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AUTHOR INDEX
OF
Mathematical Reviews
1965–1972

Volumes 29–44

Part IV
S–Z
Key Index

AMERICAN MATHEMATICAL SOCIETY
Providence, Rhode Island
1974

International Standard Book Number 0-8218-0027-2
Library of Congress Catalog Number 42-4221

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Saad, Michel A.

(with Oliver, David A.) Linearized time dependent free surface flow in rectangular and cylindrical tanks. *Proc. Heat Transfer and Fluid Mechanics Institute*, 1964, *pp.* 81-99. *Stanford Univ. Press, Stanford, Calif.*, 1964. (J. D. Murray) 32 #691

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A generalized Lebesgue covering theorem. *Duke Math. J.* 29 (1962), 539-542. (E. Nunnally) 29 #5223

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A decision problem for finite groupoids. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 819-820. (D. A. Robinson) 38 #4594

A comment on a paper by Evans. *Z. Math. Logik Grundlagen Math.* 15 (1969), 97-100. (S. Comer) 39 #4309

On some classes of point algebras. *Comment. Math. Univ. Carolinae* 12 (1971), 33-36. (S. M. Yusuf 44 #357

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(with Bablojan, A. A.) Two problems on the equilibrium of a rectangular parallelepiped with mixed boundary conditions. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 6, 27-46. (P. P. Teodorescu) 30 #5551

Saakjan, Š. N.

Theory of resolvents of a symmetric operator with infinite defect numbers. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 41 (1965), 193-198. (G. Biriuk) 33 #4684

(with Kreĭn, M. G.) Certain new results in the theory of resolvents of Hermitian operators. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 1269-1272. (R. C. Gilbert) 34 #3325

(with Kreĭn, M. G.) The resolvent matrix of a Hermitian operator and the characteristic functions connected with it. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 3, 103-104. (V. Istrăţescu) 43 #962

Šaanova, A. N.

Reflection of "zero sound" from a rigid wall. *Ž. Èksper. Theoret. Fiz.* 46 (1964), 2052-2062 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1384-1390. (J. A. McLennan) 31 #5615

Saari, Donald Gene

(with Pollard, Harry) Singularities of the n-body problem. I. *Arch. Rational Mech. Anal.* 30 (1968), 263-269. (P. Havas) 37 #7118

Some large O nonlinear Tauberian theorems. *Proc. Amer. Math. Soc.* 21 (1969), 459-462. (F. P. Cass) 39 #4557

Power series solutions. *Celestial Mech.* 1 (1969/70), 331-342. (E. Rabe) 41 #2099

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(with Pollard, Harry) Escape from a gravitational system of positive energy. *Celestial Mech.* 1 (1969/70), 347-350. (F. Nahon) 41 #6438

(with Pollard, Harry) Singularities of the n-body problem. II. *Inequalities*, II *(Proc. Second Sympos., U. S. Air Force Acad., Colo.*, 1967*), pp.* 255-259. *Academic Press, New York*, 1970. (C. Marchal) 43 #3586

Stability in incompressible systems. *Indiana Univ. Math. J.* 20 (1970/71), 975-981. (C. R. Putnam) 43 #642

(with Pollard, Harry) An elementary Tauberian theorem of nonlinear type. *Proc. Amer. Math. Soc.* 24 (1970), 593-594. (V. Ganapathy Iyer) 40 #4399

Expanding gravitational systems. *Trans. Amer. Math. Soc.* 156 (1971), 219-240. (C. Marchal) 43 #1482

Saarniit, I.

(with Tamme, È.) On the a posteriori error estimate for approximate solutions of linear differential equations. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 216-230. (P. J. Laurent) 34 #8651

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Über die Positionsdarstellung der Ordnungszahlen der Cantorschen zweiten Zahlenklasse. *Math. Z.* 100 (1967), 396-413. (L. Gillman) 37 #6187

Die kritischen Zahlen höherer Ordnung innerhalb der zweiten Cantorschen Zahlenklasse. *Math. Ann.* 178 (1968), 173-183. (E. Harzheim) 38 #1004

Eine konstruktive Darstellung für die Richtigkeit der Kontinuumshypothese. *Math. Ann.* 178 (1968), 335-353. (A. Máté) 39 #2631

Ein Zeichensystem für die Darstellung der transfiniten Ordnungszahlen der zweiten Zahlenklasse. *Z. Math. Logik Grundlagen Math.* 14 (1968), 321-328. (E. C. Milner) 39 #72

Saas, D. See Szász, Domokos.

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Numerical solution of the equation of propagation of a plastic radial wave. (Russian) *Voprosy Vyčisl. Mat. Tehn. Vyp.* 5 (1965), 65-71. 33 #5196

Saaty, Thomas L.

* (with Bram, Joseph) Nonlinear mathematics. *McGraw-Hill Book Co., New York*, 1964. xv + 381 *pp.* (W. H. Fleming) 29 #2103

The minimum number of intersections in complete graphs. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 688-690. (W. Moser) 29 #4045

Stochastic network flows: Advances in networks of queues. (With discussion) *Proc. Sympos. Congestion Theory (Chapel Hill, N. C.*, 1964*), pp.* 86-107. *Univ. North Carolina Press, Chapel Hill, N. C.*, 1965. (G. Newell) 32 #8413

* Элементы теории массового обслуживания и ее приложения. (Russian) [Elements of queueing theory and its applications] Translated from the English by E. G. Kovalenko. Edited by I. N. Kovalenko and R. D. Kogan. Introduction by Academician B. V. Gnedenko. *Izdat. "Sovet. Radio", Moscow*, 1965. 510 *pp.* (Editors) 33 #3375

* (with Busacker, Robert G.) Finite graphs and networks: An introduction with applications. *McGraw-Hill Book Co., New York-Toronto-London-Sydney*, 1965. xiv + 294 *pp.* (Editors) 35 #79

(with Suzuki, G.) A nonlinear programming model in optimum communication satellite use. *SIAM Rev.* 7 (1965), 403-408. (H. Künzi) 32 #1019

Seven more years of queues. A lament and a bibliography. *Naval Res. Logist. Quart.* 13 (1966), 447-476. (Editors) 34 #3679

* Modern nonlinear equations. *McGraw-Hill Book Co., New York-Toronto, Ont.-London*, 1967. xv + 473 *pp.* (J. Kolomý) 36 #1249

Two theorems on the minimum number of intersections for complete graphs. *J. Combinatorial Theory* 2 (1967), 571-584. (J. W. Moon) 35 #2796

Remarks on the four color problem: The Kempe catastrophe. *Math. Mag.* 40 (1967), 31-36. (S. Lin) 36 #75

* Mathematical models of arms control and disarmament: Application of mathematical structures in politics. *Publications in Operations Research, No.* 14. *John Wiley & Sons, Inc., New York-London-Sydney*, 1968. ix + 190 *pp.* (M. J. Beckmann) 39 #5128

On nonlinear optimization in integers. *Naval Res. Logist. Quart.* 15 (1968), 1-22. (R. W. Cottle) 38 #920

Symmetry and the crossing number for complete graphs. *J. Res. Nat. Bur. Standards Sect. B* 73B (1969), 177-186. (E. M. Palmer) 41 #6715

Saavedra, Igor

(with Giambiagi, J. J.) Causality and analyticity in non-relativistic scattering. *Nuclear Phys.* 46 (1963), 413-416. (John G. Taylor) 31 #1914

(with López, C. A.) Analyticity of the Jost functions for the Coulomb potential in the complex angular momentum plane. *Nuclear Phys.* 53 (1964), 519-528. (V. de Alfaro) 29 #6820

(with Marx, Egon) Massless fermions in two-dimensional electrodynamics. *Nuclear Phys.* 60 (1964), 337-342. (S. Deser) 31 #3045

(with Power, E. A.) Non-Linear interactions, causality and the R-matrix. *Proc. Cambridge Philos. Soc.* 60 (1964), 935-938. (J. W. Moffat) 29 #6837

Foldy-Wouthuysen and Lorentz transformations. *Nuclear Phys.* 74 (1965), 677-682. (Roland Good, Jr.) 32 #8719

Identities from the Lippmann-Schwinger equation and the Ehrenfest's theorem in scattering theory. *Phys. Lett.* 19 (1965), 326-327. (B. A. Lippmann) 33 #2165

Proper time formulation of the Dirac electron theory. *Nuclear Phys.* 77 (1966), 673-679. (Author's summary) 32 #7031

(with López, C. A.) Completeness and dispersion relations in the complex angular momentum plane. *Nuclear Phys.* 87 (1966), 65-72. (A. O. Barut) 34 #3901

Saavedra, Neantro. See Saavedra Rivano, Neantro.

Saavedra Rivano, Neantro

Qualitative and quantitative aspects of the theory of optimal processes. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 3 (1965), 149-188. (E. O. Roxin) 34 #7258

Fibered categories and systems of categories. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 4 (1966), 109-117. (J. Duskin) 38 #4539

Représentations linéaires de schémas en groupes affines. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A258-A261. (P. Abellanas) 44 #228

$\otimes$-catégories et dualité de Tannaka. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A389-A392. (P. Abellanas) 44 #1673

Şabac, I. Gh.

* Matematici speciale. Vol. II. (Romanian) [Special mathematics. Vol. II] *Editura Didactică si Pedagogică, Bucharest*, 1965. 644 *pp.* (A. A. Armendáriz) 35 #5160

Şabac, Mihaela

On fields of rational functions of an algebraic variety. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 235-238. (J. W. S. Cassels) 34 #7512

The derived functors of an additive functor. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 965-972. (Author's summary) 42 #4613

Şabac, Mihai

$\mathfrak{S}$-topologies compatible with the structure of a vector space. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 617-619. 33 #547

Composable families of distributions and Fourier transforms. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 607-613. (G. Doetsch) 33 #4595

A characterization of locally convex topologies for which bounded linear mappings are continuous. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1277-1279. (Editors) 34 #3286

Une caractérisation des topologies localement convexes dans lesquelles les applications linéaires et bornées sont continues. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 345-348. (Ky Fan) 33 #6352

Sur la structure des opérateurs linéaires et continus sur quelques espaces localement convexes qui interviennent dans la théorie des distributions. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1095-1106. (G. Doetsch) 36 #4363

On the structure of linear continuous operators defined on $\mathcal{D}'$ with values in $\mathcal{D}'$, which leave invariant the linear subspace of distributions defined for locally integrable functions. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 1193-1202. (N. Tiţa) 43 #2546

On the structure of maximal ideals of an algebra of bounded functions. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 1203-1206. (I. Suciu) 42 #6621

Une généralisation du théorème de Lie. *Bull. Sci. Math.* (2) 95 (1971), 53-57. (S. Tôgô) 43 #6275

Šabad, A. E.

Coulomb Regge poles in quantum electrodynamics. *Nuclear Phys.* 74 (1965), 629-641. (T. Regge) 32 #8796

Sabadaš, N. G.

(with Koval′, V. N.; Litvinov, V. V.; Rjakin, O. M.) Questions of synthesis of parallel decoding schemes for correcting codes. (Russian) *Problems in the Theory of Electronic Computing Machines (Proc. Sem., Kiev, 1968), No. 2 (Russian), pp.* 51-79. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (R. N. Goss) 39 #6673

(with Beljavskiĭ, V. L.) Some theorems of symmetric disjunctive decomposition. (Russian) *Problems in the Theory of Electronic Computing Machines (Proc. Sem., Kiev, 1968), No.* 2 *(Russian), pp.* 41-50. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (A. A. Mullin) 41 #8206

Sabadoš, Ĭ. See Szabados, J.

Sabaev, E. F.

(with Postnikov, I. S.) An application of Jakubovič's method of matrix inequalities to the investigation of the stability of certain systems with distributed parameters. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 11 (1968), 343-352. (C. Corduneanu) 38 #1927

Stability of the equilibrium state of an equation with first order deviating argument. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 12 (1969), 334-340. (J. K. Hale) 44 #5587

Saban, Giacomo

(with Arf, Cahit) Due dimostrazioni elementari del teorema di Cartan e Dieudonné. *Riv. Mat. Univ. Parma* (2) 6 (1965), 169-223. (G. B. Seligman) 36 #1467

Šabanov, L. A.

On a mixed problem of the elastic equilibrium of a circular ring. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 2 (51), 105-110. (J. L. Nowinski) 33 #6911.

Šabat, A. B.

The removability of level sets for solutions to elliptic equations. *Dokl. Akad. Nauk SSSR* 160 (1965), 1032-1035 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 264-267. (E. F. Beckenbach) 33 #2942

On a property of solutions of elliptic equations of second order. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 303-305. (J. Kadlec) 33 #6128

Analogue of a theorem of Radó-Cartan for the solutions of elliptic equations. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1304-1307. (P. C. Fife) 33 #7690

(with Žiber, A. V.) The Cauchy problem for the nonlinear Schrödinger equation. (Russian) *Differencial'nye Uravnenija* 6 (1970), 137-146. (K. Kumar) 40 #8378

A generalized Fourier transform and asymptotic behavior of the solutions of the telegrapher's equation. (Russian) *Differencial'nye Uravnenija* 7 (1971), 157-165. (P. Talpalaru) 43 #6666

Šabat, B. V.

Extremal problems of the theory of quasiconformal mappings in space. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk, 1963), pp.* 61-64. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (P. Caraman) 34 #6083

(with Rešetnjak, Ju. G.) Quasiconformal transformations in space. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 672-680. *Izdat. "Nauka", Leningrad,* 1964. (F. W. Gehring) 37 #1594

* (with Lavrent′ev, M. A.) Методы теории функций комплексного переменного. (Russian) [Methods of the theory of functions of a complex variable] Third corrected edition. *Izdat. "Nauka", Moscow,* 1965. 716 *pp.* 35 #344

* (with Lavrent′ev, M. A.) Methoden der komplexen Funktionentheorie. Übersetzung und wissenschaftliche Redaktion von Udo Pirl, Reiner Kühnau und Lothar Wolfersdorf. Mathematik für Naturwissenschaft und Technik, Band 13. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1967. x + 846 *pp.* (Editors) 35 #345

(See also Hörmander, Lars, 39 #471 and Ahlfors, Lars V., 39 #4384)

On Hilbert's twenty-second problem. (Russian) *Hilbert's problems (Russian), p.* 224. *Izdat. "Nauka", Moscow,* 1969. (W. H. Simons) 41 #2003

(with Aleksandrov, P. S.; Ovsjannikov, L. V.) The mathematical work of M. A. Lavrent′ev. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 6(156), 9-28. (J. Burlak) 44 #5202

Sabat, J. B.

Note on an application of the δ-function in the representation of solutions of algebraic equations. *Canad. Math. Bull.* 10 (1967), 735-738. (F. Rosati) 38 #465

Sabatier, Pierre C.

Interpolation des fonctions d'onde dans le plan complexe du moment angulaire. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A788-A790. (A. E. A. Warburton) 34 #4714

Asymptotic properties of the potentials in the inverse-scattering problem at fixed energy. *J. Mathematical Phys.* 7 (1966), 1515-1531. (T. Regge) 34 #7144

Analytic properties of a class of potentials and the corresponding Jost functions. *J. Mathematical Phys.* 7 (1966), 2079-2091. (T. Regge) 36 #1159

General method for the inverse scattering problem at fixed energy. *J. Mathematical Phys.* 8 (1967), 905-918. (T. Regge) 35 #7662

Interpolation formulas in the angular momentum plane. *J. Mathematical Phys.* 8 (1967), 1957-1972. (R. G. Newton) 36 #6190

New tool for scattering studies. *J. Mathematical Phys.* 12 (1971), 1303-1326. (N. Nakanishi) 44 #1344

Sabbadini, A.

(with Lanz, L.; Prosperi, G. M.) Time scales and the problem of measurement in quantum mechanics. (Italian summary) *Nuovo Cimento B* (11) 2 (1971), 184-192. (J. M. Jauch) 43 #8320

Sabbagh, Gabriel

Un théorème de plongement en algèbre. *Bull. Sci. Math.* (2) 92 (1968), 49-52. (B. A. F. Wehrfritz) 38 #136

Les univers et l'axiome de fondation. *Arch. Math. (Basel)* 20 (1969), 449-452. (A. Máté) 40 #5438

(with Haddad, Labib) Sur une extension des nombres de Ramsey aux ordinaux. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1165-A1167. (Authors' summary) 40 #47

(with Haddad, Labib) Calcul de certains nombres de Ramsey généralisés. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1233-A1234. (Authors' summary) 40 #1285

(with Haddad, Labib) Nouveaux résultats sur les nombres de Ramsey généralisés. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1516-A1518. (Authors' summary) 40 #1286

How not to characterize the multiplicative groups of fields. *J. London Math. Soc.* (2) 1 (1969), 369-370. (A. Shafaat) 39 #5671

(with Eklof, Paul) Model-completions and modules. *Ann. Math. Logic* 2 (1970/71), *no.* 3, 251-295. (I. L. Gaal) 43 #3105

(with Boffa, Maurice) Sur l'axiome Ü de Felgner. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A993-A994. (F. R. Drake) 41 #3265

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Embedding problems for modules and rings with application to model-companions. *J. Algebra* 18 (1971), 390-403. (S. Elliger) 43 #6259

Endomorphisms of finitely presented modules. *Proc. Amer. Math. Soc.* 30 (1971), 75-78. (R. E. MacRae) 44 #248

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Variational problems with lags. *J. Optimization Theory Appl.* 3 (1969), 34-51. (H. S. P. Grässer) 41 #2504

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Metrizability of spaces with countably based closed sets. *Portugal. Math.* 29 (1970), 1-3. (D. R. Traylor) 44 #2200

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(with Levine, Norman) On the product of real valued uniformly continuous functions in metric spaces. *Amer. Math. Monthly* 72 (1965), 20-28. (T. A. Botts) 30 #1498

Sabharwal, C. L.

Multiplication of singularity functions by discontinuous functions in Schwartz distribution theory. *SIAM J. Appl. Math.* 18 (1970), 503-510. (J. N. Pandey) 41 #5965

Sabidussi, Gert

Graph multiplication. *Math. Z.* 72 (1959/60), 446-457. (S. Marcus (Zbl 93, 376)) 35 #80

Infinite Euler graphs. *Canad. J. Math.* 16 (1964), 821-838. (O. Ore) 29 #6489

Vertex-transitive graphs. *Monatsh. Math.* 68 (1964), 426-438. (H. A. Gindler) 31 #91

Sequences of Euler graphs. *Canad. Math. Bull.* 9 (1966), 177-182. (O. Ore) 33 #5521

The centrality index of a graph. *Psychometrika* 31 (1966), 581-603. (W. T. Tutte) 34 #5705

Existenz und Struktur selbstadjungierter Graphen. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 121-125. *Teubner, Leipzig,* 1968. (W. Moser) 39 #4041

Existence and structure of self-adjoint graphs. *Math. Z.* 104 (1968), 257-280. (C. St. J. A. Nash-Williams) 37 #2629

Sabinin, L. V.

Isoinvolutive decompositions of Lie algebras. *Dokl. Akad. Nauk SSSR* 165 (1965), 1003-1006 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 1554-1557. (G. B. Seligman) 33 #5788

Principal invomorphisms of Lie algebras. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 31-33. (S. Moran) 36 #224

Involutive sums of Lie algebras. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 14 (1968), 94-113. (K. Strambach) 40 #7392

Involutory duality in simple compact Lie algebras. (Russian) *Trudy Geometr. Sem.* 2 (1969), 277-298. (K. Strambach) 41 #8596

The classification of trisymmetric spaces. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 518-520. (A. Goetz) 42 #3714

Sabinina, E. S.

On a class of quasilinear parabolic equations, not solvable for the time derivative. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1074-1100. (K. Rektorys) 32 #7964

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A remark on a theorem of Fréchet. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 1, 3-5. (J. N. Younglove) 37 #3324

(with Stecenko, V. Ja.) An existence theorem for the second eigenvector of a linear positive operator. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 14 (1971), *no.* 3, 9-12. (H. E. Lacey) 44 #4549

Sabirov, M. A.

(with Gajubov, G. N.) Studies in geometry. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 41-44. (Editors) 43 #1801

Sabirov, T.

The question of stability of small periodic solutions. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 755-757. (W. A. Coppel) 33 #4389

(with Esajan, A. R.) The question of convergence of the averaging method of functional corrections. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 1, 8-12. (W. V. Petryshyn) 34 #1893

On the question of perturbation of eigenvalues and eigenvectors of linear operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 3, 3-6. (R. C. Gilbert) 35 #3478

(with Burd, V. S.) The stability of branching almost periodic solutions of certain systems of differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 991-993. (C. Corduneanu) 36 #5444

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(with Imomnazarov, B.; Stecenko, V. Ja.) The spectral properties of certain classes of linear positive operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 1, 6-9. (H. Triebel) 37 #5709

(with Nazarov, F.; Muhamadiev, È.) A certain fixed point principle. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 4, 11-13. (Hiroshi Fujita) 39 #7481

(with Muhamadiev, È.; Stecenko, V. Ja.) A certain class of nonnegative kernels. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 12, 3-6. (P. Saworotnow) 40 #6309

(with Muhamadiev, È.; Stecenko, V. Ja.) A certain class of infinite matrices. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 1, 3-6. (P. Saworotnow) 40 #6310

(with Nazarov, F.) The nonemptiness of the point spectrum of a permutable operator. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik SSR* 12 (1969), *no.* 2, 3-6. (E. Gerlach) 41 #854

(with Nazarov, F.) The preservation of the point spectrum of a permutable operator under small perturbations. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 3, 3-5. (E. Gerlach) 41 #855

Geometric properties of certain special cones in a Banach space. (Russian) *Mat. Zametki* 5 (1969), 63-70. (Á. Császár) 39 #6051

Periodic solutions of differential equations that contain a small parameter. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik, SSR* 13 (1970), *no.* 11, 9-12. (J. Jarník) 44 #1880

(with Raupov, I. Š.) On the question of the bifurcation of the periodic solutions of differential equations with two parameters. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1614-1620. (W. S. Loud) 44 #4293

Asymptotic estimates of the Green's function of singularly perturbed differential operators with almost periodic coefficients. (Russian) *Differencial'nye Uravnenija* 7 (1971), 934-936, 952. (P. Talpalaru) 44 #5821

Sabirova, H.

The solutions of linear differential equations that are holomorphic with respect to a parameter. (Russian) *Akad. Nauk Uzbek. SSR Trudy Inst. Mat. No.* 26 (1962), 143-159. (Ju. Bogdanov (RŽMat 1963 #5 B196)) 42 #3337

The expansion of Hermite, Laguerre and Legendre functions in powers of the index. (Russian) *Akad. Nauk Uzbek. SSR Trudy Inst. Mat. No.* 26 (1962), 161-174. (A. Haradze (RŽMat 1963 #5 B53)) 42 #3327

Sabišev, D. M.

On boundary properties in the Orlicz metrics of functions of several complex variables. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 100-101. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (J. Albrycht) 33 #3090

Sabitov, I. H.

A boundary-value problem with linear conjugation. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 262-274. (J. F. Heyda) 29 #2401

The local structure of Darboux surfaces. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1001-1004. (B. Cenkl) 33 #4804

Certain results on infinitesimal deformations of surfaces "in the small" and "in the large". (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1256-1258. (B. Cenkl) 33 #4805

A condition for rigidity of composite surfaces. (Russian) *Mat. Zametki* 2 (1967), 105-114. (W. J. Firey) 35 #4863

A minimal surface as the rotation graph of a sphere. (Russian) *Mat. Zametki* 2 (1967), 645-656. (A. V. Pogorelov) 36 #7033

Minimal surfaces with certain boundary conditions. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 368-389. (R. A. Kordzadze) 37 #6846

Sablatash, Mike

Towards a unified theory for the approximation of specified flat bands by network functions. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 796-805. *Univ. Illinois, Urbana, Ill.,* 1965. (Author's summary) 39 #6677

Ideal transmission functions as Schwarz-Christoffel transformations. *IEEE Trans. Circuit Theory* CT-16 (1969), 550-553. (B. J. Leon) 41 #3169

Šablickaja, L. N.

(with Kreĭn, S. G.) Stability of difference schemes for the Cauchy problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 648-664. (V. Thomée) 33 #8118

Sabouni, R.

Mappings of linear vector spaces induced by a transformation matrix and its applications. *Internat. J. Control* (1) 10 (1969), 511-528. (Author's summary) 40 #3929

Šabozov, O. Š.

A generalization of S. N. Bernšteĭn's polynomials. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 2, 7-11. (John T. Scheick) 33 #4538

(with Videnskiĭ, V. S.) Generalized polynomials of S. N. Bernšteĭn with respect to the system of functions $\{(1 + x/\lambda_n)^{-1}\}$. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 3, 10-13. (G. G. Lorentz) 35 #3330

The approximation of functions of two variables by generalized S. N. Bernstein polynomials in the function system $\{(1 + \lambda_n^{-1}x)^{-1}(1 + \mu_m^{-1}y)^{-1}\}$. (Russian. Tadjiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 6, 11-14. (M. W. Müller) 36 #6843

An estimate of the error of approximation of a function of two variables by generalized S. N. Bernšteĭn polynomials in the systems of functions $\{(1 + \frac{x}{\lambda})^{-n}(1 + \frac{y}{\mu})^{-m}\}$. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 9, 3-6. (M. Tomić) 36 #3021

Approximation of summable functions by generalized Bernstein polynomials with respect to the system of functions $\{(1 + x/\lambda_n)^{-1}\}$. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Tehn. i Him. Nauk* 1967, *no.* 1 (23), 18-24. (S. Fempl) 36 #579

Determination of the asymptotic form of the approximation of functions by positive linear operators of the type of S. N. Bernšteĭn's polynomials. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 4, 3-6. (G. G. Lorentz) 40 #4643

Representation of asymptotic approximation of functions of two variables by linear positive operators of S. N. Bernšteĭn's polynomial type. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk* 1969, *no.* 3(33), 9-15. (V. Veselinov) 43 #7832

An estimate of the approximation of functions by rational operators of the S. N. Bernšteĭn polynomial type. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 13 (1970), *no.* 7, 3-6. (V. A. Popov) 44 #1975

Certain properties of rational operators of the S. N. Bernšteĭn polynomial type. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk* 1970, *no.* 1(35), 9-19. (Bl. Sendov) 44 #1976

Sabra, A. I.

The astronomical origin of Ibn al-Haytham's concept of experiment. *Actes XII^{e} Congrès Internat. d'Histoire des Sciences (Paris, 1968), Tome III A: Science et Philosophie: Antiquité, Moyen Âge, Renaissance, pp.* 133-136. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (E. B. Allen) 43 #1791

Sabrejko, P. P. See Zabreĭko, P. P.

Šabunin, M. I.

Determination of the convergence class of interpolation series for the Abel-Gončarov and Gel′fond problems. (Russian) *Dokl. Akad. Nauk SSSR* 149 (1963), 272-275. (R. G. Langebartel) 29 #3802

* (with Evgrafov, M. A.; Sidorov, Ju. V.; Fedorjuk, M. V.; Bežanov, K. A.) Сборник задач по теории аналитических функций. (Russian) [A collection of problems in the theory of analytic functions] *Izdat. "Nauka", Moscow,* 1969. 387 *pp.* (Editors) 41 #7075

An asymptotic estimate for the coefficients of the expansion in a certain system of analytic functions, and its application to interpolation polynomials in the generalized moments problem. (Russian) *Dokl. Akad. Nauk SSSR* 202 (1972), 48-50. (C. Tanaka) 44 #6945

Šaburakov, V. S.

Linear complexes of planes in five-dimensional and six-dimensional projective space. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 363-386. (B. Rozenfel′d) 41 #2515

Linear complexes of planes in six-dimensional projective space. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 387-391. (B. Rozenfel′d) 41 #2516

Saburova, T. N.

Extension of functions, and the absolute convergence of certain function series. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 3 (106), 72-80. (C. C. Graham) 44 #5722

Imbedding theorems for certain classes of continuous functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser.* I *Mat. Meh.* 26 (1971), *no.* 3, 20-29. (L. Losonczi) 43 #6711

Sabziev, N. M.

Approximations of periodic functions by trigonometric polynomials in a generalized Lebesgue space. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Mat. Tehn. Nauk* 1963, *no.* 3, 31-39. (M. Tomić) 30 #394

A connection between best approximations of periodic functions by trigonometric polynomials in a generalized Lebesgue space. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1964, *no.* 4, 27-34. (M. Tomić) 30 #2279

On a certain extremal problem in the class of trigonometric polynomials. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian), pp.* 265-272. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (H. J. Landau) 34 #550

Extremal properties of analytic functions in a strip of the complex plane. (Russian) *Special Problems of Functional Analysis and their Applications to the Theory of Differential Equations and the Theory of Functions (Russian), pp.* 143-155. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. (J. G. Krzyż) 39 #4388

The approximations of functions of a complex variable in a given domain. (Russian. Azerbaijani summary) *Special Questions on Differential Equations and Function Theory (Russian), pp.* 102-108. *Izdat. "Èlm", Baku,* 1970. (L. Zalcman) 42 #4780

Extremal properties of entire functions of finite order and finite type in a given angle of the complex plane. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1970, *no.* 4, 37-44. (I. N. Baker) 44 #1816

Šac, È. M.

Best cubature formula for a certain class of functions. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 5, 72-77. (J. B. Butler, Jr.) 44 #2345

(with Levin, M. I.) Construction of a certain best cubature formula. (Russian. English summary) *Tallin. Polütehn. Inst. Toimetised Seer. A No.* 293 (1970), 15-22. (J. W. Schmidt) 44 #2344

Best quadrature formula for the function class $W_{Lq}^{(4)}$ (*M*; 0, 1). (Russian. English summary) *Tallin. Polütehn. Inst. Toimetised Seer. A No.* 293 (1970), 27-34. (T. Bojanov) 44 #699

A certain best cubature formula that contains the partial derivatives of the function. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 3, 68-72. (J. T. Scheick) 44 #5676

Sačenkov, A. V.

On a method of solving nonlinear problems of stability of thin shells. (Russian) *Nonlinear Theory of Plates and Shells (Russian), pp.* 3-41. *Izdat. Kazan. Univ., Kazan,* 1962. 32 #3355

Some complex equations in the theory of stability of thin shells. (Russian) *Nonlinear Theory of Plates and Shells (Russian) pp.* 42-50. *Izdat. Kazan. Univ., Kazan,* 1962. (Z. Kączkowski) 32 #6763

Sachan, R. S.

On the nonlinear stochastic programming problems. *Cahiers Centre Études Recherche Opér.* 10 (1968), 84-99. (R. L. Graves) 40 #6960

Stochastic programming problems under risk and uncertainty. *Cahiers Centre Études Recherche Opér.* 12 (1970), 211-232. (G. Tintner) 43 #1634

Sachdeva, S. K.

(with Mishra, R. S.) Flow behind two-dimensional unsteady shocks in conducting gases. *Tensor (N.S.)* 18 (1967), 1-7. (R. P. Kanwal) 35 #3961

Sachenkov, A. V. See Sačenkov, A. V.

Šachl, Vladimír

Self-consistent approach to low-energy resonance. Resonances of *πN* system. *Czechoslovak J. Phys. Sect. B* 15 (1965), 1-9. (L. A. P. Balázs) 32 #6935

Sachs, A. J.

(with Aaboe, Asger) Some dateless computed lists of longitudes of characteristic planetary phenomena from the late-Babylonia period. *J. Cuneiform Studies* 20 (1966), *no.* 1, 1-33. (Olaf Schmidt) 35 #4069

(with Asboe, Asger) Two lunar texts of the Achaemenid period from Babylon. *Centaurus* 14 (1969), 1-22. (5 *plates)* (W. Petri) 41 #5142

Sachs, David

Reciprocity in matroid lattices. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 66-79. (I. G. Amemiya) 34 #2508

Graphs, matroids, and geometric lattices. *J. Combinatorial Theory* 9 (1970), 192-199. (Author's summary) 41 #6716

Geometric mappings on geometric lattices. *Canad. J. Math.* 23 (1971), 22-35. (B. Artmann) 43 #82

Sachs, Hans

Die Strahlflächen mit durchwegs ebenen Orthogonaltrajektorien der Erzeugenden. *Arch. Math. (Basel)* 21 (1970), 437-445. (F. Semin) 43 #1057

Über die Kurven konstanten Striktionsabstandes auf windschiefe Flächen. *Monatsh. Math.* 74 (1970), 445-461. (P. Scherk) 43 #392

Die Strahlflächen, auf denen die Kurven konstanten Striktionsabstandes durchwegs Böschungslinien sind. *J. Reine Angew. Math.* 250 (1971), 56-66. (H. Brauner) 44 #4650

Die Strahlflächen, auf denen die Orthogonaltrajektorien der Erzeugenden Böschungslinien sind. *Math. Ann.* 191 (1971), 44-52. (W. F. Pohl) 44 #928

Sachs, Horst

(with Erdős, Paul) Reguläre Graphen gegebener Taillenweite mit minimaler Knotenzahl. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 251-257. (W. T. Tutte) 29 #2797

On regular graphs with given girth. *Theory of Graphs and its Applications (Proc. Sympos. Smolenice, 1963), pp.* 91-97. *Publ. House Czechoslovak Acad. Sci., Prague,* 1964. (T. A. Brown) 30 #3467

Simultane Überlagerung gegebener Graphen. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 415-427 (1965). (J. W. Moon) 32 #4037

Abzählung von Wäldern eines gegebenen Typs in regulären und biregulären Graphen. I. *Publ. Math. Debrecen* 11 (1964), 74-84. (W. T. Tutte) 30 #2490

Beziehungen zwischen den in einem Graphen enthaltenen Kreisen und seinem charakteristischen Polynom. *Publ. Math. Debrecen* 11 (1964), 119-134. (W. T. Tutte) 30 #2491

Abzählung von Wäldern eines gegebenen Typs in regulären und biregulären Graphen. II. *Publ. Math. Debrecen* 12 (1965), 7-24. (W. T. Tutte) 32 #5549

Bemerkung zur Konstruktion zyklischer selbstkomplementärer gerichteter Graphen. *Wiss. Z. Techn. Hochsch. Ilmenau* 11 (1965), 161-162. (W. T. Tutte) 33 #5522

Über Teiler, Faktoren und charakteristische Polynome von Graphen. I. *Wiss. Z. Techn. Hochsch. Ilmenau* 12 (1966), 7-12. (F. Harary) 33 #2571

Construction of non-Hamiltonian planar regular graphs of degrees 3, 4 and 5 with highest possible connectivity. (French summary) *Theory of Graphs (Internat. Sympos., Rome, 1966), pp.* 373-382. *Gordon and Breach, New York; Dunod, Paris,* 1967. (T. A. Brown) 36 #3671

(See also Beiträge zur Graphentheorie, 39 #2645)

Über Teiler, Faktoren und charakteristische Polynome von Graphen. II. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 405-412. (J. W. Moon Zbl 162, 278)) 39 #6774

Ein von Kozyrev und Grinberg angegebener nicht-hamiltonscher kubischer planarer Graph. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 127-130. *Teubner, Leipzig,* 1968. (W. G. Brown) 39 #5403

(with Schäuble, Manfred) Konstruktion von Graphen mit gewissen Färbungseigenschaften. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 131-136. Teubner, Leipzig, 1968. (W. Imrich) 40 #1304

Finite graphs (Investigations and generalizations concerning the construction of finite graphs having given chromatic number and no triangles). *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 175-184. *Academic Press, New York,* 1969. (C. Berge) 42 #2980

(with Finck, H.-J.) Über eine von H. S. Wilf angegebene Schranke für die chromatische Zahl endlicher Graphen. *Math. Nachr.* 39 (1969), 373-386. (J. W. Moon) 40 #60

(with Petersdorf, M.) Über Spektrum, Automorphismengruppe und Teiler eines Graphen. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 123-128. (J. Turner) 42 #4447

On the Berge conjecture concerning perfect graphs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta.,* 1969*), pp.* 377-384. *Gordon and Breach, New York,* 1970. (M. Las Vergnas) 42 #7549

* Einführung in die Theorie der endlichen Graphen. Teil I. Unter Mitarbeit von H.-J. Finck, H. Hutschenreuther, E. Kaiser, R. Lang, M. Schäuble, H.-J. Voß und H. Walther. Mathematisch-Naturwissenschaftliche Bibliothek, 43. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1970. 182 *pp.* (W. Moser) 43 #4712

Sachs, Mendel

* Solid state theory. *McGraw-Hill Book Co., New York-London-Toronto,* 1963. xii + 350 *pp.* (T. Neugebauer) 30 #1823

A new approach to the theory of fundamental processes. *British J. Philos. Sci.* 15 (1964 65), 213-243. (H. A. Buchdahl) 31 #1904

On spinor connection in a Riemannian space and the masses of elementary particles. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 81-92. (S. Deser) 32 #5331

(with Schwebel, S. L.) Errata: A self-consistent field theory of quantum electrodynamics. *Nuovo Cimento Suppl.* (1) 2 (1964), 342. (Editors) 32 #2073

The mass of a neutrino from spinor connection in a Riemannian space. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 888-896. (S. Datta Majumdar) 33 #7093

Black body radiation from a self-consistent field theory of quantum electrodynamics. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 976-988. (R. L. Ingraham) 33 #2225

The geodesic equation and planetary motion from a quaternion representation of general relativity. (Italian and Russian summaries) *Nuovo Cimento B* (10) 66 (1970), 137-156. (R. Behari) 42 #8861

Sachs, Rainer K.

Distance and the asymptotic behaviour of waves in general relativity. *Recent developments in general relativity, pp.* 395-407. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2003

Gravitational radiation. *Relativité, Groupes et Topologie (Lectures, Les Houches,* 1963 *Summer School of Theoret. Phys., Univ. of Grenoble), pp.* 521-562. *Gordon and Breach, New York,* 1964. (P. Roman) 33 #3746

A lemma on vacuum gravitational fields that permit a hypersurface-orthogonal Killing vector. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 340-342. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (K. J. Le Couteur) 34 #3964

(with Kristian, J.) Observations in cosmology. *Astrophys. J.* 143 (1966), 379-399. (W. Davidson) 34 #2324

(with Kantowski, R.) Some spatially homogeneous anisotropic relativistic cosmological models. *J. Mathematical Phys.* 7 (1966), 443-446. (A. Raychaudhuri) 32 #7213

Sack, Robert A.

Treatment of the non-equilibrium theory of simple queues by means of cumulative probabilities. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 457-463. (L. Takács) 30 #639

Generalization of Laplace's expansion to arbitrary powers and functions of the distance between two points. *J. Mathematical Phys.* 5 (1964), 245-251. (PA 67, 11022) 33 #5964

Three-dimensional addition theorem for arbitrary functions involving expansions in spherical harmonics. *J. Mathematical Phys.* 5 (1964), 252-259. (PA 67, 11023) 33 #5965

Two-center expansion for the powers of the distance between two points. *J. Mathematical Phys.* 5 (1964), 260-268. (PA 67, 11024) 33 #5966

Interpretation of Lagrange's expansion and its generalization to several variables as integration formulas. *J. Soc. Indust. Appl. Math.* 13 (1965), 47-59. (I. J. Good) 31 #5950

Generalization of Lagrange's expansion for functions of several implicitly defined variables. *J. Soc. Indust. Appl. Math.* 13 (1965), 913-926. (W. P. Ziemer) 33 #4215

Factorization of Lagrange's expansion by means of exponential generating functions. *SIAM J. Appl. Math.* 14 (1966), 1-15. (W. P. Ziemer) 33 #5809

Expansions in spherical harmonics. IV. Integral form of the radial dependence. *J. Mathematical Phys.* 8 (1967), 1774-1784. (Author's summary) 42 #2258

(with Chambers, Ll. G.) Expansions in spherical harmonics. V. Solution of inverse Legendre transforms. *J. Mathematical Phys.* 11 (1970), 2197-2202. (Authors' summary) 42 #2259

Sackaja, N. S.

The approximate solution of the equation $\mu F(x,y,y') = f(x,y)$. (Russian) *Certain Problems of Applied Mathematics, No. 3 (Russian), pp.* 254-267. *Izdat. "Naukova Dumka", Kiev,* 1967. 39 #3707

Sackbrowitz, Harold B. See Sackrowitz, Harold B.

Sacker, Robert J.

A new approach to the perturbation theory of invariant surfaces. *Comm. Pure Appl. Math.* 18 (1965), 717-732. (S. P. Diliberto) 32 #6003

A perturbation theorem for invariant Riemannian manifolds. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R.,* 1965*), pp.* 43-54. *Academic Press, New York,* 1967. (A. Halanay) 36 #1784

A perturbation theorem for invariant manifolds and Hölder continuity. *J. Math. Mech.* 18 (1969), 705-762. (F. W. Wilson, Jr.) 39 #578

Sackett, Gary G.

An implicit free boundary problem for the heat equation. *SIAM J. Numer. Anal.* 8 (1971), 80-96. (J. R. Cannon) 44 #654

Sackfield, A.

The Riemann tensor and stress singularities. *Proc. Cambridge Philos. Soc.* 71 (1972), 131-134. (M. Sachs) 44 #2473

Sackman, Jerome L.

(with Distefano, J. N.) On asymptotic stability of nonlinear hereditary phenomena. *Quart. Appl. Math.* 24 (1966), 133-141. (M. Mişicu) 34 #2243

(with Nickell, R. E.) Variational principles for linear coupled thermoelasticity. *Quart. Appl. Math.* 26 (1968), 11-26. (H. Parkus) 37 #7129

(with Mostaghel, N.) On the stability of Hill's equation. *J. Franklin Inst.* 289 (1970), 147-154. (Authors' summary) 41 #2150

Sackrowitz, Harold B.

Multidimensional distributions of invariant vector functions. *Indust. Math.* 17 (1967), 57-67. (E. J. Williams) 40 #6671

(with Miller, K. S.) Relationships between biased and unbiased Rayleigh distributions. *SIAM J. Appl. Math.* 15 (1967), 1490-1495. (C. G. Esseen) 38 #1714

Estimation for monotone parameter sequences: The discrete case. *Ann. Math. Statist.* 41 (1970), 609-620. (J. Kiefer) 40 #8168

(with Cohen, Arthur) Estimation of the last mean of a monotone sequence. *Ann. Math. Statist.* 41 (1970), 2021-2034. (P. K. Bhattacharya) 42 #5371

Sacks, Gerald E.

* Degrees of unsolvability. Annals of Mathematical Studies, No. 55: *Princeton University Press, Princeton, N. J.,* 1963. ix + 174 *pp.* (K. Appel) 32 #4013

The recursively enumerable degrees are dense. *Ann. of Math.* (2) 80 (1964), 300-312. (J. R. Shoenfield) 29 #3367

A maximal set which is not complete. *Michigan Math. J.* 11 (1964), 193-205. (J. R. Shoenfield) 29 #3368

(with Kreisel, G.) Metarecursive sets. *J. Symbolic Logic* 30 (1965), 318-338. (C. E. M. Yates) 35 #4097

Metarecursively enumerable sets and admissible ordinals. *Bull. Amer. Math. Soc.* 72 (1966), 59-64. (Editors) 35 #6542

Post's problem, admissible ordinals, and regularity. *Trans. Amer. Math. Soc.* 124 (1966), 1-23. (G. Kreisel) 34 #1183

Metarecursion theory. *Sets, Models and Recursion Theory (Proc. Summer School Math. Logic and Tenth Logic Colloq., Leicester, 1965), pp.* 243-263. *North-Holland, Amsterdam,* 1967. (G. Kreisel) 40 #7109

Measure-theoretic uniformity. *Bull. Amer. Math. Soc.* 73 (1967), 169-174. (S. Feferman) 35 #4098

(with Gandy, R. O.) A minimal hyperdegree. *Fund. Math.* 61 (1967), 215-223. (G. Kreisel) 37 #1246

On a theorem of Lachlan and Martin. *Proc. Amer. Math. Soc.* 18 (1967), 140-141. (P. Young) 34 #7373

Measure-theoretic uniformity. *Foundations of Mathematics (Symposium Commemorating Kurt Gödel, Columbus, Ohio, 1966), pp.* 51-57. *Springer, New York,* 1969. (F. R. Drake) 39 #4004

Measure-theoretic uniformity in recursion theory and set theory. *Trans. Amer. Math. Soc.* 142 (1969), 381-420. (S. Feferman) 40 #7108

Forcing with perfect closed sets. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif., 1967), pp.* 331-355. *Amer. Math. Soc., Providence, R. I.,* 1971. (J. R. Shoenfield) 43 #1827

}

Sacks, J. E.

(with Sorenson, H. W.) Nonlinear extensions of the fading memory filter. *IEEE Trans. Automatic Control* AC-16 (1971), 506-507. (R. N. P. Singh) 44 #7999

(with Sorenson, H. W.) Recursive fading memory filtering. *Information Sci.* 3 (1971), 101-119. (D. D. Sworder) 44 #1492

Sacks, Jerome

A note on the sequential t-test. *Ann. Math. Statist.* 36 (1965), 1867-1869. (J. Kiefer) 32 #1817

(with Ylvisaker, Donald) Designs for regression problems with correlated errors. *Ann. Math. Statist.* 37 (1966), 66-89. (E. Parzen) 33 #826

(with Ylvisaker, Donald) Designs for regression problems with correlated errors; many parameters. *Ann. Math. Statist.* 39 (1968), 49-69. (E. Parzen) 36 #3484

(with Ylvisaker, Donald) Statistical designs and integral approximation. *Proc. Twelfth Biennial Sem. Canad. Math. Congr. on Time series and Stochastic Processes; Convexity and Combinatorics (Vancouver, B. C., 1969), pp.* 115-136. *Canad. Math. Congr., Montreal, Que.,* 1970. (E. Parzen) 43 #2806

(with Ylvisaker, Donald) Designs for regression problems with correlated errors. III. *Ann. Math. Statist.* 41 (1970), 2057-2074. (E. Parzen) 42 #5418

Sacks, Louis

(with Waddill, Marcellus E.) Another generalized Fibonacci sequence. *Fibonacci Quart.* 5 (1967), 209-222. (V. M. Bhise) 37 #145

Sacksteder, Richard

Some properties of foliations. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 31-35. (K.-T. Chen) 29 #4067

On the existence of exceptional leaves in foliations of co-dimension one. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 2, 221-225. *(J. W. Smith)* 30 #4267

Foliations and pseudogroups. *Amer. J. Math.* 87 (1965), 79-102. (R. Hermann) 30 #4268

(with Schwartz, Arthur J.) Limit sets of foliations. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 201-213. (B. L. Reinhart) 32 #6489

(with Morse, Norman) Statistical isomorphism. *Ann. Math. Statist.* 37 (1966), 203-214. (L. J. Savage) 32 #8469

Degeneracy of orbits of actions of R^m on a manifold. *Comment. Math. Helv.* 41 (1966/67), 1-9. (B. L. Reinhart) 35 #3700

A note on statistical equivalence. *Ann. Math. Statist.* 38 (1967), 787-794. (D. L. Burkholder) 36 #999

(with Konijn, H. S.) Unbiased distinguishing of translation families and integrability with respect to a convolution of measures. *J. Austral. Math. Soc.* 8 (1968), 199-204. (D. R. Truax) 37 #5358

On products of experiments. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 203-211. (A. Fuchs) 39 #6427

Šačnev, V. A.

(with Bykov, D. L.) On a generalization of the method of elastic solutions. *Prikl. Mat. Meh.* 33 (1969), 290-298 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 272-280. (R. L. Fosdick) 41 #2982

On the correctness of certain problems of the membrane theory of shells of negative curvature. *Prikl. Mat. Meh.* 33 (1969), 676-687 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 654-665 (1970). (V. M. Papadopoulos) 44 #3558

Săcuiu, Ion

(with Istrăţescu, V.) Characteristic matrices and their application to the solution of a difference equation in two variables. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 40, 87-91. (Authors' summary) 30 #3316

(with Onicescu, O.) Extension of the notions of moment and coefficient of correlation to arbitrary variables. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 325-330. (E. H. Lehman, Jr.) 32 #1741

On q-differentiability and q-integrability of random functions. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 645-652. (Chr. Y. Pauc) 32 #3117

* (with Ciucu, G.; Craiu, V.) Culegere de probleme de teoria probabilităţilor. (Romanian) [A collection of problems in the theory of probability] *Editura Tehnică, Bucharest,* 1967. 494 *pp.* (M. Iosifescu) 38 #6636

(with Mărgăritescu, E.; Savu, S.) Un modèle d'analyse de la variance avec des applications à la détermination du nombre d'essais dans un laboratoire. Colloque sur les techniques de Calcul et les Calculateurs (Bucharest, 1967). *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 1, 93-100. (D. R. Brillinger) 38 #5347

(with Theodorescu, Radu) Sur l'efficacité des estimateurs. (Italian summary) *Atti. Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 9-15. (Authors' summary) 44 #3420

(with Theodorescu, R.) Über den Dispersionskoeffizienten von Lexis. (English summary) *Biometrische Z.* 11 (1969), 297-304. (Bernard Harris) 44 #6085

(with Theodorescu, R.) The variance of a random variables product and the efficiency of certain estimations. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res. No.* 4 (1969), 39-46. (D. R. Brillinger) 41 #2814

Sur la notion de fonction de corrélation d'un processus aléatoire. (English summary) *Rev. Roumaine Math. Pures Appl.* 14 (1969), 439-444. (P. M. Lee) 40 #2153

Distribution of the product of an arbitrary number of independent random variables. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 953-963. (From the author's summary) 42 #5301

A global correlation coefficient. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 623-631. (I. Olkin) 44 #1149

Sadaca, Jacques

Équations aux différences finies pour l'équation biharmonique dans le plan à l'approximation du troisième ordre. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A553-A555. 37 #3781

Sadamatsu, Takashi

On mixed problems for hyperbolic systems of first order with constant coefficients. *J. Math. Kyoto Univ.* 9 (1969), 339-361. (D. Ludwig) 41 #2219

On mixed problems for first order hyperbolic systems with constant coefficients. *Proc. Japan Acad.* 45 (1969), 686-691. (S. Cinquini) 41 #5779

Sade, Albert

Isotopies d'un groupoïde avec son conjoint. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 357-381. (H. A. Thurston) 29 #4831

Le groupe d'anti-autotopie et l'équation $Q(X,X^{-1},1) = QP^{12} = Q$. *J. Reine Angew. Math.* 216 (1964), 199-217. (R. Artzy) 29 #4832

Plusieurs problèmes non résolus de la théorie des groupes. *Mat. Vesnik* 1 (16) (1964), 161-162. (H. H. Campaigne) 33 #217

Critères d'isotopie d'un quasigroupe avec un quasigroupe demi-symétrique. *Univ. Lisboa Revista Fac. Ci. A* (2) 11 (1964/65), 121-136. (R. Artzy) 34 #1437

Quasigroupes demi-symétriques. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 133-143. (I. M. H. Etherington) 34 #2760

Quasigroupes demi-symétriques. II. Autotopies gauches. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 225-232. (I. M. H. Etherington) 34 #2761

Lacune dans l'argument qui établit la non équivalence d'un ensemble et de son booléien. *Univ. Lisboa Revista Fac. Ci. A* (2) 11, 299-301 (1965/66). 38 #1005

Quasigroupes de Cardoso et pseudogroupes de Zelmer. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 5-15. (P.-A. Grillet) 39 #348

Quasigroupes demi-symétriques. III. Constructions linéaires, *A*-maps. *Ann. Soc. Sci. Bruxelles Sér. I* 81 (1967), 5-17. (R. Artzy) 35 #5539

Quasigroupes isotopes. Autotopies d'un groupe. *Ann. Soc. Sci. Bruxelles Sér.* I 81 (1967), 231-239. (P.-A. Grillet) 38 #5978

Quasigroupes demi-symétriques. Isotopies préservant la demi-symétrie. *Math. Nachr.* 33 (1967), 177-188. (R. Artzy) 35 #5540

Autotopies d'un quasigroupe isotope à un quasigroupe demi-symétrique. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 175-179 (1967), 1-8. (P. A. Grillet) 35 #4326

Quasigroupes parastrophiques. Groupe des automorphismes gauches. *Ann. Soc. Sci. Bruxelles Sér. I* 82 (1968), 73-78. (L. Dornhoff) 38 #260

Autotopies des quasigroupes et des systèmes associatifs. *Arch. Math. (Brno)* 4 (1968), 1-23. (A. C. Choudhury) 42 #1930

Évanescence de l'argument cantorien pour le cardinal des nombres dyadiques. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 25-26. (A. Heyting) 38 #2026

(The sign } indicates an entry in the supplement.)

Échelle de l'ensemble des parties d'un ensemble dénombrable. Paradoxe de l'idempotence. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 230-241 (1968), 1-6. (D. Nelson) 39 #3960

Sur le paralogisme cantorien de la diagonale. *Univ. Lisboa Revista Fac. Ci. A* (2) 12, 213-220 (1968/69). (F. R. Drake) 41 #70

Morphismes sur le groupoïde ternaire des opérateurs propositionnels. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 19-33. (P.-A. Grillet) 40 #5413

Fonctions propositionnelles monadiques dans la logique trivalente. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 203-214. (Author's summary) 40 #4085

Sur le premier système de Łukasiewicz. *Arch. Math. (Brno)* 5 (1969), 207-214. (M. Stojaković) 43 #7302

Algèbre de Łukasiewicz dans la logique trivalente. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 123-130. (N. C. A. da Costa) 41 #40

Sadikova, R. H.

Generalizations of discrete Taussky inequalities and their continual analogues. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 161-165. (D. Ž. Đoković) 44 #4169

Sadikova, S. M.

On two-dimensional analogs of an inequality of Esseen and their application to the central limit theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 369-380. (M. Iosifescu) 34 #6832

Certain inequalities for characteristic functions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 500-506. (M. Iosifescu) 34 #6833

A distance between distributions, connected with their values on convex sets. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 787-789. (R. Cuppens) 36 #3396

The multidimensional central limit theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 164-170. (D. A. Darling) 37 #2301

Sadnik, M. D. See Sandik, M. D.

Sadomov, Ju. B.

(with Hohlov, L. M.) The possibility of determining multidimensional distribution functions of stationary Markov processes by means of two-dimensional ones and of the radius of the correlation. (Russian) *Avtomat. i Vyčisl. Tehn.* 1968, *no.* 4, 74-79. 44 #1101

Sadosky, Cora Ratto de

A note on parabolic fractional and singular integrals. *Studia Math.* 26 (1965/66), 327-335. (M. Cotlar) 36 #4392

* (with Cotlar, Mischa) Introducción al álgebra. Nociones de álgebra lineal. (Spanish) [Introduction to algebra. Concepts of linear algebra] Fourth edition. *Editorial Universitaria de Buenos Aires, Beunos Aires,* 1966. 278 *pp.* (David Carlson) 35 #4061

On some properties of a class of singular integrals. *Studia Math.* 27 (1966), 73-86. (E. B. Fabes) 34 #3262

(with Fabes, E. B.) Pointwise convergence for parabolic singular integrals. *Studia Math.* 26 (1966), 225-232. (B. Frank Jones, Jr.) 35 #682

Sadovniči̇̆, V. A.

On the trace of the difference of two ordinary differential operators of higher orders. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1611-1624. (Robert McKelvey) 34 #7866

(with Lidskiĭ, V. B.) Regularized root sums of a class of entire functions. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 259-262. (I. N. Baker) 36 #6620

(with Lidskiĭ, V. B.) Regularized sums of roots of a class of entire functions. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 52-59. (L. de Branges) 35 #4380

On the traces of ordinary differential operators of higher orders. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 293-317. (R. C. Gilbert) 35 #450

Trace formulae for ordinary differential operators of higher orders. (Russian) *Mat. Zametki* 1 (1967), 179-188. (R. C. Gilbert) 35 #451

On identities for the eigenvalues of a Dirac system and other systems of higher order. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 3, 37-47. (R. C. Gilbert) 36 #1731

(with Lidskiĭ, V. B.) Trace formulas in the case of the Orr-Sommerfeld equation. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 633-648. (H. Baumgärtel) 37 #3089

(with Lidskiĭ, V. B.) Asymptotic formulas for the roots of a class of entire functions. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 558-566. (Editors) 36 #6621

Certain identities for the eigenvalues of singular ordinary differential operators. Relations for the zeros of Bessel functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 3, 77-86. (B. S. Popov) 44 #519

Sadovnikov, B. I.

An equation for "classical" Green's functions in the kinetic approximation. *Dokl. Akad. Nauk SSSR* 164 (1965), 785-788 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 934-936. (A. Corciovei) 34 #7172

The asymptotic behavior of the classical Green's functions in the "viscous hydrodynamical approximation". *Dokl. Akad. Nauk SSSR* 164 (1965), 1024-1027 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 953-955. (A. Corciovei) 34 #7173

The classical Boltzmann equation in the Green function method. *Physica* 32 (1966), 858-868. (E. J. Verboven) 34 #8774

* Connection of two-time temperature advanced and retarded Green functions method with kinetic equations in statistical mechanics. *Izdat. "Naukova Dumka", Kiev,* 1967. 87 pp. (F. C. Auluck) 37 #6097

(with Bukli, K.) Bogoljubov's inequality in the statistical mechanics of classical systems. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 25 (1970), *no.* 1, 35-42. (O. Penrose) 44 #7915

Sadovskiĭ, A. P.

A solution of the center and focus problem in a special case. (Russian) *Differencial'nye Uravnenija* 4 (1968), 943-945. (S. Drobot) 37 #3094

Stability in critical cases. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1018-1021. (Wolfdietrich Müller) 37 #4353

The problem of center and focus. (Russian) *Differencial'nye Uravnenija* 4 (1968), 2002-2009. (S. Drobot) 38 #4756

On the problem of discrimination of center and focus. (Russian) *Differencial'nye Uravnenija* 5 (1969), 326-330. (K. R. Schneider) 39 #3089

The stability of the trivial solution of a certain system of differential equations. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 11-12. (D. Bobrowski) 40 #2990

The conditions for the center of a certain system of differential equations. (Russian) *Differencial'nye Uravnenija* 7 (1971), 2285-2286. (C. E. Langenhop) 44 #5551

Sadovskiĭ, B. N.

(with Mitjagin, B. S.) On linear Boolean operators. *Dokl. Akad. Nauk SSSR* 165 (1965), 773-776.*(Russian); translated as Soviet Math. Dokl.* 6 (1965), 1523-1527. (A. A. Mullin) 34 #4055

On the question of uniqueness conditions for ordinary differential equations. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 263-265. (V. Lakshmikantham) 33 #7602

On a fixed point principle. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 74-76. (G. Biriuk) 35 #2184

Several theorems on uniqueness and successive approximations for ordinary differential equations. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 1 (1967), 64-69. (L. Guggenbuhl) 37 #6514

Local existence theorems for ordinary differential equations in Banach spaces. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 1 (1967), 70-74. (J. Albrycht) 37 #553

Some theorems on differential inequalities. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 1 (1967), 75-81. (L. Guggenbuhl) 37 #503

(with Lifšic, E. A.) A fixed point theorem for generalized condensing operators. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 278-279. (Ky Fan) 38 #5083

(with Bondarenko, V. A.) On a problem of integral inequalities. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 2 (1968), 22-26. (P. Fischer) 43 #6378

(with Badoev, A. L.) An example of a densifying operator in the theory of differential equations with deviating argument of neutral type. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 1239-1242. (C. E. Langenhop) 40 #491

Sadovskiĭ, L. E.

* (with Karpelevič, F. I.) Элементы линейной алгебры и линейного программирования. (Russian) [Elements of linear algebra and linear programming] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1963. 274 *pp.* (Editors) 30 #4766

An approximation theorem and lattice isomorphisms. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 300-303. (V. Devidé) 31 #254

Projectivities and isomorphisms of nilpotent groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 171-208. (R. Kochendörffer) 30 #2075

Certain lattice-theoretic problems in group theory. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 122-157. (J. Jakubík) 37 #2870

Sadovskiĭ, V. N.

General systems theory: Evolution of ideas. *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris,* 1968), *Tome II: Problèmes Généraux d'Histoire des Sciences, Épistémologie, pp.* 97-100. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1970. (C. B. Boyer) 42 #7473

Sadovsky, L. E. See Sadovskiĭ, L. E.

Sadovsky, Vadim N. See Sadovskiĭ, V. N.

Sadowska, Danuta

A study of the continuity of tangential derivatives of a potential of simple layer for a parabolic equation with coefficients depending on a parameter. (Polish. Russian and French summaries) *Zeszty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 85-98. (Author's summary) 32 #7965 (with Otto, Edward; Wolska-Bochenek, Janina; Oderfeld, Jan; Borsuk, Karol; Rytel, Zdzisław; Piatkiewicz, Aleksy; Leitner, Roman; Żakowaski, Wojciech; Bieńkowska-Lipińska, Krystyna) Professor Witold Pogorzelski. (Polish) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 113-136. (Editors) 32 #5487

Corrections concernant l'article, "Problème aux limites aux dérivées tangentielles pour l'équation elliptique dont les coefficients dépendent d'une fonction inconnue". *Ann. Polon. Math.* 17 (1965), 117. (Editors) 31 #490

Problème de Cauchy pour un système parabolique dont les coefficients dépendent des fonctions inconnues. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 85-110. (O. Horáček) 38 #1403

Sadowski, L. E. See Sadovskiĭ, L. E.

Sadowski, P.

(with Woronowicz, S. L.) Total sets in quantum field theory. *Rep. Mathematical Phys.* 2 (1971), *no.* 2, 113-120. (H. Araki) 44 #3600

Sadowski, Wacław

Proof of axiomatizability of certain n-valued propositional calculi. (Polish. Russian and English summaries) *Studia Logica* 15 (1964), 25-36. (A. Mostowski) 32 #2318

Sadr, Mohammad T.

Structures topogènes sur une catégorie. *Cahiers Topologie Géom. Différentielle* 10 (1968), 475-505. (A. Császár (Zbl 184, 258)) 42 #934

Šadrin, G. A.

Application of the minimum and the maximum-minimum principles to problems of fluid vibrations with a free surface in a stationary container. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 4, *suppl.*, 250-257. (I. O. Bohachevsky) 34 #2249

Šadrov, A. F.

(with Eremin, S. A.) On complete systems and bases in spaces of functions holomorphic in multiple Hartogs regions. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 65-71. 34 #2945a

Spaces of functions analytic in multiple Hartogs regions. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 284-287. (J. Spilker) 32 #1374

Spaces of functions analytic in multiple Hartogs regions. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 147-156. 34 #2945b

On completeness and bases for systems in spaces of functions analytic in multiple Hartogs regions. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 156-163. 34 #2945c

Bounds for the Hartogs coefficients for functions of several complex variables. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 785-788. (J. Mitchell) 31 #3627

Certain classes of functions analytic in multiple Hartogs regions. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 764-767. (H. Tornehave) 35 #1831

Estimates for Hartogs coefficients of functions, analytic in multiple Hartogs regions. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 388-402. (H. Tornehave) 38 #3465

Spaces of functions that are analytic in multiple Hartogs regions, and certain classes of functions in them. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 315-324. (E. Solomencev (RŽMat 1968 #10 B186)) 43 #5054

Sadullaev, R. S.

(with Abutaliev, È. B.; Umirbekov, A. U.) An approximate solution of a boundary value problem for an equation of elliptic type in a multiply connected domain by the Monte Carlo method. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 43 (1967), 142-158. 40 #8216

Sadyhov, G. S.

On the growth in a strip of functions defined by Dirichlet series. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 1, 20-29. (S. Mandelbrojt) 34 #1503

On the question of growth of functions defined by Dirichlet series in a strip. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 6, 22-28. (R. P. Boas, Jr.) 34 #1504

The growth in a strip of functions defined by series of Dirichlet polynomials. (Russian) *Mat. Zametki* 3 (1968), 553-564. (W. H. J. Fuchs) 37 #5392

Sadyhov, M. M.

(with Ahmedov, K. T.; Gasanov, K. K.) Differential-extremal equations with retarded argument. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1967, *no.* 4, 63-71. (J. Carkovs) 42 #630

A certain differential-extremal equation with retarded argument. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1968, *no.* 4, 107-112. (A. Halanay) 40 #4568

Certain properties of the solutions of differential-extremal equations with retarded argument. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 2, 22-26. (J. Carkovs) 43 #3589

Sadykov, A.

On a system of equations in differentials connected with the Jacobi functions. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 9, 8-11. (G. Biriuk) 34 #407

Sadykov, I. H.

A certain problem of optimal averaging of the controls of discontinuous stochastic systems. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 107 (1968), 74-87. (P. Sagirow) 41 #5092

On the optimization of controlling systems with regard to reliability. (Russian) *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* 1969, *no.* 4, 34-42. (Author's summary) 44 #1484

Saeki, Sadahiro

On norms of idempotent measures. II. *Proc. Amer. Math. Soc.* 19 (1968), 367-371. (T. S. Liu) 37 #4510

On norms of idempotent measures. *Proc. Amer. Math. Soc.* 19 (1968), 600-602. (T. S. Liu) 37 #697

An elementary proof of a theorem of Henry Helson. *Tôhoku Math. J.* (2) 20 (1968), 244-247. (T. S. Liu) 37 #6694

Spectral synthesis for the Kronecker sets. *J. Math. Soc. Japan* 21 (1969), 549-563. (A. B. Willcox) 40 #7733

Operating functions on $B_0(\hat{G})$ in plane regions. *Tôhoku Math. J.* (2) 21 (1969), 112-116. (G. I. Gaudry) 40 #647

Translation invariant operators on groups. *Tôhoku Math. J.* (2) 22 (1970), 409-419. (D. E. Ramirez) 43 #815

A characterization of SH-sets. *Proc. Amer. Math. Soc.* 30 (1971), 497-503. (A. B. Willcox) 44 #731

Saeki, Takuya

On some relations between D-curvature and curvature. *Annual Rep. Coll. Lib. Arts Univ. Iwate* 24, *pt.* 3 (1964), 1-4. (A. G. Walker) 33 #1812

Affine connections on differentiable manifolds with Π-structure. *Annual Rep. Fac. Ed. Univ. Iwate* 29 (1969), *no.* 3, 1-8. (C. S. Houh) 41 #4429

Green's operators on multi-almost product manifolds. *Annual Rep. Fac. Ed. Univ. Iwate* 29 (1969), *no.* 3, 9-14. (C. S. Houh) 41 #9149

Saeks, Richard

Synthesis of general linear networks. *SIAM J. Appl. Math.* 16 (1968), 924-930. (B. J. Leon) 38 #5522

State-equation formulation for multiport networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 67-74. (P. R. Bryant) 43 #4567

Sáenz, Albert W.

Long-time behavior of the electric potential and stability in the linearized Vlasov theory. *J. Mathematical Phys.* 6 (1965), 859-875. (PA 68 #22602) 32 #8687

(with Wigner, E. P.) Unimodular matrices homomorphic to Lorentz transformations in $n \geq 2$ spacelike dimensions. *Z. Naturforsch.* 22a (1967), 1293-1299. (Authors' summary) 36 #2737

Sáenz García, Clemente

The theory of rational figures and its crystallographic consequences. (Spanish) *Mem. Real Acad. Ci. Exact. Fis. Natur. Madrid* 6, 5-329 (1964). (D. Gallarati) 32 #1931

Safaeva, K.

An algorithm for the solution of a generalized distribution problem. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 240-247. (S. Lebedev (RŽMat 1968 #9 V339)) 43 1622

Šafarevič, Igor R.

Principal homogeneous spaces defined over a function field. (Russian) *Trudy Mat. Inst. Steklov.* 64 (1961), 316-346. (P. Roquette) 29 #110

Einige Anwendungen der Galoisschen Theorie auf Diophantische Gleichungen. *Bericht von der Dirichlet-Tagung, pp.* 81-82. *Akademie-Verlag, Berlin,* 1963. (Editors) 30 #4725

Algebraic number fields. (Russian) *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 163-176. *Inst. Mittag-Leffler, Djursholm,* 1963. (P. Roquette) 34 #2569

Extensions with prescribed branch points. (Russian. French summary) *Inst. Hautes Études Sci. Publ. Math. No.* 18 (1963), 71-95. (P. Roquette) 31 #1247

* (with Borevič, Z. I.) Теория чисел (Russian) [The theory of numbers] *Izdat. "Nauka", Moscow,* 1964. 566 *pp.* (S. Chowla) 30 #1080

(with Novikov, S. P.; Pjateckiĭ-Šapiro, I. I.) Fundamental directions in the development of algebraic topology and algebraic geometry. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 6 (120), 75-82. (A. Borel) 30 #2003

(with Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraic surfaces. (Russian) *Trudy Mat. Inst. Steklov.* 75 (1965), 1-215. (E. C. Dade) 32 #7557

* (with Borevič, Z. I.) Zahlentheorie. Aus dem Russischen übersetzt von Helmut Koch. Lehrbücher und Monographien aus dem Gebiete der Exakten Wissenschaften, Mathematische Reihe, Band 32. *Birkhäuser Verlag, Basel-Stuttgart,* 1966. 468 *pp.* (Editors) 33 #4000

* (with Borevič, Z. I.) Number theory. Translated from the Russian by Newcomb Greenleaf. Pure and Applied Mathematics, Vol. 20. *Academic Press, New York-London,* 1966. x + 435 *pp.* (Editors) 33 #4001

(with Pjateckiĭ-Šapiro, I. I.) Galois theory of transcendental extensions and uniformization. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 262-264. *Izdat. "Nauka", Moscow,* 1966. (B. Gordon) 34 #7511

* Lectures on minimal models and birational transformations of two dimensional schemes. Notes by C. P. Ramanujam. Tata Institute of Fundamental Research Lectures on Mathematics and Physics, No. 37. *Tata Institute of Fundamental Research, Bombay,* 1966. iv + 175 *pp.* (Joseph Lipman) 36 #163

(with Kostrikin, A. I.) Cartan's pseudogroups and the p-algebras of Lie. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 740-742. (S. Moran) 33 #7384

(with Pjateckiĭ-Šapiro, I. I.) Galois theory of transcendental extensions and uniformization. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 671-704. (A. Borel) 34 #2581

* (with Borevič, Z. I.) Théorie des nombres. Traduit par Myriam et Jean-Luc Verley. Traduction faite d'après l'édition originale russe. Monographies Internationales de Mathématiques Modernes, No. 8. *Gauthier-Villars, Paris,* 1967. vii + 489 *pp.* (Editors) 34 #5734

(with Tate, J. T.) The rank of elliptic curves. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 770-773. (Authors' introduction) 38 #5790

(with Rudakov, A. N.) Irreducible representations of a simple three-dimensional Lie algebra over a field of finite characteristic. (Russian) *Mat. Zametki* 2 (1967), 439-454. (P. M. Cohn) 36 #2662

* (with Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraische Flächen. Redaktion I. R. Šafarevič. Mathematik und ihre Anwendungen in Physik und Technik Reihe A, Band 31. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1968. 303 *pp.* (Editors) 37 #6285

(with Kostrikin, A. I.) Graded Lie algebras of finite characteristic. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 251-322. (K. A. Ževlakov) 40 #5680

Foundations of algebraic geometry. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 6(150), 3-184. (P. E. Newstead) 42 #266

(with Pjateckiĭ-Šapiro, I. I.) Torelli's theorem for algebraic surfaces of type K3. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 530-572. (J. Čižmár) 44 #1666

(with Arnol'd, V. I.; Gel'fand, I. M.; Manin, Ju. I.; Moĭšezon, B. G.; Novikov, S. P.) Galina Nikolaevna Tjurina. Obituary. (Russian) *Uspehi Mat. Nauk* 26 (1971), *no.* 1(157), 207-211. (1 *plate*) (Editors) 44 #6430

Safarjan, L. P.

Certain classes of manifolds of cones of order two in P_n. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 50 (1970), 83-90. (K. Svoboda) 44 #3221

Šafeev, M. N.

On functions of two complex variables, analytic in a hypersphere. (Russian) *Ukrain. Mat. Ž.* 12 (1960), 101-106. 29 #4907

Boundary properties of the S_p integral. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 2 (39), 165-175. (H. Fast) 29 #262

A boundary-value problem for biharmonic functions of two complex variables. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 109-114. (J. Spilker) 29 #6047

On boundary properties of analytic functions and on the double Cauchy *A*-integral. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 167-170. *Izdat. "Nauka" Kazah. SSR. Alma-Ata,* 1965. (R. P. Boas, Jr.) 34 #4540

Boundary properties of $S_{P,T}$ and T_P integrals. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 171-173. *Izdat "Nauka" Kazah. SSR, Alma-Ata,* 1965. (R. P. Boas, Jr.) 34 #6145

Saff, E. B.

Interpolation and functions of class $H(k,\alpha,2)$. *J. Approximation Theory* 1 (1968), 488-492. (G. D. Taylor) 39 #2992

(with Walsh, J. L.) Extensions of D. Jackson's theorem on best complex polynomial mean approximation. *Trans. Amer. Math. Soc.* 138 (1969), 61-69. (T. Kövari) 39 #3001

Approximation by rational and meromorphic functions having a bounded number of free poles. *Trans. Amer. Math. Soc.* 141 (1969), 79-92. (S. Fisher) 39 #4406

Polynomials of interpolation and approximation to meromorphic functions. *Trans. Amer. Math. Soc.* 143 (1969), 509-522. (K. R. Unni) 40 #5875

On the row convergence of the Walsh array for meromorphic functions. *Trans. Amer. Math. Soc.* 146 (1969), 241-257. (T. Kövari) 42 #517

(with Twomey, J. B.) A note on the location of critical points of polynomials. *Proc. Amer. Math. Soc.* 27 (1971), 303-308. (M. Marden) 42 #6195

Regions of meromorphy determined by the degree of best rational approximation. *Proc. Amer. Math. Soc.* 29 (1971), 30-38. (E. J. Akutowicz) 43 #7644

(with Rubinstein, Zalman) Bounded approximation by polynomials whose zeros lie on a circle. *Proc. Amer. Math. Soc.* 29 (1971), 482-486. (T. Kövari) 43 #3463

The convergence of rational functions of best approximation to the exponential function. *Trans. Amer. Math. Soc.* 153 (1971), 483-493. (K. R. Unni) 43 #535

Saffari, Bahman

Sur le nombre de diviseurs "r-free" d'un entier. Cas $r = 2$ et $r = 3$. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A705-A707. (L. Carlitz) 36 #3739

Sur le nombre de diviseurs "r-free" d'un entier. Cas $r \geq 4$. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A109-A112. (I. Danicic) 38 #131

Sur le nombre des diviseurs "r-libres" d'un entier, et sur les points à coordonnées entières dans certaines régions du plan. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A601-A603. (I. Danicic) 37 #6252

Sur quelques applications de la "méthode de l'hyperbole" de Dirichlet à la théorie des nombres premiers. *Enseignement Math.* (2) 14 (1968), 205-224 (1970). (S. Ikehara) 42 #3037

Sur les oscillations des fonctions sommatoires des fonctions de Möbius et de Liouville. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A578-A580. (Editors) 42 #7607

Sur la fausseté de la conjecture de Mertens. (With discussion) *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1097-A1101. (O. H. Körner) 43 #6167

Ω-théorèmes sur le terme résiduel dans la loi de répartition des entiers non divisibles par une puissance $r^{\text{ième}}$, $r > 1$ ("r-free"). *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A95-A97. (Author's summary) 43 #167

Sur l'hypothèse de Riemann et sur certains problèmes de diviseurs. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A197-A198. (Author's summary) 42 #7608

Saffman, Philip G.

Some aspects of the effects of the molecular diffusivity in turbulent diffusion. (French summary) *Mécanique de la Turbulence (Marseille,* 1961*), pp.* 53-62. *Éditions Centre Nat. Recherche Sci., Paris,* 1962. (R. G. Deissler) 30 #3661

The displacement of a viscous fluid from a porous medium. *Proc.* 1963 *Heat Transfer and Fluid Mech. Inst. (Calif. Inst. Tech., Pasadena, Calif.,* 1963*), pp.* 176-182. *Stanford Univ. Press, Stanford, Calif.,* 1963. (Şt. I. Gheorghită) 29 #6730

On the fine-scale structure of vector fields convected by a turbulent fluid. *J. Fluid Mech.* 16 (1963), 545-572. (J. L. Lumley) 30 #794

(with Roxburgh, I. W.) The growth of condensations in a Newtonian model of the steady-state universe. *Monthly Notices Roy. Astronom. Soc.* 129 (1965), 181-189. (D. W. Sciama) 31 #5679

The large-scale structure of homogeneous turbulence. *J. Fluid Mech.* 27 (1967), 581-593. (J. L. Lumley) 34 #8716

(with Cole, J. D.; Keller, H. B.) The flow of a viscous compressible fluid through a very narrow gap. *SIAM J. Appl. Math.* 15 (1967), 605-617. (W. P. Graebel) 36 #2352

Šafiev, R. A.

(with Kerimova, D. N.) An approximate solution of a nonlinear filtration theory problem. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 21 (1965), *no.* 5, 8-12. (Şt. I. Gheorghiţă) 32 #3426

Certain iterative methods for non-linear integro-differential equations. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 6, 3-10. (Tadeusz Leżański) 34 #578

Certain iteration methods of solution of functional equations. (Russian) *Functional Anal. Certain Problems Theory of Different. Equations and Theory of Functions (Russian), pp.* 173-179. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. (W. V. Petryshyn) 36 #2299

Certain iteration methods of solution of nonlinear equations with non-differentiable operators. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 425-429. (J. W. Schmidt) 35 #3877

Šafieva, D. R.

On a certain critical case of countable systems. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 47-48. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (Z. Opial) 34 #7904

On the investigation of a critical case of the two zero-roots with a group of solutions of countable systems of differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1965, *no.* 3, 92-94. 33 #380

A critical case of two zero-roots of countable systems. (Russian. English summary) *Trudy Univ. Družby Narod.* 15 (1966), *vyp.* 3, 214-227. (C. E. Langenhop) 33 #6071

On the investigation of critical cases of countable systems of differential equations. (Russian. English summary) *Trudy Univ. Družby Narod.* 27 (1968), *vyp.* 5, 107-118. (N. Rozov (RŽMat 1968 #8 B325)) 42 #8021

Safiul Haq, M. See Haq, M. Safiul.

Safiullina, È. N.

Classification of nilpotent Lie algebras of order 7. (Russian) *Candidates' Works (1964), Math., Mech., Phys. (Russian), pp.* 66-69. *Izdat. Kazan. Univ., Kazan,* 1964. (A. J. Coleman) 32 #5797

Safko, John L.

The nature of the general relativistic solution of the charged line mass. *Ann. Physics* 58 (1970), 322-334. (H. A. Buchdahl) 41 #4999 (with Witten, Louis) Some properties of cylindrically symmetric Einstein-Maxwell fields. *J. Mathematical Phys.* 12 (1971), 257-270. (J. R. Vanstone) 43 #1592

Safonov, A. N.

$C(+P_n)$ methods of summability series. (Russian) *Jaroslav. Gos. Ped. Inst. Učen. Zap. Vyp.* 60 (1968), 96-100. *(loose errata)* (H.-H. Körle) 43 #767

Safonov, S. A.

(with Suprunenko, D. A.; Rusakov, S. A.) Sixtieth birthday and thirty years of pedagogical activity of Sergeĭ Antonovič Čunihin. (Russian) *Finite Groups (Russian), pp.* 5-13. *Nauka i Tehnika, Minsk,* 1966. (Editors) 33 #2520

The structure of groups with a small number of classes of inaccessible subgroups. (Russian) *Finite Groups (Russian), pp.* 128-140. *Nauka i Tehnika, Minsk,* 1966. (R. R. Struik) 35 #1664

(with Mal'cev, A. I.; Černikov, S. M.; Šemetkov, L. A.) Sergeĭ Antonovič Čunihin. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 189-197. (1 *plate*) (Editors) 34 #5633

Šafranov, G. Ja.

Generation of periodic motions from a state of equilibrium. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 50-52. (H. I. Freedman) 42 #3358

Šafranov, V. D.

Plasma confinement in a toroidal magnetic field and with a conducting diaphragm. *Nuclear Fusion* 5 (1965), 150-151. (J. L. Johnson) 32 #729

Safronova, G. P.

Inverse theorems on the best approximation of functions of a complex variable. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 13, 40-46. (Jaroslav Fuka) 33 #7560

A method for summing divergent series. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 13, 170-173. (F. Ustina) 36 #3009

Sag, T. W.

(with Szekeres, G.) Numerical evaluation of high-dimensional integrals. *Math. Comp.* 18 (1964), 245-253. (P. C. Hammer) 29 #2969

Chebyshev iteration methods for integral equations of the second kind. *Math. Comp.* 24 (1970), 341-355. (W. R. Boland) 43 #4294

Sagaĭdak, M. I.

A certain differential game. (Russian) *Theory of Optimal Solutions (Proc. Sem., Kiev, 1968), No. 2, (Russian), pp.* 14-22. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (A. Halanay) 40 #5274

(with Pšeničnyĭ, B. N.) Differential games with fixed time. (Russian. English summary insert) *Kibernetika (Kiev)* 1970, *no.* 2, 54-63. (A. Friedman) 44 #5126

Sagalovič, Ju. L.

(with Ševerdjaev, A. Ju.) On the construction of a long code from a short one with preservation of a correcting property. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 1, 73-74. (P. Constantinescu) 32 #9148

Cyclic codes which correct uniform patches of errors. (Russian) *Problemy Peredači Informacii* 1 (1965), *vyp.* 1, 117-121. (P. Constantinescu) 33 #5399

A method of improvement of reliability for a finite automaton. (Russian) *Problemy Peredači Informacii* 1 (1965), *vyp.* 2, 27-35. 32 #5466

Memory contraction for an automaton stable to injuries and competitions in its internal elements. *Problemy Peredači Informacii* 3 (1967), *vyp.* 2, 73-85 *(Russian); translated as Problems of Information Transmission* 3 (1967), *no.* 2, 56-64 (1969). (J. Hartmanis) 44 #2534

Sagaspe, Jean-Pierre

Méthode des fonctions automodulatrices pour l'identification des systèmes. *C. R. Acad. Sci. Paris Sér. A - B* 274 (1972), A215-A217. 44 #8000

Sagastume, Marta

(with Bosch, Jorge) Catégories de variétés abstraites. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1565-A1568. (P. Abellanas) 43 #2045

Sagawa, Akira

(with Kuroda, Tadashi) Remark on the Gross property. *Tôhoku Math. J.* (2) 20 (1968), 394-399. (G. R. MacLane) 41 #478

Some function-theoretic null sets. *Tôhoku Math. J.* (2) 21 (1969), 456-466. (K. Noshiro) 41 #2017

The behaviour of meromorphic functions with a set of singularities of the class N_B^0. *Nagoya Math. J.* 39 (1970), 133-139. (P. Lappan) 42 #7902

Note on the cluster sets of meromorphic functions. *Tôhoku Math. J.* (2) 23 (1971), 13-15. (J. W. Noonan) 44 #5469

Šagdar, D.

A certain approximate criterion for the testing of hypotheses on the correlation function of a Gaussian random process. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 226-234. (G. Tusnády) 44 #2302

A remark on a certain unbiased estimate with minimal variance from the class of linear estimates. (Russian) *Teor. Verojatnost. i Primenen.* 15 (1970), 136-138. (S. Kullback) 42 #3905

A certain problem of pure prognosis of a Gaussian process. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 422-425. (O. A. Glonti) 42 #3960

Sagdeev, R. Z.

(with Zaslavskiĭ, G. M.; Moiseev, S. S.) Asymptotic methods of hydrodynamic stability theory. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1964, *no.* 5, 44-55. (Şt. I. Gheorghiţă) 32 1989

(See also Reviews of plasma physics, 32 #7145)

Sage, Andrew P.

Suboptimal control by frequency domain techniques, differential approximation, and quasilinearization. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 828-839. *Univ. Illinois, Urbana, Ill.,* 1965. (Author's summary) 39 #6650

(with Choate, W. C.) A useful change of variable for a class of linear differential systems. *IEEE Trans. Automatic Control* AC-11 (1966), 748-749. (M. N. Oğuztöreli) 34 #7239

(with Griffin, Robert E.) Large and small scale sensitivity analysis of optimum estimation algorithms. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 977-988. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2423

* Optimum systems control. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1968. xiv + 562 *pp.* (D. H. Chyung) 40 #8469

(with Griffin, Robert E.) Sensitivity analysis of fixed point linear smoothing algorithms. *Internat. J. Control* (1) 8 (1968), 321-337. (Y. H. Ku) 40 #2409

(with McLendon, J. Robert) A sensitivity analysis of discrete detection algorithms. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech, Atlanta, Ga., 1970), pp.* 407-418. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8135

(with McLendon, J. Robert) Computational algorithms for discrete detection and likelihood ratio computation. *Information Sci.* 2 (1970), 273-298. (K. S. Miller) 42 #4309

(with Dajani, M. Z.) Nonlinear sequential algorithms for estimation under uncertainty. *Information Sci.* 2 (1970), 379-393. (A. C. Cohen) 42 #2580

Maximum a posteriori filtering and smoothing algorithms. *Internat. J. Control* (1) 11 (1970), 641-658. (Author's summary) 42 #6979

Sage, Gerald F.

Serial synchronization of pseudonoise systems. *IEEE Trans. Comm. Tech.* COM-12 (1964), 123-127. (R. F. Drenick) 31 #5725

Sage, Martin L.

(with Holliday, Dennis) Counting correlations in boson beams. *Ann. Physics* 29 (1964), 125-157. (I. R. Senitzky) 31 #3043

(with Holliday, Dennis) Statistical descriptions of free boson fields. *Phys. Rev.* (2) 138 (1965), B485-B487. (J. R. Klauder) 33 #7041

Sager, G.

Bogenlängen von ausgewählten Schallwegkurven. *Monatsb. Deutsch. Akad. Wiss. Berlin* 12 (1970), 605-617. (H. Hochstadt) 42 #6287

Sagher, Yoram

(with Rivière, N. M.) The converse of Wiener-Levy-Marcinkiewicz theorem. *Studia Math.* 28 (1966), 133-138. (Y. Katznelson) 34 #4793

On analytic families of operators. *Israel J. Math.* 7 (1969), 350-356. (B. Muckenhoupt) 41 #2471

(with Rivière, N. M.) Multipliers of trigonometric series and pointwise convergence. *Trans. Amer. Math. Soc.* 140 (1969), 301-308. (M. Jodeit, Jr.) 39 #7349

Šaginjan, A. A.

The cluster sets of functions that are harmonic inside a sphere. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 4 (1969), *no.* 5, 327-350. (G. Piranian) 42 #3295

The cluster sets of functions that are harmonic inside a sphere. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1038-1039. (G. Piranian) 41 #3792

Šaginjan, A. L.

* Analitik funkcianeri tesuthĭun. I. (Armenian) [Theory of analytic functions. I] *"Mitk" Hratarakutĭun, Erevan,* 1969. 243 *pp.* *(2 errata inserts)* (A. Babakhanian) 44 #6942

Šaginyan, A. L. See Šaginjan, A. L.

Sagirow, Peter S.

Über die optimalen Steuerungen senkrecht aufsteigender Flugkörper. *Z. Angew. Math. Mech.* 43 (1963), *suppl.,* T97-T99. 32 #3897

Die zweite harmonische Näherung für Differentialgleichungen höherer Ordnung mit einer kubischen Nichtlinearität. (English and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 129-134. (K. Magnus) 30 #5013

(with Hofer, Eberhard P.) Optimal systems depending on parameters. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 265-269. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #1170

Sagitov, M. N.

Certain cases of the motion of a rotating sphere of variable mass whose axis is horizontal. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz-Mat. Nauk* 1963, *no.* 3, 88-99. (T. P. Anđelić) 29 #757

The motion of a rotating sphere of variable mass with a vertical axis of rotation. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 77-86. (T. P. Anđelić) 30 #5537

Motion of a system consisting of two connected points of variable mass. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 88-93. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (B. Choczewski) 40 #3762

Sagitov, M. S.

Stability of an unperturbed motion in a critical case of five null-roots. (Russian) *Studies Anal. Mech. (Russian), pp.* 76-83. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1965. (C. Olech) 34 #6243

(with Filatov, A. N.) On Liapunov stability in the critical case of a characteristic equation with an even number of roots equal to zero. *Prikl. Mat. Meh.* 29 (1965), 173-175 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 187-190 (1966). (R. P. de Figueiredo) 34 #440

Stability of motion in the critical case of an even number of zero roots. (Russian. Uzbek summary) *Dokl. Akad. Nauk UzSSR* 1966, *no.* 4, 18-20. (R. F. Datko) 42 #4832

Sagle, Arthur A.

On anti-commutative algebras with an invariant form. *Canad. J. Math.* 16 (1964), 370-378. (L. A. Kokoris) 29 #3510

On anti-commutative algebras and analytic loops. *Canad. J. Math.* 17 (1965), 550-558. (L. J. Paige) 31 #214

On anti-commutative algebras and general Lie triple systems. *Pacific J. Math.* 15 (1965), 281-291. (G. Leger) 31 #1283

Remarks on simple extended Lie algebras. *Pacific J. Math.* 15 (1965), 613-120. (W. E. Jenner) 32 #7613

On simple extended Lie algebras over fields of characteristic zero. *Pacific J. Math.* 15 (1965), 621-648. (W. E. Jenner) 32 #7612

On simple algebras obtained from homogeneous general Lie triple systems. *Pacific J. Math.* 15 (1965), 1397-1400. (G. Leger) 32 #5798

Simple algebras that generalize the Jordan algebra M_3^8. *Canad. J. Math.* 18 (1966), 282-290. (L. J. Paige) 32 #7614

On anti-commutative algebras and homogeneous spaces. *J. Math. Mech.* 16 (1967), 1381-1393. (W. E. Jenner) 36 #6548

(with Winter, D. J.) On homogeneous spaces and reductive subalgebras of simple Lie algebras. *Trans. Amer. Math. Soc.* 128 (1967), 142-147. (Y. Matsushima) 37 #2910

A note on simple anti-commutative algebras obtained from reductive homogeneous spaces. *Nagoya Math. J.* 31 (1968), 105-124. (J. L. Koszul) 40 #1541

A note on triple systems and totally geodesic submanifolds in a homogeneous space. *Nagoya Math. J.* 32 (1968), 5-20. (W. E. Jenner) 38 #271

On homogeneous spaces, holonomy, and non-associative algebras. *Nagoya Math. J.* 32 (1968), 373-394. (W. E. Jenner) 38 #272

Some homogeneous Einstein manifolds. *Nagoya Math. J.* 39 (1970), 81-106. (J. P. Wilson) 42 #6748

On reductive Lie admissible algebras. *Canad. J. Math.* 23 (1971), 325-331. (M. L. Tomber) 43 #2036

Sagomonjan, A. Ja.

The interaction of a body and a semi-infinite barrier at high impact velocities. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 5, 39-48. (Author's summary) 29 #6759

Sagrebin, D. W. See Zagrebin D.

Sah, Chih-han

A note on Hermitian forms over fields of characteristic 2. *Amer. J. Math.* 86 (1964), 262-270. (Burton W. Jones) 32 #5673

(with Goldman, Oscar) On a special class of locally compact rings. *J. Algebra* 4 (1966), 71-95. (K. Kondo) 33 #4104

* Abstract algebra. *Academic Press, New York-London,* 1967. xiii + 342 *pp.* (R. E. MacRae) 36 #6245

Automorphisms of finite groups. *J. Algebra* 10 (1968), 47-68. (M. F. Newman) 37 #5287

(See also Theory of finite groups: A symposium, 39 #1538)

Groups related to compact Riemann surfaces. *Acta Math.* 123 (1969), 13-42. (A. M. Macbeath) 40 #4447

(with Goldman, Oscar) Locally compact rings of special type. *J. Algebra* 11 (1969), 363-454. (L. A. Skornjakov) 38 #4530

Sah, Priyamvada

On the dimensionality of irreducible representations of a finite group. *Math. Student* 37 (1969), 105-107. (P. Fong) 41 #6997

Saha, Bibhuti Bhusan

(with Chatterjea, Santi Kumar) Sur une classe de fonctions génératrices. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A801-A803. (Editors) 39 #4462

On a generating function of Hermite Polynomials. *Yokohama Math. J.* 17 (1969), 73-76. (R. P. Soni) 41 #3842

Saha, Fullara

(with Gupta, Ram Niwas) Remarks on a paper of Small. *J. Math. Sci.* 2 (1967), 7-16. (E. J. Taft) 36 #2642

(with Gupta, Ram Niwas) On quasi-Frobenius local rings. *Riv. Mat. Univ. Parma* (2) 8 (1967), 219-220. (T. Hannula) 39 #6927

Saha, G. M.

(with Mohanty, S.) On non-orthogonal main effect plans for asymmetrical factorials. *Ann. Inst. Statist. Math.* 22 (1970), 159-169. (D. Papamicail) 42 #5399

(with Dey, A.) Main effect plans for k^n factorials with blocks. *Ann. Inst. Statist. Math.* 22 (1970), 381-388. (K. Vijayan) 44 #2295

(with Das, M. N.) Construction of partially balanced incomplete block designs through 2^n factorials and some new designs of two associate classes. *J. Combinatorial Theory Ser. A* 11 (1971), 282-295. (J. F. Lawless) 43 #7348

Saha, S. K.

(with Sen, J. K.) On the continuous equivalence of non-reciprocal networks. *Internat. J. Control* (1) 10 (1969), 235-240. (Authors' summary) 39 #5255

Sahaev, I. I.

On the weak dimension of modules, rings and algebras. Flat resolutions and their application. (Russian) *Candidates' Works* (1964), *Math., Mech. Phys. (Russian), pp.* 70-76. *Izdat. Kazan. Univ., Kazan,* 1964. (Charles E. Watts) 32 #7605

The weak dimension of modules, rings and algebras. The projectivity of flat modules. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 152-157. (L. Budach) 32 #4175

The projectivity of finitely generated flat modules. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 564-573. (W. F. Reynolds) 31 #4816

Exactness of functors. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.*4 (53), 104-108. (O. Wyler) 35 #4280

Rings over which any finitely generated flat module is projective. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 9 (88), 65 65-73. (W. F. Reynolds) 41 #5411

(with Čirkov, G. V.) Projectivity of finitely generated plane modules over a semilocal ring with a single primitive ideal. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 6 (97), 106. (S. Warner) 43 #270

Sahaev, Š.

Solution of the first boundary value problem of electrodynamics for an ellipsoid and a torus in the case of the validity of Maxwell's equations at the boundary. (Russian) *Integration Certain Differential Equations math. Phys. (Russian), pp.* 210-224. *Izdat. "Nauka" Uzbek, SSR, Tashkent,* 1964. (Y. Shimizu) 34 #5398

The uniqueness of the solution of integral equations, equivalent to the solutions of the first boundary problem of electrodynamics. (Russian) *Studies in Differential Equations and their Applications (Russian), pp.* 51-53. *Izdat. "Nauka", Alma-Ata,* 1965. (Y. Shimizu) 32 #6864

Solution of the first boundary problem of electrodynamics for the sphere by the perturbation method. (Russian) *Studies in Differential Equations and their Applications, (Russian), pp.* 80-86. *Izdat. "Nauka", Alma-Ata,* 1965. (J. E. Rosenthal) 32 #3443

Šahaĭdarova, N.

On the uniform local theorem for densities. (Russian) *Theory Probability Math. Statist. (Russian), pp.* 117-125. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. (L. A. Shepp) 33 #4978

On the multidimensional limit theorem. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 4, 11-16. (J. J. Mehlberg) 32 #6532

(with Siraždinov, S. H.) On the uniform local theorem for densities. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 6, 30-36. (W. Hoeffding) 33 #762

Uniform local and global theorems for densities. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 5, 90-91. (Editors) 37 #4854

Local limit theorems with uniform estimates. (Russian) *Limit Theorems and Probabilistic Processes (Russian), pp.* 89-97. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. (Judah Rosenblatt) 38 #1726

(with Azlarov, T. A.) Uniform estimates in global limit theorems. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 2, 3-6. (L. A. Shepp) 37 #4855 (with Zuparov, T. M.) A certain estimate of the remainder term in the central limit theorem. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 5, 28-33. (B. Volkmann) 44 #6014

Šahaĭdarova, P. Š.

A form of the equations of motion of mechanical systems in redundant coordinates. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 275 (1966), 16-19. (R. N. Goss) 35 #3949

Sahaney, B. N.

On the summability $(H,p):C_1$ of a sequence of Fourier coefficients $\{nB_n\}$. *Madhya Bharati II A* 10 (1961), *no.* 10, 36-44 (1964). (E. M. Stein) 33 #3049

Saharova, M. P.

On the asymptotic expansion of certain special functions that enter the solution of a series of problems of diffraction on a wedge. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1970, *no.* 11, 141-144. (J. Ławrynowicz) 44 #6209

Sahay, G.

On fundamental, Holder's and Minkowski's theorems on inequalities. *Math. Education* 4 (1970), A127-A131. (H. Kober) 44 #387

Šahbagjan, R. L.

The first boundary value problem for quasilinear parabolic equations of second order. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 18 (1965), *no.* 3, 23-35. (B. Frank Jones, Jr.) 35 #586

Integral equations in a half-space. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 42 (1966), *no.* 1, 9-14. (J. Nieto) 33 #6324

Convolution operators with nonhomogeneous symbols. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 1 (1966), *no.* 1, 71-78. (J. Peetre) 34 #3251

Convolution equations in a half-space. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 266-296. (F. Smithies) 33 #4626

Convolution integral equations with variable symbol. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 1, 52-57. (Z. Zieleźny) 37 #4520

Pseudodifferential operators in a half space. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 4-5, 386-396. (L. Cattabriga) 42 #6659

Šahbazjan, K. V.

The calculus of programming functional operations. (Russian) *Trudy Mat. Inst. Steklov.* 66 (1962), 45-76. (A. P. Ershov) 34 #3826

(with Makarenko, I. P.; Sohranskaja, V. S.) On ЛРОРАБ, a computing program. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 1134-1137. (F. D. Faulkner) 30 #1632

(with Lebedinskiĭ, M. M.) A functional algorithmic language. *Trudy Mat. Inst. Steklov.* 96 (1968), 16-47 *(Russian); translated in Proc. Steklov Inst. Math.*, *No.* 96 (1968): *Automat. Programming, Numer. Methods and Functional Anal., pp.* 17-55. *Amer. Math. Soc., Providence, R. I.*, 1970. (S. Huzino) 43 #1474

Šahbazjan, V. A.

An integral equation for the $\omega_0 \to 3\pi$ decay. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 196-200 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 139-141. (J. Franklin) 32 #8829

(with Tuškina, T. A.) The basic concepts of parallel ordering. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 6-15. (V. Spiridonov) 44 #2656

(with Tuškina, T. A.) Solution of certain problems of parallel ordering. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 16-26. (V. Spiridonov) 44 #2657

Choice of indexing in problems of parallel ordering. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 27-30. (V. Spiridonov) 44 #2658

Šahbazov, A. A.

A probabilistic proof of a theorem of A. O. Gel′fond. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1379-1384. (J. J. Mehlberg) 36 #7173

Šahbazyan, V. A. See Šahbazjan, V. A.

Saheki, Sadahiro

A theorem on zero sets for continuous functions. (Japanese) *Sûgaku* 17 (1965), 29-30. (S. Hitotumatu) 33 #6370

Şahin, İzzet

On the least positive root of the equation $z=K(z)$ in queueing theory. (French summary) *CORS J.* 8 (1970), 109-115. (H. H. Goldstine) 41 #9438

(with Bhat, U. Narayan) A stochastic system with scheduled secondary inputs. *Operations Res.* 19 (1971), 436-446. (Authors' summary) 43 #1297

Sahler, W.

A survey on distribution-free statistics based on distances between distribution functions. *Metrika* 13 (1968), 149-169. (J. Capon) 38 #2905

Estimation by minimum-discrepancy methods. *Metrika* 16 (1970), 85-106. (M. Knott) 44 #2289

Sahlin, Harry L.

(with Schwartz, Judah L.) Many-body problem for composite particles. *Phys. Rev.* (2) 138 (1965), B267-B273. (D. Lurié) 32 #3690

(with Lawande, S. V.; Jensen, C. A.) Monte Carlo integration of the Feynman propagator in imaginary time. *J. Computational Phys.* 3 (1969), 416-443. 39 #1079

Šahmeĭster, V. A.

A class of singular integral equations whose characteristic numbers fill a domain. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 6 (109), 111-113. (O. E. Stanaitis) 44 #7236

Sahney, Badri N.

On the Borel summability of the derived Fourier series. *Bull. Calcutta Math. Soc.* 54 (1962), 211-218. (S. Izumi) 36 #4261

On the Nörlund summability of double Fourier series. *Bull. Calcutta Math. Soc.* 54 (1962), 219-238. (S. Izumi) 36 #4269

On the relation between Riemann and Abel summability of trigonometrical series. *Ann. Mat. Pura Appl.* (4) 63 (1963), 123-131. (S. Izumi) 29 #5052

(with Kathal, P. D.) Summability *(L)* of the first differentiated Fourier series. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 21-26. *Math. Res. Center Nat. Taiwan Univ., Taipei*, 1967. (Yung-ming Chen) 37 #688

(with Kathal, P. D.) Borel summability of Fourier series. *Boll. Un. Mat. Ital.* (3) 22 (1967), 179-182. (J. Bryant) 36 #1920

A note on matrix summability of a class of Fourier series. *Bull. Amer. Math. Soc.* 75 (1969), 1374-1378. (J. Bryant) 42 #2249

(with Kathal, P. D.) A new criterion for Borel summability of Fourier series. *Canad. Math. Bull.* 12 (1969), 573-580. (F. C. Hsiang) 40 #4674

On the Nørlund summability of a class of Fourier series. *Canad. J. Math.* 22 (1970), 86-91. (H. P. Dikshit) 44 #7217

Sahnovič, G. S.

(with Klement′ev, Z. I.) A certain class of vector spaces. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 198 (1967), 17-27. (L. Florinskaja (RŽMat 1968 #9 B460)) 44 #794

(with Klement′ev, Z. I.) Operators in subspaces of the space of locally summable functions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 198 (1967), 28-33. (L. Florinskaja (RŽMat 1968 #9 B461)) 44 #795

Sahnovič, L. A.

Some properties of the discrete spectrum of the radial Schrödinger equation. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 286-289. (P. K. Ghosh) 29 #301

On the spectrum of the anharmonic oscillator. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1345-1362. (C. S. Coleman) 33 #336

Analytic properties of the discrete spectrum of the Schrödinger equation. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 185-204. (P. K. Ghosh) 29 #3714

Spectral analysis of Volterra operators prescribed in the vector-function space $L^2_m[0,l]$. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 259-268. (P. K. Ghosh) 29 #2680

On the spectrum of the radial Schrödinger equation in the neighbourhood of zero. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 221-243. (P. K. Ghosh) 33 #5236

Dissipative operators with an absolutely continuous spectrum. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 760-763. (C. Foiaş) 34 #3334

Integral over an ellipsoid and the second Born approximation. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 284-287. (A. J. Lohwater) 34 #8757

On the Ritz formula and the quantum defects of the spectrum for a radial Schrödinger equation. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1297-1310. (L. de Branges) 34 #2993

Nonunitary operators with absolutely continuous spectrum on the unit circle. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 558-561. (H. Baumgärtel) 38 #570

Operators, similar to unitary operators, with absolutely continuous spectrum. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 1, 51-63. (T. Ando) 38 #569

Dissipative Volterra operators. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 323-343. (L. de Branges) 37 #3389

Dissipative operators with absolutely continuous spectrum. (Russian) *Trudy Moskov. Mat. Obšč.* 19 (1968), 211-270. (B. Walsh) 40 #3350

The discrete and continuous spectra of the radial Dirac equation. *Dokl. Akad. Nauk SSSR* 185 (1969), 61-64 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 199-201. 41 #3030

Nonunitary operators with absolutely continuous spectrum. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 52-64. (R. Beals) 39 #6107

The invariance principle for generalized wave operators. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 1, 61-68. (J. Wiesner) 44 #849

Sahnovskiĭ, È. G.

One-fluid dynamical equations of a partially ionized gas in a strong magnetic field. *Prikl. Mat. Meh.* 28 (1964), 474-482 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 582-591. (H. C. Kranzer) 33 #3585

Sahnovskiĭ, L. D.

An attempt to calculate the parabolic rate of growth. (Russian) *Èkonom. i Mat. Metody* 2 (1966), 134-139. (I. Šelihova (RŽMat 1966 #8 V198)) 42 #5613

Šahov, E. M.

Temperature field in a solid with a nonuniformly heated surface. *Prikl. Mat. Meh.* 28 (1964), 188-192. *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 230-234. (B. A. Boley) 30 #3693

Šahov, Ju. A.

An example of the use of two-sided methods of numerical integration. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 3 (1963), 89-92. (Walter Gautschi) 32 #8511

(with Gorbunov, A. D.) Approximate solution of the Cauchy problem for ordinary differential equations with a preassigned number of correct signs. I. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 239-253. (P. Henrici) 29 #739

(with Gorbunov, A. D.) Approximate solution of the Cauchy problem for ordinary differential equations with a preassigned number of correct digits. II. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 426-433. (P. Henrici) 31 #1772

Šahov, Ju N.

On the approximate solution of higher-dimensional linear Volterra equations of second kind by an iteration method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.*, 75-100. (J. F. Heyda) 31 #2576

}

Šahova, L. V.

Straight isoclines. (Russian) *Trudy Samarkand. Gos. Univ. (N.S.) Vyp.* 144 (1964), 93-105. (C. S. Coleman) 36 #1749

(with Kukles, I. S.) Limit cycles of the differential equation $dy/dx = \Sigma_{i+j=0}^{2} b_{ij}x^iy^j/\Sigma_{i+j=0}^{2} a_{ij}x^iy^j$. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 5, 24-29. (C. S. Coleman) 33 #7629

The relative arrangement of limit cycles at infinity. (Russian) *Problems of Integration of Differential Equations (Russian). pp.* 259-271. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1966. (J. Rausen) 35 #6915

(with Kukles, I. S.) On the absence of limit cycles for a differential equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 46-49. (Wolfdietrich Müller) 35 #5694

Sahtarin, B. I.

(with Kobyšev, V. A.) Investigation of a nonlinear system. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1132-1133. (H. A. Antosiewicz) 33 #6032.

Šahverdiev, V. M.

Conditions for monotonicity of a certain form of generalized polynomials of S. N. Bernšteĭn type and their derivatives. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1968, *no.* 5, 16-21. (A. E. Danese) 40 #6125

Conditions for the monotonicity of a sequence of generalized S. N. Bernšteĭn-A. O. Gel′fond polynomials. (Russian) *Mat. Zametki* 5 (1969), 747-752. (J. T. Scheick) 40 #6126

(with Ibragimov, I. I.; Gadžiev, A. D.) The conditions for monotonicity of the sequence of derivatives of A. O. Gel′fond-S. N. Bernšteĭn polynomials. *Dokl. Akad. Nauk SSSR* 199 (1971), 762-765 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1162-1166. (J. W. Jerome) 44 #4433

Sai, Yousin

On regular categories. *Osaka J. Math.* 7 (1970), 301-306. (B. Stenström) 43 #2047

(with Harada, Manabu) On categories of indecomposable modules. I. *Osaka J. Math.* 7 (1970), 323-344. (E. A. Walker) 44 #4066)

Saiasov, Iu. S. See Sajasov, Ju. S.

Saibel, Edward

(with Parmet, I. L.) Axisymmetric creeping glow from an orifice in a plane wall. *Comm. Pure Appl. Math.* 18 (1965), 17-23. (G. Birkhoff) 31 #1846

(with Parmet, I. L.) The Newton-Raphson approximation applied to the Navier-Stokes equations with application to the base flow problem. (German and Russian summaries) *Z. Angew. Math. Mech.* 48 (1968), 1-9. (W. Velte) 38 #4096

Saĭdamatov, M.

On the Liouville extension of a system of differential equations. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1961, *no.* 4, 12-18. (I. Bandić) 31 #4975

Saĭdašev, L. M.

On a method of numerical solution of differential equations. (Russian) *Voprosy Vyčisl. Mat. Tehn. Vyp.* 1 (1964), 93-103. (E. L. Albasiny) 33 #3468

Saĭdl, Lev K. See Seidl, Lev K.

Šaĭdukov, G. M.

The approximate solution of a certain nonlinear problem of parabolic type by S. A. Čaplygin's method. (Russian) *Trudy Kazan. S.-h. Inst. Vyp.* 42 (1960), 184-200. (G. W. Hedstrom) 41 #613

An application of Academician S. A. Čaplygin's method to the approximate solution of partial differential equations of biharmonic type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 2, 123-132 (1966). (A. Langenbach) 37 #4975

(with Šaĭdukov, K. M.) Differentiable bases in the space of continuous functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 5, 67-83. (V. Gapoškin (RŽMat 1969 #3 B68)) 43 #2485

Šaĭdukov, K. M.

A criterion for a basis in the space of continuous functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 178-182. (G. Biriuk) 33 #1713

On the Lebesgue constants of bases in the space of continuous functions. (Russian) *Functional Anal. Theory of Functions, No. I (Russian), pp.* 122-133. *Izdat. Kazan. Univ., Kazan,* 1963. (A. Pełczyński) 34 #6493

On the order of growth of the degrees of a polynomial basis. (Russian) *Functional Anal. Theory of Functions, No. I (Russian), pp.* 134-138. *Izdat. Kazan. Univ., Kazan,* 1963. (A. Pełczyński) 34 #8168

Bases, in the space of continuous functions, constructed from arcs of parabolas. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 2, 133-142 (1966). (S. Rolewicz) 37 #4587

Lebesgue constants of bases in the space of continuous functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 2, 143-148 (1966). (S. Rolewicz) 37 #3325

(with Šaĭdukov, G. M.) Differentiable bases in the space of continuous functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 5, 67-83. (V. Gapoškin (RŽMat 1969 #3 B68)) 43 #2485

Šaĭfer, M. P.

On the second moments of an estimate of the spectral function. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 536-539. (Author's summary) 32 #6559

Saĭfutdinov, A.

The flow about a permeable semicircle due to a source. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 5, 24-32. (J. V. Wehausen) 31 #6451

Saĭfutdinov, M. A.

The existence of fundamental domains of a finitely generated Klein group. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 283-284. (R. A. Whiteman) 41 #2004

Saigal, Romesh

(with Sakarovitch, M.) An extension of generatized upper bounding techniques for structured linear programs. *SIAM J. Appl. Math.* 15 (1967), 906-914. (N. Kyed) 37 #1163

A proof of the Hirsch conjecture on the polyhedron of the shortest route problem. *SIAM J. Appl. Math.* 17 (1969), 1232-1238. (D. R. Fulkerson) 41 #1440

A note on a special linear complementarity problem. *Opsearch* 7 (1970), 175-183. (K. Swarup) 43 #8367

Saigo, Megumi

On the finite difference approximation to the generalized solution of the Fichera problem. *Kumamoto J. Sci. Ser. A* 8 (1967/69), 119-128. (P. Laasonen) 41 #4826

Šaĭn, B. M.

On the theory of generalized groups. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 296-299. (G. B. Preston) 30 #1200

On the theory of transformation semigroups. (Russian) *Works of Young Scientists (Russian), pp.* 120-122. *Izdat. Saratov. Univ., Saratov,* 1964. (S. Lajos) 36 #3904

Remark on a paper of V. Zelmer. (Russian. Romanian and English summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 265-268. (F. Haimo) 32 #1282

Involutary semigroups of complete binary relations. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1300-1303. (K. Drbohlav) 29 #1278

The representation of ordered semigroups. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 188-197. (F. Šik) 30 #2093

Generalized groups with the well-ordered set of idempotents. (Russian summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 14 (1964), 259-262. (R. Artzy) 31 #5914

(The sign } indicates an entry in the supplement.)

On translations in semi-groups and groups. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 163-169. (E. J. Tully, Jr.) 34 #7691

On the theory of generalized groups and generalized heaps. (Russian) *Theory of Semigroups and Appl. I (Russian), pp.* 286-324. *Izdat. Saratov. Univ., Saratov,* 1965. (E. J. Tully, Jr.) 35 #283

Relation algebras. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 1-5. (R. C. Lyndon) 31 #2188

Semigroups of rectangular binary relations. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1011-1014. (K. A. Ross) 32 #5762

Restrictive bi-semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 168-179. (J. Wiegold) 30 #4847

Atomic semigroups and involutory semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46), 172-184. (Št. Schwarz) 32 #5763

A class of commutative semigroups. (Russian) *Publ. Math. Debrecen* 12 (1965), 87-88. (Št. Schwarz) 32 #5764

Positive axioms for generalized groups. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 589-590. (H. H. Campaigne) 33 #1390

On certain classes of semigroups of binary relations. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 616-635. (R. S. Pierce) 33 #1391

On certain comitants of semigroups of binary relations. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad´* 1, 73-91 (1965). (M. Kolibiar) 35 #2810

On the Birkhoff-Kogalovskiĭ theorem. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 173-174. (V. Dlab) 34 #1250

Algebras of relations. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 130-168. *Tartu. Gos. Univ., Tartu,* 1966. (Št. Schwarz) 34 #2753

Theory of semigroups as a theory of superpositions of many-place functions. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 169-190. *Tartu. Gos. Univ., Tartu,* 1966. (Št. Schwarz) 34 #2741

O-rings and *LA*-rings. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 2 (51), 111-122. (E. J. Tully, Jr.) 35 #1635

Transformative semigroups of transformations. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 65-82. (Št. Schwarz) 34 #2742

Homomorphisms and subdirect decompositions of semigroups. *Pacific J. Math.* 17 (1966), 529-547. (D. B. McAlister) 33 #5768

Subdirectly irreducible infinite bands: An example. *Proc. Japan Acad.* 42 (1966), 1118-1119. (R. P. Sullivan) 35 #5535

Semigroups of strong subsets. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 180-186. (R. P. Sullivan) 36 #289

Restrictive bisemigroups of mappings. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 1 (56), 115-121. (L. Procházka) 35 #1690

(with Gluskīn, L. M.; Ševrin, L. N.) Semigroups. (Russian) *Algebra. Topology. Geometry.* 1966 *(Russian), pp.* 9-56. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. (G. E. Dimitroff) 38 #5956

Representation of semigroups. (Russian) *First All-Union Symposium on the Theory of Semigroups (Russian), pp.* 79-89. *Ural. Gos. Univ., Sverdlovsk,* 1969. (R. P. Sullivan) 41 #8548

Commutative semigroups where congruences form a chain. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 523-527. (G. B. Preston) 40 #5753

(with Howie, J. M.) Anti-uniform semilattices. *Bull. Austral. Math. Soc.* 1 (1969), 263-268. (D. R. LaTorre) 40 #1309

Restrictive bisemigroups of quasi-single-valued binary relations. I. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 5 (84), 73-84. (L. Procházka) 40 #5762

On some problems in the theory of partial automata. (Czech summary) *Kybernetika (Prague)* 5 (1969), 44-49. (H. Langmaack) 40 #4121

(with Garvackiĭ, V. S.) Injective and surjective morphisms in abstract categories. (Russian) *Colloq. Math.* 22 (1970), 51-57. (J. R. Isbell) 42 #6068

Stationary subsets, stabilizers and transitive representations of semigroups. *Dissertationes Math. Rozprawy Mat.* 77 (1970), 38 *pp.* (H.-J. Hoehnke) 44 #4129

Ordered sets, semilattices, distributive lattices and Boolean algebras with homomorphic endomorphism semigroups. *Fund. Math.* 68 (1970), 31-50. (D. J. Foulis) 42 #7567

Restrictively multiplicative algebras of transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 4 (95), 91-102. (B. Zelinka) 43 #379

A construction for idempotent binary relations. *Proc. Japan Acad.* 46 (1970), 246-247. (D. G. Johnson) 42 #6136

Relation algebras and function semigroups. *Semigroup Forum* 1 (1970), *no.* 1, 1-62. (P.-A. Grillet) 44 #2856

(with Plemmons, R. J.) Groups of binary relations. *Semigroup Forum* 1 (1970), *no.* 3, 267-271. (Št. Schwarz) 43 #6351

Automorphisms of polynomial semigroups. *Semigroup Forum* 1 (1970), *no.* 3, 279-281. (K. D. Magill, Jr.) 43 #380 (E)

Representation of ordered projection semigroups. (Russian) *Mat. Sb. (N.S.)* 84(126) (1971), 559-574. (M. Kolibiar) 44 #1613

Erratum to "Automorphisms of polynomial semigroups". *Semigroup Forum* 2 (1971), *no.* 4, 376. (K. D. Magill, Jr.) 44 #4123

A note on radicals in regular semigroups. *Semigroup Forum* 3 (1971/72), *no.* 1, 84-85. (G. J. Lallement) 44 #5397

(with O'Carroll, L.) On exclusive semigroups. *Semigroup Forum* 3 (1971/72), *no.* 4, 338-348. (M. Yamada) 44 #4122

Šain, Ju. F.

An investigation of a system of equations describing the motion of a spherical pendulum in the case of the presence of a resistance. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1477-1483. (D. P. Rašković) 36 #3529

Investigation of the motions of a spherical pendulum in the presence of a switching rotating force. (Russian) *Differencial´nye Uravnenija* 4 (1968), 215-224. (K. Magnus) 37 #2489

Sain, Michael K.

Performance moment recursions, with application to equalizer control laws. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 327-336. *Univ. of Illinois, Urbana, Ill.,* 1967. (Author's summary) 41 #8121

(with Massey, James L.) Trunk and tree searching properties of the Fano sequential decoding algorithm. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 153-160. *Univ. of Illinois, Urbana, Ill.,* 1968. (Authors' summary) 41 #8141

(with Massey, James L.) A modified inverse for linear dynamical systems. *Proc.* 1969 *IEEE Sympos. on Adaptive Processes (8th): Decision and Control (Pennsylvania State Univ., University Park, Pa.,* 1969*), pp.* 5a1-5a3. *Inst. Electr. Electron. Engrs., New York,* 1969. (Authors' summary) 41 #9606

(with Massey, James L.) Invertibility of linear time-invariant dynamical systems. *IEEE Trans. Automatic Control* AC-14 (1969), 141-149. (G. Berman) 39 #7968

Matrix identities. *IEEE Trans. Automatic Control* AC-15 (1970), 282. (Editors) 43 #239

(with Liberty, Stanley R.) Performance-measure densities for a class of LQG control systems. *IEEE Trans. Automatic Control* AC-16 (1971), 431-439. (Richard Gran) 44 #5157

Saint-Donat, Bernard

Sur les équations définissant une courbe algébrique. *C. R. Acad. Sci. Paris Sér. A - B* 274 (1972), A324-A327. (Y. Nakai) 44 #6705a

Sur les équations définissant une courbe algébrique. *C. R. Acad. Sci. Paris Sér. A - B* 274 (1972), A487-A489. (Y. Nakai) 44 #6705b

Saint-Guily, B.

Les courants marins induits par le vent. Théorie et problème d'Ekman. *J. Mécanique* 1 (1962), 99-108. (O. M. Phillips) 27 #1296

Ondes liquides de gravité en milieu inhomogène et dans un bassin tournant. *J. Mécanique* 2 (1963), 425-435. (L. R. Mack) 29 #1829

Ondes de gravité dans un bassin tournant d'axe incliné sur la verticale; effet de la variation de l'inclinaison avec la latitude. *J. Mécanique* 4 (1965), 295-303. (Chia-Shun Yih) 33 #3557

Saint-Loup, Bernard

Fonctions analytiques dans un ouvert connexe du plan. *Séminaire Choquet:* 1966/67, *Initiation à l'Analyse, Fasc.* 2, *Exp.* 15, 9 *pp. Secrétariat mathématique, Paris,* 1968. (Editors) 38 #4981

(with Exbrayat, Jean-Marie) Axiomatique Brelot-Bauer. *Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny:* 1966/67, *Exp.* 6, 13 *pp. Secrétariat mathématique, Paris,* 1968. (Authors' introduction) 38 #1282

Sur le problème de Dirichlet de la frontière de Choquet. *Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny:* 1967/68, *Exp.* 7, 11 *pp. Secrétariat mathématique, Paris,* 1969. (H. E. Lacey) 41 #832

Saint-Raymond, Jean

(with Dermenjian, Yves) Produit tensoriel de deux cônes convexes saillants. *Séminaire Choquet:* 1969/70, *Initiation à l'Analyse, Fasc.* 2, *Exp.* 20, 6 *pp. Secrétariat mathématique, Paris,* 1970. (H. H. Schaefer) 43 #7449

Topologie sur l'ensemble des compacts non vides d'un espace topologique séparé. Exemple de complémentaire analytique non analytique dans un espace polonais. *Séminaire Choquet:* 1969/70, *Initiation à l'Analyse, Fasc.* 2, *Exp.* 21, 6 *pp. Secrétariat mathématique, Paris,* 1970. (R. Engelking) 44 #980

(See also Dehen, Michèle, 44 #3769)

Sainz Eguizábal, Alvaro

Homologies of second order or β-homologies. (Spanish) *Gac. Mat. (Madrid)* (1) 19 (1967), 133-144. (G. Zappa) 37 #3425

A system of quadrics in relation to questions of spatial homographies. (Spanish) *Gac. Mat. (Madrid)* (1) 20 (1968), 17-20. (B. d'Orgeval) 38 #1587

Saipe, A. L.

(with Cunningham, A. A.) Touring strategies on networks with stochastically varying node states. (French summary) *CORS J.* 8 (1970), 67-74. (Authors' summary) 42 #7243

Saito, Kazuo

(with Nakamura, Masato) A note on the submersions of bundle spaces. *Sci. Rep. Niigata Univ. Ser. A No.* 6 (1968), 17-22. (R. L. E. Schwarzenberger) 39 #4866

Saitô, Kazuyuki

On the preduals of W^*-algebras. *Tôhoku Math. J.* (2) 19 (1967), 324-331. (M. Rosenfeld) 37 #2006

Non-commutative extension of Lusin's theorem. *Tôhoku Math. J.* (2) 19 (1967), 332-340. (M. Rosenfeld) 37 #2007

On a duality for locally compact groups. *Tôhoku Math. J.* (2) 20 (1968), 355-367. (S. Sankaran) 39 #357

On the algebra of measurable operators for a general AW*-algebra. *Tôhoku Math. J.* (2) 21 (1969), 249-270. (S. K. Berberian) 40 #758

A non-commutative integration theory for a semi-finite AW*-algebra and a problem of Feldman. *Proc. Japan Acad.* 46 (1970), 463-467. (Z. Takeda) 44 #5791

A non-commutative theory of integration for a semi-finite AW*-algebra and a problem of Feldman. *Tôhoku Math. J.* (2) 22 (1970), 420-461. (S. K. Berberian) 43 #939

Saito, M.

(with Youla, D. C.) Interpolation with positive-real functions. *J. Franklin Inst.* 284 (1967), 77-108. (J. H. Curtiss) 41 #484

Saito, Masahiko

Représentations unitaires du groupe des déplacements du plan 𝔭-adique. *Proc. Japan Acad.* 39 (1963), 407-409. (R. Steinberg) 29 #3577

Représentations unitaires du groupe des déplacements dans un plan 𝔭-adique. *J. Math. Soc. Japan* 19 (1967), 411-425. (R. Steinberg) 36 #3926

Représentations unitaires des groupes symplectiques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A500-A503. (H. Leptin) 38 #3379

Saito, Reiko. See Morita, Reiko.

Saito, Satoru

(with Akiba, Tomoya) Bootstrap particles and elementary particles in the $Z_3 = 0$ limit. Discussion in a soluble model. *Progr. Theoret. Phys.* 33 (1965), 307-318. (D. Lurié) 32 #6976

Saito, Setsuo

Truth value assignment in predicate calculus of first order. *Notre Dame J. Formal Logic* 4 (1963), 216-223. (E. J. Cogan) 29 #3355

On the completeness of the Leibnizian modal system with a restriction. *Proc. Japan Acad.* 42 (1966), 198-200. (K. Lorenz) 38 #3138

On the Leibnizian modal system. *Notre Dame J. Formal Logic* 9 (1968), 92-96. (F. R. Drake) 39 #5325

A theory of categorical syllogism. *Notre Dame J. Formal Logic* 10 (1969), 327-330. 39 #6734

Saito, Shiroshi

Remarks on loop spaces. *J. Fac. Sci. Shinshu Univ.* 1 (1966), 15-17. (R. E. Mosher) 36 #3356

Saito, Takeshi

Some applications of generalized inverse to system theory. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 255-263. (From the author's summary) 42 #5678

Saito, Tatsuhiko

On a lattice ordered groupoid. *Osaka J. Math.* 6 (1969), 303-314. (T. S. Blyth) 41 #3349

Saitô, Teishirô

(with Yoshino, Takashi) Note on the canonical decomposition of contraction. *Tôhoku Math. J.* (2) 16 (1964), 309-312. (J. M. G. Fell) 30 #5166

(with Yoshino, Takashi) On a conjecture of Berberian. *Tôhoku Math. J.* (2) 17 (1965), 147-149. (M. Schreiber) 32 #4547

Some remarks on a representation of a group. II. *Tôhoku Math. J.* (2) 17 (1965), 206-209. (J. T. Schwartz) 32 #8197

Some remarks on Andô's theorems. *Tôhoku Math. J.* (2) 18 (1966), 404-409. (J. R. Ringrose) 35 #786

(with Istrăţescu, Vasile; Yoshino, Takashi) On a class of operators. *Tôhoku Math. J.* (2) 18 (1966), 410-413. (J. R. Ringrose) 35 #756

Numerical ranges of tensor products of operators. *Tôhoku Math. J.* (2) 19 (1967), 98-100. (C. Pearcy) 37 #4654

Generators of certain von Neumann algebras. *Tôhoku Math. J.* (2) 20 (1968), 101-105. (D. M. Topping) 37 #2010

On generators of von Neumann algebras. *Michigan Math. J.* 15 (1968), 373-376. (N. Suzuki) 38 #5019

Operators satisfying the growth condition (G_1). *Proc. Japan Acad.* 47 (1971), 64-66. (V. Istrăţescu) 44 #2072

Saitô, Tôru

On some equivalence relations in semigroups. *Bull. Tokyo Gakugei Univ.* 14 (1963), 1-5. (G. B. Preston) 29 #177

The number of tree semilattices. *Proc. Japan Acad.* 39 (1963), 639-640. (G. B. Preston) 30 #3038

Proper ordered inverse semigroups. *Pacific J. Math.* 15 (1965), 649-666. (W. D. Munn) 33 #204

A remark on elementary pseudogroups. *Colloq. Math.* 15 (1966), 189-190. (B. M. Schein (Šaĭn)) 34 #1429

(with Tsukada, Kishio) A counter-example for a theorem of Vinogradov. *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 1-2. (J. C. Ault) 36 #90

(with Taguchi, Toriichi) On half-automorphisms in the bicyclic semigroup. (Japanese. English summary) *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 11-12. (T. Tamura) 35 #6770

Ordered regular proper semigroups. *J. Algebra* 8 (1968), 450-477. (P. F. Conrad) 37 #2883

The archimedean property in an ordered semigroup. *J. Austral. Math. Soc.* 8 (1968), 547-556. (D. R. LaTorre) 37 #6221

Note on the minimal conditions for principal ideals in a semigroup. *Math. Japon.* 13 (1968), 95-104. (Donald W. Miller) 40 #260

Neighbouringly normal archimedean ordered semigroups. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 105-110. (P. F. Conrad) 39 #5440

Note on the Archimedean property in an ordered semigroup. *Proc. Japan Acad.* 46 (1970), 64-65. (T. S. Blyth) 41 #6745

Ordered semigroups generated by two elements of finite order. I. *Bull. Tokyo Gakugei Univ.* (4) 22 (1970), 1-7. (D. R. LaTorre) 42 #3000

Note on the Archimedean property in an ordered semigroup. *Bull. Tokyo Gakugei Univ.* (4) 22 (1970), 8-12. (D. R. LaTorre) 42 #3001

Ordered inverse semigroups. *Trans. Amer. Math. Soc.* 153 (1971), 99-138. (T. S. Blyth) 42 #5873

Saito, Tosiya

On dynamical systems in n-dimensional torus. *Funkcial. Ekvac.* 7 (1965), 91-102. (L. A. MacColl) 32 #264

On an isolated singular point of a non-autonomous periodic system. *Funkcial. Ekvac.* 9 (1966), 199-206. (J. Stuelpnagel) 35 #4523

On the flow outside an isolated minimal set. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 301-311. *Benjamin, New York,* 1967. (T. Ura) 37 #1736

Isolated minimal sets. *Funkcial. Ekvac.* 11 (1968), 155-167 (1969). (T. Ura) 40 #1669

On a compact invariant set isolated from minimal sets. *Funkcial. Ekvac.* 12 (1969), 193-203. (S. Ahmad) 41 #2657 (E)

A supplement to the paper: "On a compact invariant set isolated from minimal sets". *Funkcial. Ekvac.* 13 (1970), 127-129. (S. Ahmad) 43 #5512

On the structure of compact dynamical systems. *Funkcial. Ekvac.* 13 (1970/71), 147-170. (L. King) 43 #7733

Saitō, Yoshimi

On the diagonalization of the measure matrix in the eigenfunction expansion for ordinary differential equations of the second order. *Publ. Res. Inst. Math. Sci. Ser. A* 1 (1965/66), 149-162. (D. O. Banks) 34 #1602

Some remarks on the orthogonality of generalized eigenfunctions for singular second-order differential equations. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966), 255-267. (R. C. Gilbert) 35 #3132

Sainouchi, Yoshikazu

A remark on square integrable analytic semiexact differentials on open Riemann surfaces. *J. Math. Kyoto Univ.* 4 (1964), 117-121. (H. L. Royden) 31 #1372

On the general Riemann's period relation for square integrable harmonic differentials on open Riemann surfaces. *J. Math. Kyoto Univ.* 6 (1966), 13-29. (R. Accola) 34 #2864

(with Kusunoki, Y.) Holomorphic differentials on open Riemann surfaces. *J. Math. Kyoto Univ.* 11 (1971), 181-194. (I. Kra) 42 #6219

Šajahmetov, T. K.

Undecidability of certain theories with a supplemental predicate. (Russian. Kazakh summary) *Vestnik Akad. Nauk Kazah. SSR* 24 (1968), *no.* 3 (275), 48-50. (A. P. Ershov) 37 #1245

Šajasjuk, S. G.

A differential operator with spectral singularities in a space of vector functions. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 39-42. (M. M. Day) 36 #5766

Sajasov, Ju. S.

(with Vasil'eva, A. B.) The theory of the quenching of electronic processes in jets of low temperature plasma. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1968, *no.* 1, 26-34. (L. Finkelstein) 44 #548

Sajben, Miklos

An exact solution for axially symmetric equilibrium electron density distributions. *Phys. Fluids* 11 (1968), 2501-2502. (Author's summary) 38 #1303

Šajda, J.

The solution of integral equations by means of orthogonal series. (Slovak. German and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian.* 15, 31-40 (1967). (H. Švecová) 37 #1107

Saka, E. V.

Construction of periodic solutions of difference equations by the small parameter method. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1970, *no.* 3, 76-79. (R. Kodnár) 44 #672

Construction of periodic solutions of difference equations with small parameter. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1971, *no.* 2, 23-31. (R. Kodnár) 44 #7169

(with Rjabov, Ju. A.) Construction of periodic solutions of difference equations in the critical case. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1971, *no.* 2, 67-69. (R. Kodnár) 44 #7170

Sakaguchi, K.

(with Kôno, K.) On construction of designs by stepwise method. *Math. Rep. College General Ed. Kyushu Univ.* 7 (1969), 1-12. (A. M. Mathai) 42 #8627

Sakaguchi, Kōichi

On certain multivalent functions. *J. Nara Gakugei Univ.* 8 (1959), *no.* 2, 19-23. (A. Kobori) 31 #3590

A variational method for functions with positive real part. *J. Math. Soc. Japan* 16 (1964), 287-297. (M. S. Robertson) 31 #1375

The radius of convexity for a certain class of regular functions. *J. Nara Gakugei Univ. Natur. Sci.* 12 (1964), 5-8. (M. S. Robertson) 34 #1510

(with Reade, Maxwell O.; Ogawa, Shôtarô) The radius of convexity for a certain class of analytic functions. *J. Nara Gakugei Univ. Natur. Sci.* 13 (1965), 1-3. (M. S. Robertson) 34 #1509

(with Watanabe, Shigeyoshi) On close-to-convex functions. *J. Nara Gakugei Univ. Natur. Sci.* 14 (1966), 7-12. (M. Reade) 34 #6065

On extremal problems in the classes of functions with positive real part and typically real ones. I, II. *Bull. Nara Univ. Ed. Natur. Sci.* 17 (1969), *no.* 2, 1-12; *ibid.* 18 (1969), *no.* 2, 1-6. (W. E. Kirwan) 44 #5471

Sakaguchi, Minoru

Information pattern, learning structure, and optimal decision rule. *Information and Control* 6 (1963), 218-229. (D. V. Lindley) 29 #2113

Some examples of Bayesian adaptive programming. *Information and Control* 9 (1966), 230-245. (H. D. Block) 34 #7265

Relative efficiency of the Wald SPRT and the Chernoff information number. *Kōdai Math. Sem. Rep.* 19 (1967), 138-146. (R. H. Berk) 35 #7453

Interaction information in multivariate probability distributions. *Kōdai Math. Sem. Rep.* 19 (1967), 147-155. (L. L. Campbell) 35 #7507

When to stop: A zero-sum game model. *J. Operations Res.Soc. Japan* 14 (1971), 143-162. (A. C. Williams) 44 #3710

Sakai, Eiichi

* Tahensū kansū ron. (Japanese) [Studies in functions of several variables] Kyōritsu Zensho Series, No. 159. *Kyōritsu Shuppan Co., Ltd., Tokyo,* 1966. i + 2 + 200 pp. (J. Kajiwara) 35 #3081

Problem of quotient representation and meromorphic completion. *Sci. Rep. Kanazawa Univ.* 11, 93-97 (1966). (R. O. Wells, Jr.) 36 #1700

(with Kajiwara, Joji) Generalization of Levi-Oka's theorem concerning meromorphic functions. *Nagoya Math. J.* 29 (1967), 75-84. (P. Lelong) 39 #4430

Meromorphic or holomorphic completion of a Reinhardt domain. *Nagoya Math. J.* 38 (1970), 1-12. (H. B. Laufer) 41 #8707

Sakai, Hidehisa

Über den Relativisationssatz. *Ann. Japan Assoc. Philos. Sci.* 3, 72-76 (1967). (From the author's introduction) 35 #2731

Sakai, Kôkichi

On the representations of the motion group of n-dimensional Euclidean space. I. *Sci. Rep. Kagoshima Univ. No.* 16 (1967), 25-33. (S. Sankaran) 37 #2905

Sakai, Makoto

On constants in extremal problems of analytic functions. *Kōdai Math. Sem. Rep.* 21 (1969), 223-225. (L. Sario) 40 #341 (E)

Correction to: "On constants in extremal problems of analytic functions". *Kōdai Math. Sem. Rep.* 22 (1970), 128. (Editors) 41 #3751

Sakai, Manabu

Error estimation on piecewise Hermite interpolation. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 23 (1969), 71-78. (R. Franke) 42 #6467

Spline interpolation and two-point boundary value problems. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 17-34. (F. de Hoog) 42 #8702

Multi-dimensional cardinal spline function and its applications. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 40-46. (H. C. Kranzer) 43 #4268

Sakai, Masao

On a theorem of E. Michael and K. Nagami. *Proc. Japan Acad.* 46 (1970), 502-504. (K. Nagami) 43 #8047

Sakai, Shôichirô

Weakly compact operators on operator algebras. *Pacific J. Math.* 14 (1964), 659-664. (P. C. Deliyannis) 29 #488

A Radon-Nikodým theorem in W^*-algebras. *Bull. Amer. Math. Soc.* 71 (1965), 149-151. (J. M. G. Fell) 30 #5180

On topologies of finite W^*-algebras. *Illinois J. Math.* 9 (1965), 236-241. (P. C. Deliyannis) 30 #5181

On the central decomposition for positive functionals on C^*-algebras. *Trans. Amer. Math. Soc.* 118 (1965), 406-419. (A. E. Nussbaum) 31 #3886

On a problem of Calkin. *Amer. J. Math.* 88 (1966), 935-941. (E. Størmer) 34 #8209

Derivations of W^*-algebras. *Ann. of Math.* (2) 83 (1966), 273-279. (J. R. Ringrose) 33 #1748

On a characterization of type I C^*-algebras. *Bull. Amer. Math Soc.* 72 (1966), 508-512. (J. Glimm) 33 #588

On pure states of C^*-algebras. *Proc. Amer. Math. Soc.* 17 (1966), 86-87. (J. M. G. Fell) 32 #6249

On a problem of Calkin. *Functional Analysis (Proc. Conf., Irvine, Calif., 1966), pp. 131-137. Academic Press, London; Thompson Book Co., Washington, D. C.* 1967. (S. Anastasio) 36 #4347

On a characterization of type I C^*-algebras. *Functional Analysis (Proc. Conf., Irvine, Calif., 1966), pp. 138-143. Academic Press, London; Thompson Book Co., Washington, D. C.,* 1967. (S. Anastasio) 36 #4348

On type I C^*-algebras. *Proc. Amer. Math. Soc.* 18 (1967), 861-863. (D. M. Topping) 35 #4741

Derivations of uniformly hyperfinite C^*-algebras. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 167-175. (S. Sankaran) 37 #4636

On the tensor product of W^*-algebras. *Amer. J. Math.* 90 (1968), 335-341. (M. Takesaki) 37 #5701

Derivations of simple C^*-algebras. *J. Functional Analysis* 2 (1968), 202-206. (R. Arens) 36 #6953

On the hyperfinite II_1-factor. *Proc. Amer. Math. Soc.* 19 (1968), 589-591. (S. Anastasio) 37 #2011

Asymptotically abelian II_1-factors. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 299-307. (S. Anastasio) 40 #1785

On global W^*-algebras. *J. Functional Analysis* 3 (1969), 79-84. (E. Størmer) 38 #6364

An uncountable number of II_1, II_∞ factors. *Functional Analysis (Proc. Sympos., Monterey, Calif., 1969),* 55-63. *Academic Press, New York,* 1970. (S. Anastasio) 42 #859

An uncountable family of non-hyperfinite type III factors. *Functional Analysis (Proc. Sympos., Monterey, Calif., 1969),* 65-70. *Academic Press, New York,* 1970. (S. Anastasio) 42 #8304

An uncountable number of II_1 and II_∞ factors. *J. Functional Analysis* 5 (1970), 236-246. (Z. Takeda) 41 #4262

Sakai, Shozo

Systems of postulates for a ternary relation characterizing a partial order. *Rep. Fac. Sci. Shizuoka Univ.* 1 (1965), *no.* 1, 1-4. (R. P. Dilworth) 33 #7276

A single identity for a binary relation to be an equivalence. *Rep. Fac. Sci. Shizuoka Univ.* 2, 23-24 (1967). (J. Froemke) 38 #3205

An axiomatic characterization of the large inductive dimension for metric spaces. *Proc. Japan Acad.* 44 (1968), 782-785. (D. W. Henderson) 38 #6558

On extensions of mappings into n-cubes. *Proc. Japan Acad.* 44 (1968), 939-943. (J. Greever) 39 #934

A note on C-compact spaces. *Proc. Japan Acad.* 46 (1970), 917-920. (J. E. Vaughan) 44 #5925

Sakai, Takashi

Some transformations on K-contact and normal contact Riemannian manifolds. *Tôhoku Math. J.* (2) 18 (1966), 216-224. (P. Scherk) 34 #6693

Sakai, Toshiyuki

(with Sugata, Kazuhiro) An analysis of threshold-element networks. *Electron. Commun. Japan* 51 (1968), *no.* 5, 103-111. (C. L. Sheng) 41 #1441

Sakaljuk, K. D.

Generalization of Abel's integral equation. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 95-102. (J. Ignaczak) 35 #3395

Certain singular integral equations with polar, exponential and logarithmic kernels. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 103-109. (J. Ignaczak) 35 #3396

Integral equations with logarithmic and polar-logarithmic kernels. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 70 (1964), 17-23. (F. Gahov (RŽMat 1964 #10 B272)) 36 #5634

The generalized Abel integral equation with inner coefficients. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 60-68. (L. von Wolfersdorf) 37 #3294

The inversion of a Cauchy type integral. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 91 (1967), 64-66. (D. Mitrović) 41 #7079

Sakalyuk, K. D. See Sakaljuk, K. D.

Sakamoto, Heihati

Contribution to the theory of systematic sampling and bedding methods in quality control. (French summary) *Proc. Fac. Engrg. Keio Univ.* 13 (1960), 111-156. 29 #2098

Sakamoto, Reiko

(with Hasegawa, Yôjiro) On the existence of a global true solution in the mixed problem concerning a certain type of semi-linear partial differential equation. (Japanese) *Sûgaku* 15 (1963/64), 161-165. (Y. Sibuya) 29 #3767

On general boundary value problem for parabolic equations. *J. Math. Kyoto Univ.* 4 (1964), 207-243. (R. Výborný) 33 #6156

(with Mizohata, Sigeru) Propriétés asymptotiques des valeurs propres des opérateurs elliptiques auto-adjoints. *J. Math. Kyoto Univ.* 4 (1964), 245-254. (A. Kufner) 31 #3712

On boundary value problem for parabolic equations. *Proc. Japan Acad.* 40 (1964), 460-464. (K. Rektorys) 30 #3303

On the boundary value problems of parabolic equations. (Japanese) *Sûgaku* 17 (1965), 83-97. (S. Mizohata) 35 #5771

Local solutions for quasi-linear parabolic equations. *J. Math. Kyoto Univ.* 5 (1966), 325-338. (J. Elliott) 36 #1841

Mixed problems for hyperbolic equations. I. Energy inequalities. *J. Math. Kyoto Univ.* 10 (1970), 349-373. (S. Cinquini) 44 #632a

Mixed problems for hyperbolic equations. II. Existence theorems with zero initial datas and energy inequalities with initial datas. *J. Math. Kyoto Univ.* 10 (1970), 403-417. (S. Cinquini) 44 #632b

Sakamoto, Takeshi

(with Nagai, Takeaki) On the optimal control in a random linear system. *Mem. FAc. Sci. Kyushu Univ. Ser. A* 19 (1965), 49-60. (H. J. Kushner) 33 #2455

Sakamoto, Yukio

(with Nagashima, Hidetake; Yajima, Kin'ichi) On an equivalence of convergences in ranked spaces. *Proc. Japan Acad.* 43 (1967), 23-27. (Ky Fan) 35 #4874

(with Yajima, Kin'ichi; Nagashima, Hidetake) On the sets of points in the ranked space. *Proc. Japan Acad.* 43 (1967), 941-945. (S. A. Naimpally) 37 #4774

(with Nagashima, Hidetake; Yajima, Kin'ichi) On compactness in ranked spaces. *Proc. Japan Acad.* 43 (1967), 946-948. (S. A. Naimpally) 37 #4782

(with Nagashima, Hidetake; Yajima, Kin'ichi) On the sets of points in the ranked space. II, III. *Proc. Japan Acad.* 44 (1968), 788-791; *ibid.* 44 (1968), 792-795. (S. A. Naimpally) 39 #909

Sakarovitch, M.

(with Saigal, R.) An extension of generalized upper bounding techniques for structured linear programs. *SIAM J. Appl. Math.* 15 (1967), 906-914. (N. Kyed) 37 #1163

Sakashita, Hideo

A note on the theorem of Fatou-Pólya. *Bull. Kyoto Gakugei Univ. Ser. B No.* 24 (1964), 1-2. (M. E. Noble) 30 #2130

A condition for the non-continuability of power series. *Bull. Kyoto Gakugei Univ. Ser. B No.* 24 (1964), 3-5. (M. E. Noble) 30 #2131

Relations between the coefficients of a power series and the singularities on its circle of convergence. *Bull. Kyoto Gakugei Univ. Ser. B No.* 28 (1965), 1-9. (L. Alpár) 34 #1499

Notes on Pringsheim's theorem and Hadamard's gap-theorem. II. *Bull. Kyoto Univ. Education Ser. B No.* 33 (1968), 1-6. (M. E. Noble) 38 #4655

The theorem of Fatou-Pólya and Pólya-Hausdorff space. *Bull. Kyoto Univ. Education Ser. B No.* 33 (1968), 7-8. (M. E. Noble) 38 #3413

Sakata, Hiroshi

Tauberian theorems for Cesàro sums. I. *Proc. Japan Acad.* 41 (1965), 532-534. (E. Hille) 33 #3001

Tauberian theorems for Riesz means. *Mem. Defense Acad.* 5, *no.* 4, 335-340 (1966). (G. Sunouchi) 34 #533

On a Tauberian theorem for strong Rieszian summability. *Mem. Defense Acad.* 6 (1966/67), 435-442. (E. Hille) 35 #5812

Sakata, Shojiro

A constructive approach to non-teleparallelism and non-metric representations of plastic material manifold by generalized diakoptical tearing. I. Non-Riemannian tearing. (Japanese summary) *RAAG Res. Notes* (3) *No.* 146 (1970), i + 22 *pp.* (H. S. P. Grässer) 42 #5499

A constructive approach to non-teleparallelism and non-metric representations of plastic material manifold by generalized diakoptical tearing. II. Finslerian tearing. (Japanese summary) *RAAG Res. Notes* (3) *No.* 149 (1970), i + 27 *pp.* (H. S. P. Grässer) 42 #5500

Sakawa, Yoshiyuki

Solution of an optimal control problem in a distributed-parameter system. *IEEE Trans. Automatic Control* AC-9 (1964), 420-426. (Author's summary) 31 #3273

Optimal control of a certain type of linear distributed-parameter systems. *IEEE Trans. Automatic Control* AC-11 (1966), 35-41. 32 #9099

On a solution of an optimization problem in linear systems with quadratic performance index. *SIAM J. Control* 4 (1966), 382-395. (From the author's introduction) 33 #3818

Solution of an optimization problem in linear distributed-parameter systems. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 313-327. *Benjamin, New York*, 1967. (L. D. Berkovitz) 37 #5046

On linear differential games. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif., 1967), pp.* 373-385. *Academic Press, New York*, 1967. (A. Friedman) 40 #5275

(with Fukunishi, Koh-yu) Optimization of linear distributed-parameter systems by use of distributed control. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 87-93. (Authors' summary) 42 #4265

(with Kohno, Takeshi) Stochastic optimal control in the system with time delay. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 554-561. (Authors' summary) 42 #5689

(with Nagahisa, Youji) Nonlinear programming in Banach spaces. *J. Optimization Theory Appl.* 4 (1969), 182-190. (J. Stoer) 40 #5264

An application of the epsilon technique to the solution of pursuit and evasion problems. *J. Comput. System Sci.* 4 (1970), 557-569. (V. F. Dem′janov) 42 #8938

Solution of linear pursuit-evasion games. *SIAM J. Control* 8 (1970), 100-112. (F. M. Kirillova) 42 #1539

Sakharova, M. P. See Saharova, M. P.

Sakhnovich, L. A. See Sahnovič, L. A.

Šakibaliev, R. Š.

(with Tažimuratov, I.) The existence of periodic solutions of a certain system of second order partial differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 1, 78-81. (O. Vejvoda) 44 #7104

Sakino, Sigeki

On the solution of the epidemic equation. *Ann. Inst. Statist. Math. Suppl. No.* 5 (1968), 9-19. (K. Dietz) 38 #934

Sakita, Bunji

(with Goebel, C. J.) Discussion of a suggested bound on coupling constants. *Phys. Rev. Lett.* 11 (1963), 293-296. (K. J. Le Couteur) 32 #5106b

(with Desai, Bipin R.) Threshold Regge poles and the effective-range expansion. *Phys. Rev.* (2) 136 (1964), B226-B227. (V. de Alfaro) 31 #4367

Supermultiplets of elementary particles. *Phys. Rev.*(2) 136 (1964), B1756-B1760. (E. C. G. Sudarshan) 31 #4459

Electromagnetic properties of baryons in the supermultiplet scheme of elementary particles. *Phys. Rev. Lett.* 13 (1964), 643-646. (D. B. Lichtenberg) 30 #4518

A phenomenological approach to relativistic Su(6) theory. (With discussion) *Coral Gables Conferences on Symmetry Principles at High Energy*, 1965, *pp.* 354-360. *Freeman, San Francisco*, 1965. (P. Roman) 31 #5556

(with Michel, Louis) Group of invariance of a relativistic supermultiplet theory. *Ann. Inst. H. Poincaré Sect. A* 2 (1965), 167-170. (E. C. G. Sudarshan) 31 #4462

(with Wali, Kameshwar) Relativistic formulation of the SU(6) symmetry scheme. *Phys. Rev.* (2) 139 (1965), B1355-B1367. (R. Mirman) 33 #5300

(with Wali, K. C.) Phenomenological approach to a relativistic SU(6) theory. *Phys. Rev. Lett.* 14 (1965), 404-408. (T. K. Kuo) 31 #1986

(with Cook, T.; Goebel, C. J.) Lie group of the strong-coupling theory. *Phys. Rev. Lett.* 15 (1965), 35-38. (E. C. G. Sudarshan) 33 #3681

(with Cook, T.) Induced representations of strong coupling groups. *J. Mathematical Phys.* 8 (1967), 708-713. (Authors' summary) 35 #2565

(with Kikkawa, K.; Virasoro, M. A.) Feynman-like diagrams compatible with duality. I. Planar diagrams. *Phys. Rev.* (2) 184 (1969), 1701-1713. (G. Bandyopadhyay) 42 #4131

Sakmar, Ismail A.

Possible connections between the fermion trajectories. *Phys. Rev.* (2) 135 (1964), B249-B252. (J. W. Moffat) 29 #1925

(See also Conference on Symmetry Principles at High Energy, Coral Gables, 31 #4447)

Sakoto, Moussa

Transformations infinitésimales conformes d'une variété riemannienne quotient. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1407-A1409. (H. Wu) 43 #5460

Sakovič, G. N.

Strictly stable multidimensional Gaussian distributions with non-zero mathematical expectation. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 166-169. (Author's summary) 29 #2837

Functional equations for sums of exponentials. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 714-718. (M. Kuczma) 29 #3783

Functional equations for sums of exponentials. (Russian) *Publ. Math. Debrecen* 11 (1964), 1-9. (S. Kurepa) 30 #2253

On the width of a spectrum. I. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1965, 1427-1430. (Author's summary) 33 #1870 (with Aczél, J.; Haruki, H.; McKiernan, M. A.) General and regular solutions of functional equations characterizing harmonic polynomials. *Aequationes Math.* 1 (1968), 37-53. (I. M. Sheffer) 43 #5193

Sakovič, V. A.

(with Generozov, V. L.; Kolomenskiĭ, V. L.; Kuznecov, V. G.) An application of a Monte Carlo method to the computation of the risk of exceeding a given dose of protons of solar flashes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 247-250. 42 #1305

Sakrison, David J.

Efficient recursive estimation; application to estimating the parameters of a covariance function. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 461-483. (J. Wolfowitz) 31 #6306

Estimation of signals containing unknown parameters: Comparison of linear and arbitrary unbiased estimates. *J. Soc. Indust. Appl. Math.* 13 (1965), 706-719. (E. Parzen) 32 #3198

Correction to: "A continuous Kiefer-Wolfowitz procedure for random processes". *Ann. Math. Statist.* 37 (1966), 745. (Editors) 32 #6640

Efficient recursive estimation of the parameters of a radar or radio astronomy target. *IEEE Trans. Information Theory* IT-12 (1966), 35-41. (From the author's summary) 32 #7328

(with Algazi, Vidal R.) On the optimality of the Karhunen-Loève expansion. *IEEE Trans. Information Theory* IT-15 (1969), 319-320. (B. Forte) 41 #2805

An extension of the theorem of Kač, Murdock, and Szegő to *N* dimensions. *IEEE Trans. Information Theory* IT-15 (1969), 608-610. (Author's summary) 42 #5109

The rate distortion function for a class of sources. *Information and Control* 15 (1969), 165-195. (S. Csibi) 41 #6615

The rate of a class of random processes. *IEEE Trans. Information Theory* IT-16 (1970), 10-16. (Author's summary) 42 #7382

Saks, R. S.

A nonelliptic Dirichlet problem. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 786-789. (T. G. Gegelia) 37 #3019

A certain class of singular integro-differential equations. (Russian) *Differencial'nye Uravnenija* 5 (1969), 115-130. (W. Żakowski) 39 #7377

The Dirichlet problem for a certain class of elliptic systems of second order differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 72-85. (L. Pintér) 43 #704

The Dirichlet problem for the elliptic system of A. V. Bicadze with lower derivatives. (Russian) *Differencial'nye Uravnenija* 7 (1971), 121-134. (I. Aganović) 44 #1929

The boundary value problems for the system rot $u \dotplus \lambda u = h$. *Dokl. Akad. Nauk SSSR* 199 (1971), 1022-1025 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1240-1244. (C. A. Swanson) 44 #5633

On the oblique derivative problem. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 63 (1971), 285-288. (D. P. Squier) 44 #7117

Saks, Stanisław

* Theory of the integral. Second revised edition. English translation by L. C. Young. With two additional notes by Stefan Banach. *Dover Publications, Inc., New York,* 1964. xv + 343 *pp.* (Editors) 29 #4850

* (with Zygmund, Antoni) Analytic functions. Second edition, enlarged. Translated by E. J. Scott. Monografie Matematyczne, Tom 28. *Pánstw. Wydawn. Nauk., Warsaw,* 1965. ix + 508 *pp.* (Editors) 31 #4889

* (with Zygmund, A.) Fonctions analytiques. Traduit de l'anglais par M. Lahy. *Masson et* C^{ie}*, Éditeurs, Paris,* 1970. ii + 389 *pp.* (Editors) 42 #4708

Saks, Victor

(with Stephenson, R. M., Jr.) Products of $\mathfrak{M}$-compact spaces. *Proc. Amer. Math. Soc.* 28 (1971), 279-288. (K. D. Magill, Jr.) 42 #8448

Saksena, C. P.

(with Cole, A. J.) The bounding hyperplane method of linear programming. *Operations Res.* 19 (1971), 1-18. (Authors' summary) 42 #8890

Saksena, J. P.

Dynamic programming treatment of the job assignment problem. *Opsearch* 6 (1969), 129-136. (H. Taylor) 43 #5904

Mathematical model of scheduling clients through welfare agencies. (French summary) *CORS J.* 8 (1970), 185-200. (Author's summary) 42 #5623

Saksena, K. M.

An inversion theory for the Laplace integral. *Nieuw Arch. Wisk.* (3) 15 (1967), 218-224. (Brij Mohan) 37 #702

Saksonov, A. I.

Certain integer-valued rings associated with a finite group. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 529-532. (K. Drbohlav) 34 #7676

The integral ring of characters of a finite group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 3, 69-76. (L. G. Kovács) 35 #269

On group rings of finite *p*-groups over certain integral domains. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 204-207. (E. C. Dade) 35 #270

Group-algebras of finite groups over a number field. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 302-305. (I. Reiner) 35 #1681

An answer to a question of R. Brauer. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 1, 129-130. (K. Drbohlav) 35 #5527

A complete rational system of unitary invariants of a finite set of matrices. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 145-151. (R. F. Rinehart) 36 #6426

Sakuma, Motoyoshi

(with Okuyama, Hiroshi) On a criterion for analytically unramification of a local ring. *J. Gakugei Tokushima Univ.* 15 (1966), 36-38. (H. T. Muhly) 34 #189

(with Okuyama, Hiroshi) On the Betti series of local rings. *J. Math. Tokushima Univ.* 1 (1967), 1-10. (L. J. Ratliff, Jr.) 37 #6280 (E)

Arithmetic genera of some local rings. *J. Math. Tokushima Univ.* 2 (1968), 7-12. (H. S. Butts) 39 #5562

(with Okuyama, Hiroshi) Correction to "On the Betti series of local rings". *J. Math. Tokushima Univ.* 2 (1968), 31-32. (L. J. Ratliff, Jr.) 39 #4143

(with Okuyama, Hiroshi) A note on higher deflections of a local ring. *J. Math. Tokushima Univ.* 3 (1969), 25-36. (L. J. Ratliff, Jr.) 41 #3468

Šakun, A. R.

Bibliography of journal articles. (Russian) *Differencial'nye Uravnenija* 1 (1965), 847-848; *ibid.* 1 (1965), 990-992; *ibid.* 1 (1965), 1125-1126; *ibid.* 2 (1966), 131-148; *ibid.* 2 (1966), 295-296; *ibid.* 2 (1966), 856-860; *ibid.* 2 (1966), 995-1000; *ibid.* 4 (1968), 557-563; *ibid.* 4 (1968), 1538-1544. (Editors) 38 #2356b

New books. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1125; *ibid.* 1 (1965), 1548; *ibid.* 2 (1966), 584; *ibid.* 2 (1966), 1544; *ibid.* 3 (1967), 354-355; *ibid.* 3 (1967), 1614-1615; *ibid.* 4 (1968), 952. (Editors) 38 #2356c

New books. (Russian) *Differencial'nye Uravnenija* 5 (1969), 206. (Editors) 39 #3067

Bibliography of journal articles. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1139-1149. (Editors) 39 #5287

Sakurai, Akira

On the problem of weak Mach reflection. *J. Phys. Soc. Japan* 19 (1964), 1440-1450. (R. Peyret) 32 #4997

Blast wave theory. *Basic Developments Fluid Dynam. Vol. I, pp.* 309-375. *Academic Press, New York,* 1965. (H. L. Brode) 34 #3870

Sakurai, J. J.

* Invariance principles and elementary particles. Investigations in Physics, No. 10. *Princeton University Press, Princeton, N. J.,* 1964. x + 326 *pp.* (P. Roman) 29 #4492

(with Picasso, L. E.; Radicati, L. A.; Zanello, D. P.) ω-ρ mixing and charge-dependent effects in the SU_3 scheme. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 187-198. 32 #8826

(with Radicati, L. A.; Picasso, L. E.; Zanello, D. P.) Electromagnetic mass differences. *Phys. Rev. Lett.* 14 (1965), 160-163. (S. L. Glashow) 30 #2854

Sala, Ilmari

Ein numerisches Verfahren zur Bestimmung der kritischen Drehzählen von zweifach gelagerten Läufern. *Soc. Sci. Fenn. Comment. Phys.-Math.* 29 (1964), *no.* 11, 20 *pp.* (W. Sangren) 32 #6708

Salachna, E.

Cantor's set in the theory of inverse limits. (Polish. English summary) *Prace Mat.* 10 (1966), 51-58. (R. Duda) 32 #8302

Šalaev, B. V.

A certain class of trigonometric series. (Russian) *Mat. Zametki* 9 (1971), 533-542. (G. G. Lorentz) 43 #7857

Salaev, V. V.

(with Babaev, A. A.) An analogue of the theorem of Plemelj and Privalov in the case of non-smooth curves, and some applications of it. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 267-269. (H. Fast) 31 #2604

Some properties of a singular operator. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1966, *no.* 6, 12-17. (S. Hartman) 37 #3286

Salaeva, B. G.

Ruled surfaces in Lobačevskiĭ space. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1960, *no.* 4, 57-64. (K. K. Mokriščev (RŽMat 1962 #4 A406)) 36 #4460

On the theory of line congruences in Lobačevskiĭ space. I. General theory. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 1, 41-48. (A. Urban) 36 #5840

On the theory of line congruences in Lobačevskiĭ space. II. Special classes. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 2, 56-62. (A. Urban) 36 #5841

Šalaevskiĭ, O. V.

On the method of least squares with unknown weights. (Russian) *Proc. All-Union Conf. Theory Prob. and Math. Statist. (Erevan,* 1958) *(Russian), pp.* 106-111. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1960. (Judah Rosenblatt) 33 #3400

On the existence of similar tests for the Behrens-Fisher problem. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 795-797. (J. Hájek) 29 #699

(with Linnik, Ju. V.; Romanovskaja, I. L.) A remark on the theory of the Fisher-Welch-Wald test. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 727-730. (Authors' summary) 32 #8446

The problem of the distribution of observations in polynomial regression. *Trudy Mat. Inst. Steklov.* 79 (1965), 132-149 *(Russian); translated as Proc. Steklov Inst. Math. No.* 79 (1966), 147-166. (J. Wise) 34 #6939

(with Linnik, Ju. V.; Pliss, V. A.) On the theory of the Hotelling test. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 743-746. (Viktor Kurotschka) 33 #3403

(See also Wilks, Samuel S., 37 #2345)

(with Kagan, A. M.) A remark on the unbiased estimation of functions of a mixture parameter. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 6, 17-20. (S. Kotz) 36 #4685

(with Kagan, A. M.) A characterization of the normal law by a property of the non-central chi-square distribution. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 57-58. (S. Kotz) 36 #3394

(with Linnik, Ju. V.; Prohorov, Ju. V.) On the theory of the approximately minimax selection of signals against a Gaussian noise. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 401-417. (Authors' summary) 35 #6264

(with Kagan, A. M.) Characterization of the normal law by the property of partial sufficiency. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 567-569. (L. Schmetterer) 36 #2191

The minimax character of Hotelling's T^2 test. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 1048-1050. (A. F. Ifram) 38 #2879

Equalization of observations with unknown weights by the method of least squares. (Russian) *Trudy Mat. Inst. Steklov.* 104 (1968), 189-214. (J. Wolfowitz) 41 #2847

(with Kagan, A. M.) The admissibility of least square estimates is an exclusive property of the normal law. (Russian) *Mat. Zametki* 6 (1969), 81-89. (G. K. Eagleson) 40 #2185

Minimax character of Hotelling's T^2 test. I. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 13 (1969), 138-182. (A. M. Kagan) 42 #5380

Minimax character of the R^2 test of a relation. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 13 (1969), 183-248. (A. M. Kagan) 42 #5386

Salaff, Stephen

A nonzero determinant related to Schur's matrix. *Trans. Amer. Math. Soc.* 127 (1967), 349-355. (M. Marcus) 35 #2907

Regular boundary conditions for ordinary differential operators. *Trans. Amer. Math. Soc.* 134 (1968), 355-373. (C. E. Billigheimer) 38 #4746

Salah Ahmad. See Ahmad, Salah.

Salahiev, G. G.

A nonlinear boundary value problem for the Lavrent′ev-Bicadze equation. (Russian) *Collection of Candidates′ Works* (1966), *Math. (Russian), pp.* 34-50. *Izdat. Kazan. Univ., Kazan,* 1966. (R. N. Goss) 36 #6809

A nonlinear boundary value problem for a system of first order differential equations of mixed type. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 129-139. (A. Nahušev (RŽMat 1967 #8 B308)) 44 #4387

A boundary value problem for a system of differential equations of mixed type with nonlinear conditions of pasting together. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 140-145. (A. Nahušev (RŽMat 1967 #8 B309)) 44 #4388

A boundary value problem for the Lavrent′ev-Bicadze quasilinear equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 81-92. (R. Guenther) 35 #3280

Salahitdinov, M. S.

On the theory of the equation $\partial/\partial x(y\partial^2u/\partial x^2 + \partial^2u/\partial y^2) = 0$. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1962, *no.* 2, 5-11. (D. Mangeron) 30 #1321

On some boundary value problems for mixed-composite type equations. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 231-235. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. M. Sibner) 35 #598

On an equation of composite type. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 3, 35-40. (M. Pinl) 30 #1322

Certain correct problems for an equation of mixed-composite type. (Russian) *Theory of Functions Differential Equations (Russian), pp.* 187-206. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1965. (R. N. Goss) 33 #7714

On the theory of equations of composite type. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 3, 13-20. (M. Pinl) 33 #7713

On the question of existence of solutions of boundary value problems for an equation of mixed-composite type. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 4, 17-20. (D. A. Lee) 35 #599

(with Aržanyh, I. S.; Kukles, I. S.) Investigations in differential, integral and integro-differential equations in Uzbekistan. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 5, 3-9. 35 #6883

(with Isamuhamedov, S. S.) Boundary value problems for a certain equation of mixed type. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 5, 73-74. (S. A. Tersenov) 41 #5791

Certain boundary value problems for a mixed type equation. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 1, 27-33. (A. M. Nahušev) 44 #4389

(with Amanov, D.) Certain boundary value problems for an equation of mixed type with discontinuous coefficients. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 6, 23-29. (L. von Wolfersdorf) 43 #6601

(with Isamuhamedov, S. S.) Certain mixed problems for the equation $\operatorname{sgn} y|y|^{-m} u_{xx} + u_{yy} = 0$. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 5, 15-19. (S. A. Tersenov) 44 #1945

(with Džuraev, T. D.) Studies in differential and integral equations. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 37-40. (Editors) 43 #1797

Salam, Abdus

Developments in renormalization theory. *Analysis in function space, pp.* 121-128. *M.I.T. Press, Cambridge, Mass.,* 1964. (G. Heber) 29 #4426

Broken symmetries. *Group theoretical concepts and methods in elementary particle physics (Lectures Istanbul Summer School Theoret. Phys.,* 1962*), pp.* 359-364. *Gordon and Breach, New York,* 1964. (P. Roman) 30 #1787

Developments in renormalization theory. *Proc. Conf. on Theory and Appl. of Analysis in Function Space (Dedham, Mass.,* 1963*), pp.* 121-128. *The M.I.T. Press, Cambridge, Mass.,* 1964. (Editors) 32 #3651

(with Matthews, P. T.) *U*-spin and the weak interaction. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1333-1337. (R. Delbourgo) 32 #6999

(with Ward, J. C.) Electromagnetic and weak interactions. *Phys. Lett.* 13 (1964), 168-171. (R. Gatto) 33 #1050

On the algebra of SU_6. *Phys. Lett.* 13 (1964), 354-355. (R. Mirman) 32 #2097

(with Delbourgo, Robert) Renormalizable electrodynamics of scalar and vactor mesons. II. *Phys. Rev.* (2) 135 (1964), B1398-B1427. (J. M. Jauch) 31 #1038

(with Ward, J. C.) Gauge theory of elementary interactions. *Phys. Rev.* (2) 136 (1964), B763-B768. (E. C. G. Sudarshan) 31 #4466

The covariant theory of strong interaction symmetries. (With discussion) *Coral Gables Conferences on Symmetry Principles at High Energy,* 1965, *pp.* 6-32. *Freeman, San Francisco,* 1965. (P. Roman) 31 #5546

(with Delbourgo, R.; Rashid, M. A.; Strathdee, J.) The $\tilde{U}(12)$ symmetry. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste,* 1965*), pp.* 455-532. *International Atomic Energy Agency, Vienna,* 1965. (W. Rühl) 34 #7155

(with Delbourgo, R.; Strathdee, J.) $\tilde{U}_{12}$ and broken SU_6 symmetry. *Nuovo Cimento* (10) 36 (1965), 689-692. (K. Kawarabayashi) 33 #2267

(with Strathdee, J.; Charap, J. M.; Matthews, P. T.) P and C properties of the $\tilde{U}(12)$ multiplets. *Phys. Lett.* 15 (1965), 184-185. (P. Singer) 32 #3626

(with Delbourgo, R.; Strathdee, J.) The covariant theory of strong interaction symmetries. *Proc. Roy. Soc. Ser. A* 284 (1965), 146-158. (F. A. E. Pirani) 30 #2855

Theory of groups and the symmetry physicist. *J. London Math. Soc.* 41 (1966), 49-62. (M. Hamermesh) 32 #3652

(with Delbourgo, R.; Strathdee, J.) Relativistic extension of non-compact symmetry groups. *Proc. Roy. Soc. Ser. A* 289 (1966), 177-191. (A. O. Barut) 32 #8836

(with Strathdee, J.) On the coupling of non-compact group representations. *Proc. Roy. Soc. Ser. A* 292 (1966), 314-321. (R. Delbourgo) 33 #3692

(with Mack, G.) Finite-component field representations of the conformal group. *Ann. Physics* 53 (1969), 174-202. (A. Kihlberg) 39 #6578

(with Strathdee, J.) Nonlinear realizations. I. The role of Goldstone bosons. *Phys. Rev.* (2) 184 (1969), 1750-1759. (T. Yao) 42 #1425

(with Strathdee, J.) Nonlinear realizations. II. Conformal symmetry. *Phys. Rev.* (2) 184 (1969), 1760-1768. (T. Yao) 42 #1426

(with Delbourgo, R.; Strathdee, J.) Infinities of nonlinear and Lagrangian theories. *Phys. Rev.* (2) 187 (1969), 1999-2007. (R. L. Ingraham) 41 #1302

(with Isham, C. J.; Strathdee, J.) Nonlinear realizations of space-time symmetries. Scalar and tensor gravity. *Ann. Physics* 62 (1971), 98-119. (M. Carmeli) 43 #2960

Salam, W. A. Al. See Al-Salam, Waleed A.

Salamatin, M. N.

A certain modification of Minkusiński's operators. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 82-84. (L. Berg) 41 #4156

Salamon, Reinhild

Die Klassen im Geschlecht von $x_1^2 + x_2^2 + x_3^2$ und $x_1^2 + x_2^2 + x_3^2 + x_4^2$ über $\mathbf{Z}[\sqrt{3}]$. *Arch. Math. (Basel)* 20 (1969), 523-530. (D. G. James) 40 #5542

Salas, J. Martinez. See Martínez Salas, José.

Šalašov, V. K.

(with Brudnyĭ, Ju. A.) Lipschitzian function spaces. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 18-20. (M. Cîrnu) 43 #3789

Šalašova, L. Ja.

An approximation theorem of A. F. Timan for functions which have a continuous derivative of fractional order. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 1248-1249. (J.-P. Kahane) 41 #4070

Šalát, Tibor

On the sets of distances of linear discontinua. II. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 87 (1962), 489-491. (Author's summary) 31 #5189

On irrationality criteria for real numbers. (Slovak. Russian and German summaries) *Acta Fac. Natur. Univ. Comenian.* 7, 649-662 (1963). (H. Halberstam) 30 #3867

(with Kostyrko, Pavel) On functions whose graphs are closed sets. (Russian. Slovak and German summaries) *Časopis Pěst. Mat.* 89 (1964), 426-432. (J. H. Halton) 32 #3041

Eine metrische Eigenschaft der Cantorschen Entwicklungen der reellen Zahlen und Irrationalitätskriterien. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 254-266. (W. J. LeVeque) 29 #5789

(with Legéň, Anton) Some applications of the category method in the theory of sequence spaces. (Russian. German summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 14 (1964), 217-233. (A. Pietsch) 30 #382

On subseries. *Math. Z.* 85 (1964), 209-225. (B. Volkmann) 31 #3755

Zur Frage über die Positivität des Riemannschen Integrals von nichtnegativer Funktion. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 561-564. (S. Marcus) 31 #1358

(with Neubrunn, T.) Über eine Klasse metrischer Räume. (Slovak and Russian summaries) *Acta Fac. Natur. Univ. Comenian.* 10, *fasc.* 3, 23-30 (1965). (Z. Semadeni) 33 #1838

(with Kostyrko, P.; Neubrunn, T.) On functions whose graphs are closed sets. II. (Russian. Slovak and English summaries) *Acta Fac. Natur. Univ. Comenian.* 10, *fasc.* 3, 51-61 (1965). (J. H. Halton) 35 #4890

Über die Hausdorffsche Dimension der Menge der Zahlen mit beschränkten Folgen von Ziffern in Cantorschen Entwicklungen. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 540-553. (C. G. Lekkerkerker) 32 #5626

An elementary proof of divergence of certain infinite series of the type $\sum 1/p$. (Russian) *Friendship of Brotherly Universities (Bratislava, Brno, Debrecen, Cracow, Kiev) (Russian), pp.* 191-198. *Izdat. Kiev. Univ., Kiev,* 1966. (O. E. Stanaitis) 35 #144

A remark on normal numbers. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 53-56. (L. C. Eggan) 34 #1270

(with Smítal, J.) Bemerkung zur Approximation der stetigen Funktionen durch Polynome. (Czech and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 16 (1967), 43-47. (P. L. Butzer) 38 #4864

(with Neubrunn, Tibor; Smítal, Jaroslav) On certain properties characterizing locally separable metric spaces. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 157-161. (R. F. Dickman, Jr.) 36 #5891

(with Neubrunn, Tibor) On certain spaces of transformations of infinite series. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 267-282. (M. S. Ramanujan) 36 #5566

Zur Induktion im Kontinuum. *Elem. Math.* 22 (1967), 62-63. (R. S. Booth) 35 #4348

Remarks on the ergodic theory of the continued fractions. (Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 121-130. (A. Magnus) 37 #1834

On ratio sets of sets of natural numbers. *Acta Arith.* 15 (1968/69), 273-278. (B. M. Stewart) 39 #4083 (E)

(with Znám, Štefan) On sums of the prime powers. *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 21 (1968), 21-24 (1969). (I. Danicic) 42 #1790

Über die Gantorschen Reihen. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 25-56. (P. Erdős) 36 #6353

Zu einigen Fragen der Gleichverteilung (mod 1). *Czechoslovak Math. J.* 18(93) (1968), 476-488. (O. P. Stackelberg) 37 #5160

Zur metrischen Theorie der Lürothschen Entwicklungen der reellen Zahlen. (Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 489-522. (E. Grosswald) 37 #5179

On subseries of divergent series. (Loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 312-338. (B. K. Lahiri) 40 #6105

(with Neubrunn, Tibor; Smítal, Jaroslav) On the structure of the space $M(0,1)$. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 377-386. (R. H. Cox) 38 #2592

Corrigendum to the paper "On ratio sets of sets of natural numbers". *Acta Arith.* 16 (1969/70), 103. (Editors) 40 #1361

(with Kostyrko, P.; Smítal, J.) Remarks on the theory of real functions. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 20 (1969), 81-89 (1970). (C. Vinti) 42 #7852

(with Hatalová, H.) Remarks on two results in the elementary theory of numbers. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 20 (1969), 113-117 (1970). (L. Carlitz) 42 #3014

(with Neubrunn, Tibor) Distance sets, ratio sets and certain transformations of sets of real numbers. *Časopis Pěst. Mat.* 94 (1969), 381-393. (W. J. Wilbur) 41 #1960

Bemerkung zu einem Satz von P. Lévy in der metrischen Theorie der Kettenbrüche. *Math. Nachr.* 41 (1969), 91-94. (E. Frank) 40 #98

On locally recurrent functions. *Amer. Math. Monthly* 77 (1970), 384-385. (S. Marcus) 41 #1948

Remark on a theorem of K. M. Slĭpenčuk in the theory of summability of series. *Časopis Pěst. Mat.* 95 (1970), 54-55. (B. N. Sahney) 41 #7331

(with Lipiński, Jan Stanisław) On the points of quasicontinuity and cliquishness of functions. *Czechoslovak Math. J.* 21(96) (1971), 484-489. (R. F. Dickman, Jr.) 44 #4721

Bemerkung zu einer Anwendung des Bertrandschen Postulats in der Zahlentheorie. *Elem. Math.* 26 (1971), 4)-42. (L. Bernstein) 43 #4774

Salaün, Pierre

Sur une équation intégrale rencontrée en élasticité. *C. R. Acad. Sci. Paris* 260 (1965), 6008-6010. (H. Bueckner) 32 #1513

Šalbaev, E. B.

Some theorems on embedding. (Russian) *Studies in Differential Equations and their Applications (Russian), pp.* 126-133. *Izdat. "Nauka", Alma-Ata,* 1965. (R. K. Juberg) 35 #727

(with Aržanyh, I. S.) A solution of the relativistic quantum equation for an electron in a Coulomb field. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 5, 25-29. (R. C. Gilbert) 41 #4948

A solution of the relativistic quantized equation for the harmonic oscillator. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 70-73. (Z. Jaković) 41 #4959

Salbany, S.

Completeness of $C_s(X)$. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 182-186. (S. T. M. Ackermans) 41 #5953

(with Brümmer, G. C. L.) Pathology of upper Stone-Čech compactifications. *Amer. Math. Monthly* 78 (1971), 187-188. (H. Herrlich) 43 #1126

Sâlceanu, Constantin

(with Zăgănescu, M.) On the definition of the absorption factor of a non-periodic sonic impulse. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Ped. Timişoara Mat.-Fiz.* 1961, 197-200 (1962). (Authors' summary) 30 #5646

Saldanha, J. A.

(with Gruber, B.; Han, B. H.) Multiplicities in the classical groups. II. *J. Mathematical Phys.* 12 (1971), 821-827. (A. Pozzi) 44 #2886

Salechow, G. See Salehov, G.

Saleemi, B. A.

(with Willmore, T. J.) The total absolute curvature of immersed manifolds. *J. London Math. Soc.* 41 (1966), 153-160. (N. H. Kuiper) 32 #3019

Morse theory and its applications to the theory of total absolute curvature. *Panjab Univ. J. Math. (Lahore)* 1 (1967), 13-27. (From the author's introduction) 36 7159

Total absolute curvature of $M_1\ M_2$. *Panjab Univ. J. Math. (Lahore)* 2 (1969), 33-38. (E. A. Feldman) 41 #2697

Saleh, A. K. Md. Ehsanes

(with Ali, Mir M.) Asymptotic optimum quantiles for the estimation of the parameters of the negative exponential distribution. *Ann. Math. Statist.* 37 (1966), 143-151. (Benjamin Epstein) 32 #3183

Estimation of the parameters of the exponential distribution based on optimum order statistics in censored samples. *Ann. Math. Statist.* 37 (1966), 1717-1735. (C. G. Khatri) 34 #3699

Determination of the exact optimum order statistics for estimating the parameters of the exponential distribution from censored samples. *Techometrics* 9 (1967), 279-292. (J. H. Stapleton) 37 #1010

Saleh, Fathi Assan

(with de Calan, Guy; Lefevre, Claude) Détermination de la réponse indicielle d'une classe de systèmes non linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A183-A185. (Authors' summary) 42 #8971

Salehi, Habib

A factorization algorithm for $q \times q$ matrix-valued functions on the real line R. *Trans. Amer. Math. Soc.* 124 (1966), 468-479. (R. M. Dudley) 33 #8039

A transformation theorem on spectral measures. *Proc. Amer. Math. Soc.* 18 (1967). 610-613. (M. Schreiber) 35 #5967

On the alternating projections theorem and bivariate stationary stochastic processes. *Trans. Amer. Math. Soc.* 128 (1967), 121-134. (P. Whittle) 35 #4986

On the growth of a q-variate stationary stochastic process. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 140-147. (E. A. Robinson) 36 #957

The Hellinger square-integrability of matrix-valued measures with respect to a non-negative hermitian measure. *Ark. Mat.* 7, 299-303 (1968). (R. K. Goodrich) 38 #2272

Application of the Hellinger integrals to q-variate stationary stochastic processes. *Ark. Mat.* 7, 305-311 (1968). (S. Csibi) 38 #5284

Applications of Hellinger's integrals in detection theory. *J. Math. Anal. Appl.* 21 (1968), 264-276. (W. L. Root) 37 #3644

On the Hellinger integrals and interpolation of q-variate stationary stochastic processes. *Ark. Mat.* 8, 1-6 (1969). (T. Hida) 41 #4641

Interpolation of q-variate homogeneous random fields. *J. Math. Anal. Appl.* 25 (1969), 653-662. (Vo-Khac Khoan) 38 #3912

On interpolation of q-variate stationary stochastic processes. *Pacific J. Math.* 28 (1969), 183-191. (M. M. Siddiqui) 39 #1013

(with Mandrekar, V.) Subordination of infinite-dimensional stationary stochastic processes. (French summary) *Ann. Inst. H. Poincaré Sect. B (N.S.)* 6 (1970), 115-130. (J. B. Robertson) 42 #3850

(with Mandrekar, V.) The square-integrability of operator-valued functions with respect to a non-negative operator-valued measure and the Kolmogorov isomorphism theorem. *Indiana Univ. Math. J.* 20 (1970/71), 545-563. (A. de Korvin) 42 #1971

(with Mandrekar, V.) Operator-valued wide-sense Markov processes and solutions of infinite-dimensional linear differential systems driven by white noise. *Math. Systems Theory* 4 (1970), 340-356. (Y. M. Chen) 43 #4113

(with Taylor, G. D.) Positive matrix $H^{1/2}$ and Hermitian matrix H^1 functions are constant. *Proc. Amer. Math. Soc.* 26 (1970), 469-470. (J. H. Neuwirth) 42 #2008

On determination of the optimal factor of a nonnegative matrix-valued function. *Proc. Amer. Math. Soc.* 29 (1971), 383-389. (T. Kawata) 43 #3788

(with Mandrekar, V.) On a factorization theorem of D. Lowdenslager. *Proc. Amer. Math. Soc.* 31 (1972), 185-188. (G. I. Gaudry) 44 #4556

Salehov, D. V.

On the representability of functions by singular integrals. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 299-304. *Fizmatgiz Moscow,* 1961. (R. T. Seeley) 32 #4446

Further remarks on Lebesgue-Orlicz points. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 4, 72-81. (J. Albrycht) 33 #6371

(with Semenov, E. M.) On Lebesgue-Banach points. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 151-156. (M. Tomić) 33 #250

Convergence of singular integrals at the Lebesgue-Orlicz points of functions of symmetric spaces. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 1018-1021. (A. T. Bharucha-Reid) 36 #3117

Singular integrals in symmetric spaces. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1968, *no*. 5, 56-65. (E. Rotaro) 43 #6715

Certain properties of functions which belong to an Orlicz space. (Russian) *Mat. Zametki* 3 (1968), 145-156. (J. Peetre) 37 #4597

A certain property of N-functions. (Russian) *Mat. Zametki* 4 (1968), 281-290. (B. Walsh) 38 #1517

Correlations between sets of Lebesgue-Banach points and Lebesgue-Orlicz points of functions from an Orlicz space. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 66-77. (T. Ando) 36 #5680

The properties of Lebesgue-Orlicz points of various orders. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 340-351. (A. J. Lazar) 38 #1518

The representation by a singular integral of functions from symmetric spaces at Lebesgue-Orlicz points. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 2, 49-55. (A. J. Lazar) 43 #5303

(with Semenov, E. M.) The convergence of a certain family of functionals in an Orlicz space. (Russian) *Studia Math.* 32 (1969), 285-293. (A. J. Lazar) 39 #7415

A certain characteristic property of Lorentz space in a class of symmetric spaces. (Russian) *Mat. Zametki* 7 (1970), 627-633. (T. Ando) 41 #8984

(with Bloščicin, A. A.) Certain properties of the difference-dependent kernel of an integral operator from the Orlicz space L_M^* to the Orlicz space $L_{M_1}^*$. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 321-329. (M. Cotlar) 43 #5360

Salehov, G. S.

(with Fatyhov, A. G.) An application of general methods of the solution of elliptic equations to the solution of a certain boundary value problem of subterranean hydromechanics. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 981-983. (M. A. Atahodžaev) 44 #611

A parametrized family of equations that admit a solution from a given class of parameter functions. *Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* 15 (1970), 711-717. (M. Maňas) 42 #2807

Salehov, L. G.

(with Čibrikova, L. I.) An application of the symmetry method in solving a certain linear conjugacy problem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 9 (76), 94-105. (T. G. Gegelia) 39 #1665

Salem, Raphaël

(with Pisot, Ch.) Distribution modulo 1 of the powers of real numbers larger than 1. *Compositio Math.* 16, 164-168 (1964). (E. Fogels) 30 #4748

* Oeuvres mathématiques. *Herman, Paris,* 1967. 645 *pp.* (1 *plate*) (A. Zygmund) 36 #22

* Oeuvres mathématiques. Références et errata. *Hermann, Paris,* 1967. 10 *pp.* (Editors) 39 #3959

Salençon, Jean

Théorie des charges limites. Étude d'une classe de solutions cinématiques pour le problème du poinçonnement d'un demi-plan non homogène. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A171-A173. (I. Tadjbakhsh) 41 #6456

Sales, Francisco See Sales Vallés, Francisco de A.

Sales Vallés, Francisco de Asís

On complementation and valuation of lattices. (Spanish) *Proc. Eighth Annual Renion of Spanish Mathematicians (Santiago, 1967), (Spanish), pp.* 129-142. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1969. (A. B. Ramsay) 41 #3338

Galois mappings in ordered sets and in lattices. (Spanish) *Collect. Math.* 21 (1970), 19-39. (R. J. Bumcrot) 42 #5869

Saletan, Eugene J.

(See Gel′fand, I. M., Graev, M. I., Vilenkin, N. Ja., 34 #7726)

(with Currie, Douglas G.) q-equivalent particle Hamiltonians. I. The classical one-dimensional case. *J. Mathematical Phys.* 7 (1966), 967-974. (P. Havas) 33 #8125

Salganik, R. L.

Estimating the error committed in passing from the exact equations of the theory of elasticity to the equations of the plane state of stress. *Prikl. Mat. Meh.* 28 (1964), 791-794 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 962-965. 31 #4241

(with Entov, V. M.) Solution of two-dimensional problems of filtration with a limiting gradient by the method of small parameter. *Prikl. Mat. Meh.* 32 (1968), 844-857 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 872-884 (1969). (J. P. Guiraud) 39 #7866

Salganskaja, N. M.

(with Barsuk, L. O.; Belosludcev, N. M.; Neĭmark, Ju. I.) Stability of the fixed point of a transformation in the critical case and certain singular bifurcations. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 11 (1968), 1632-1641. (J. M. Skowroński) 43 #6507

Salia, R.

A property of the energy-momentum tensor of a gravitational field. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 32 (1963), 555-558. (A. H. Klotz) 29 #1033

Generalized Lorentz transformations. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 38 (1965), 45-52. (R. H. Boyer) 32 #8967

(with Cipurija, I. E.; Čubinišvili, T. N.) The optimal policies of inventory control with one-time purchase in the case of random withholding of supplies. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 55 (1969), 545-548. (M. Maňas) 42 #2789

(with Cipurija, I. E.; Čubinišvili, T. N.) A dynamic inventory model for the case when demand and delivery time are random variables. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 54 (1969), 553-556. (M. Maňas) 40 #6947

Salié, Hans

Arithmetische Eigenschaften der Koeffizienten einer speziellen Hurwitzschen Potenzreihe. *Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe* 12 (1963), 617-618. (L. Carlitz) 29 #58

Über die kleinste Primzahl, die eine gegebene Primzahl als kleinsten positiven quadratischen Nichtrest hat. *Math. Nachr.* 29 (1965), 113-114. (L. Carlitz) 31 #2199

Reichweite von Mengen aus drei natürlichen Zahlen. *Math. Ann.* 165 (1966), 196-203. (J. B. Kelly) 33 #7295

Salié, Nikolaus

Bestimmung von Komponenten des metrischen Tensors $g_{\mu\nu}$ durch Messung der Ausbreitungsgeschwindigkeit von Stosswellen kleiner Amplitude in elastischen Medien. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 13 (1964), 223-226. (N. Coburn) 32 #7191

Differentialgeometrische Untersuchungen des raum-zeitlichen Aufspaltungsformalismus in der allgemeinen Relativitätstheorie. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 15 (1966), 45-62. (Author's summary) 34 #5481

Salihov, G. N.

On certain cubature formulas on hyperspheres. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 2, 37-40. (A. H. Stroud) 35 #2486

(with Domorjad, A. P.) Studies in the mathematics of computation. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 24-28. (Editors) 43 #1796

Saliĭ, V. N.

On proper matrix representations of generalized groups. (Russian) *Works of Young Scientists (Russian), pp.* 88-92. *Izdat. Saratov. Univ., Saratov,* 1964. (A. Hulanicki) 33 #7429

* (with Gohman, A. V.; Spivak, M. A.; Žitomirskiĭ, G. I.; Rozen, V. V.; Ryžkov, A. G.; Šimel´fenig, O. V.) Сборник задач по математической логике и алгебре множеств. (Russian) [Collection of problems in mathematical logic and algebra of sets] *Izdat. Saratov. Univ., Saratov,* 1965. 87 *pp.* (E. Mendelson) 34 #1196

On rings with commuting idempotents. (Russian) *Theory of Semigroups and Appl.* I *(Russian), pp.* 279-285. *Izdat. Saratov. Univ., Saratov,* 1965. (B. Vinograde) 33 #5671

Binary $\mathcal{L}$-relations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 133-145. (G. Grätzer) 31 #110

Projective semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 144-149. (B. M. Schein (Šaĭn)) 33 #7444

A system of axioms for transformative semigroups. (Russian) *Volz. Mat. Sb. Vyp.* 5 (1966), 342-345. (B. M. Schein (Šaĭn)) 36 #2729

Semigroups of $\mathcal{L}$-sets. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 659-668. (B. M. Schein (Šaĭn)) 35 #2984

Transformative semigroups $(\mathfrak{S},\circ,\xi,\chi_1,\chi_2)$. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 30-33. (H.-J. Hoehnke) 37 #1497

Nonassociative systems connected with $\mathcal{L}$-transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 3 (70), 86-95. (G. Grätzer) 37 #3972

A certain class of idempotent commutative relativized semigroups: F-quasilattices. (Russian) *Studies in Number Theory, No.* 3 *(Russian), pp.* 69-74. *Izdat. Saratov. Univ., Saratov,* 1969. (B. M. Schein (Šaĭn)) 42 #4457

On the theory of inversive semirings. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 3 (82), 52-60. (H.-J. Hoehnke) 40 #7312

Equationally normal varieties of semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 5 (84), 61-68. (E. Ja. Gabovič) 41 #8555

Relativized semigroups of transformations containing the first projective relation x_1. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 8 (87), 89-103. (B. M. Schein (Šaĭn)) 40 #7373

Salija, R. N. See Salia, R.

Salimov, A. H.

Certain methods of solving the problem of nonstationary motion of a gas in a duct. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 24 (1968), *no.* 12, 3-8. (S. Drobot) 41 #4899

Salimov, N. B.

An inverse problem of filtration under pressure in case of oblique water resistance. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 146-158. 44 #4989

Certain problems of filtration of a fluid with unknown boundaries. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 2 (81), 88-98. (I. O. Bohachevsky) 40 #1070

Salimov, R. B.

On solvability conditions for exterior inverse boundary value problems. (Russian) *Trudy Sem. Obratn. Kraev. Zadačam* 1 (1964), 104-109. (H. Švecová) 35 #5635

The Schwarz problem and the inverse boundary value problem for similar domains. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 159-172. (A. Volohin (RŽMat 1967 #8 B150)) 44 #5484

An inverse boundary value problem for similar doubly connected domains. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 4 (1967), 121-125. (F. Gahov (RŽMat 1968 #1 B387)) 44 #5485

Determination of the variations of velocity and lift under a change of profile that is located near a rigid boundary. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 1 (92), 73-79. (L. Dragoş) 41 #7907

A certain inverse mixed problem of filtration theory for close domains. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 10 (101), 73-80. (St. I. Gheorghiţă) 44 #4990

On the computation of singular integrals with Hilbert kernel. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 12 (103), 93-96. (W. Żakowski) 44 #739

Salinas, Baltasar Rodríquez. See R.-Salinas, Baltasar.

Salinas, Norberto

Application of Schauder's theorem to a problem of boundary conditions for nonlinear differential equations of order n. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 4 (1966), 101-107. (K. Schmitt) 38 #1319

Salinas Palero, Baltasar R. See R.-Salinas, Baltasar.

Salinger, D. L.

The inductive limit of uncountably many compact Abelian groups. *Proc. Cambridge Philos. Soc.* 64 (1968), 985-987. (E. J. Howard) 38 #2239

(with Varopoulos, N. Th.) Convolutions of measures and sets of analyticity. *Math. Scand.* 25 (1969), 5-18. (Y. Domar) 41 #8930

A partition of non-synthesis for a quotient algebra of $\overline{A(\mathbb{Z})}$. *Proc. Cambridge Philos. Soc.* 68 (1970), 675-683. (A. B. Willcox) 42 #2254

Sur les ensembles indépendants dénombrables. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A786-A788. (G. Brown) 43 #3741

Salkauskas, K.

Existence of quadrature formulae with almost equal weights. *Math. Comp.* 25 (1971), 105-109. (J. Segethova) 44 #7750

Salkind, Charles T.

Factorization of $a^{2n} + a^n + 1$. *Math. Mag.* 38 (1965), 163. (Editors) 31 #1224

Sal´ko, D. S.

On the theory of implicit functions in locally convex spaces. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 2 (146), 235-236. (J. Kolomý) 39 #4672

Salkowski, E.

* Darstellende Geometrie. Neunte bearbeitete Auflage. Bearbeitet von Walter Schulze. Mathematik und ihre Anwendungen in Physik und Technik, Reihe A, Band 3. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1963. x + 210 *pp.* (Editors) 29 #5140

Sallay, Melanie

(with Freud, G.) Sur la vitesse de convergence du développement selon des fonctions propres de Sturm-Liouville. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 6 (1961), 271-279. (D. H. Tucker) 29 #3821

Über einen linearen mehrdimensionalen Approximationsprozess. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 347-354 (1964). (E. Popoviciu-Moldovan) 30 #4106

Über ein Interpolationsverfahren. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 607-615 (1965). (Bruno Brosowski) 32 #4428

Über eine Erweiterung des Zygmundschen Approximationsprozesses in zwei Dimensionen. *Studia Sci. Math. Hungar.* 2 (1967), 201-213. (G. G. Lorentz) 35 #2050

Über "lückenhafte" Orthogonalpolynomsysteme. *Studia Sci. Math. Hungar.* 4 (1969), 371-377. (A. E. Danese) 40 #3160

Salle, J. P. La. See LaSalle, J. P.

Sallee, G. T.

A valuation property of Steiner points. *Mathematika* 13 (1966), 76-82. (L. A. Santaló) 33 #7937

Incidence graphs of convex polytopes. *J. Combinatorial Theory* 2 (1967), 466-506. (D. W. Walkup) 35 #7198

Polytopes, valuations, and the Euler relation. *Canad. J. Math.* 20 (1968), 1412-1424. (G. C. Shephard) 38 #605

(with Chakerian, G. D.) An intersection theorem for sets of constant width. *Duke Math. J.* 36 (1969), 165-170. (H. Groemer) 39 #3392

The maximal set of constant width in a lattice. *Pacific J. Math.* 28 (1969), 669-674. (J. B. Wilker) 39 #2069

Maximal areas of Reuleaux polygons. *Canad. Math. Bull.* 13 (1970), 175-179. (W. J. Firey) 42 #2368

(with Perles, M. A.) Cell complexes, valuations, and the Euler relation. *Canad. J. Math.* 22 (1970), 235-241. (D. W. Walkup) 41 #7530

Sally, Paul J., Jr.

(with Taibleson, M. H.) Special functions on locally compact fields. *Acta Math.* 116 (1966), 279-309. (L. Carlitz) 34 #6168

Uniformly bounded representations of the universal covering group of SL(2,R). *Bull. Amer. Math. Soc.* 72 (1966), 269-273. (R. Hermann) 32 #5790

* Analytic continuation of the irreducible unitary representations of the universal covering group of SL(2,R). Memoirs of the American Mathematical Society, No. 69. *American Mathematical Society, Providence, R. I.,* 1967. i + 94 *pp.* (A. Hulanicki) 38 #3380

Unitary and uniformly bounded representations of the two by two unimodular group over local fields. *Amer. J. Math.* 90 (1968), 406-443. (J. Brezin) 37 #5329

(with Shalika, J. A.) Characters of the discrete series of representations of SL(2) over a local field. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1231-1237. (A. Dress) 38 #5994

Salmanov, Ju. D.

Sturm-Liouville problem for a certain general linear differential equation. (Russian) *Differencial′nye Uravnenija* 1 (1965), 1321-1337. (M. Ráb) 32 #7840

An inequality for functions of weight-classes and boundary value problems with a strong degeneracy on the boundary consisting of a curve and a point. (Russian) *Differencial′nye Uravnenija* 2 (1966), 1214-1227. (R. Carroll) 34 #1677

Salmanova, D. G.

Solution of a mixed problem for a second order hyperbolic equation in an unbounded region by a generalized Fourier method. (Russian) *Special Problems of Functional Analysis and their Applications to the Theory of Differential Equations and the Theory of Functions (Russian), pp.* 156-163. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. (A. Pelczar) 39 #5945

Solution by the generalized Fourier method of a mixed problem for a second order parabolic equation in an unbounded domain. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1968, *no.* 3, 118-123. (P. C. Fife) 41 #2226

(with Maksudov, F. G.) Solution of a mixed problem for a parabolic equation in an unbounded domain by the generalized Fourier method. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1968, *no.* 6, 16-23. (I. Łojczyk-Królikiewicz) 40 #6073

Salmeri, Antonio

Introduzione alla teroria dei coefficienti fattoriali. (English summary) *Giorn. Mat. Battaglini* (5) 10(90) (1962), 44-54. (I. M. H. Etherington) 29 #3419; erratum, 30, p. 1205

Salmon, David M.

Minimax controller design. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 492-500. *Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #2399

A pursuit-evasion game with multiple pursuers. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 595-609. *Univ. of Illinois, Urbana, Ill.,* 1969. (Author's summary) 41 #8047

Salmon, George

* A treatise on the analytic geometry of three dimensions. Vol. II. Fifth edition. Edited by Reginald A. P. Rogers. *Chelsea Publishing Co., New York,* 1965. xvi + 334 *pp.* (Editors) 34 #22

Salmon, Paolo

Serie convergenti su un corpo non archimedeo con applicazione ai fasci analitici. *Ann. Mat. Pura Appl.* (4) 65 (1964), 113-125. (P. Samuel) 29 #5847

Sur les séries formelles restreintes. *Bull. Soc. Math. France* 92 (1964), 385-410. (M. Nagata) 31 #2268

(with Micali, A.; Samuel, P.) Intégrité et factorialité des algèbres symétriques. *Proc. Fourth Brazilian Math. Colloq.* (1963) *(Portuguese), pp.* 61-76. *Conselho Nacional de Pesquisas, São Paulo,* 1965. (R. E. MacRae) 34 #7556

Proprietà dei completamenti $\mathfrak{M}$-edici e problemi geometrici di intersezioni complete. *Proc. Internat. Colloq. Algebraic Geometry (Madrid,* 1965*) (Spanish), pp.* 155-157. *Inst. Jorge Juan del C. S. I. C.-Internat. Math. Union, Madrid,* 1966. (A. Evyatar) 34 #187

Su un problema posto da P. Samuel. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 801-803. (P. Samuel) 34 #7559

Sulla fattorialità delle algebre graduate e degli anelli locali. *Rend. Sem. Mat. Univ. Padova* 41 (1968), 119-138. (P. Samuel) 39 #5543

Singolarità e gruppo di Picard. *Symposia Mathematica, Vol. II (INDAM, Rome,* 1968*), pp.* 341-345. *Academic Press, London,* 1969. (D. Kirby) 40 #4263

* (with Greco, Silvio) Topics in $\mathfrak{m}$-adic topologies. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 58. *Springer-Verlag, New York-Berlin,* 1971. vii + 74 *pp.* (W. Heinzer) 44 #190

Salomaa, Arto

Some analogues of Sheffer functions in infinite-valued logics. *Acta Philos. Fenn. Fasc.* 16 (1963), 227-235. (A. Rose) 34 #1175

On basic groups for the set of functions over a finite domain. *Ann. Acad. Sci. Fenn. Ser. A I No.* 338 (1963), 15 *pp.* (J. R. Büchi) 30 #23

On essential variables of functions, especially in the algebra of logic. *Ann. Acad. Sci. Fenn. Ser. A I No.* 339 (1963), 11 *pp.* (J. R. Büchi) 30 #24

On the reducibility of events represented in automata. *Ann. Acad. Sci. Fenn. Ser. A I No.* 353 (1964), 16 *pp.* (J. W. Thatcher) 29 #5725

Theorems on the representation of events in Moore-automata. *Ann. Univ. Turku. Ser. A I No.* 69 (1964), 14 *pp.* (G. Asser) 29 #6994

On infinitely generated sets of operations in finite algebras. *Ann. Univ. Turku. Ser. A I No.* 74 (1964), 13 *pp.* (C.-C. Chang) 30 #25

Axiom systems for regular expressions of finite automata. *Ann. Univ. Turku. Ser. A I No.* 75 (1964), 29 *pp.* (J. W. Thatcher) 29 #5726

On some algebraic notions in the theory of truth-functions. *Acta Philos. Fenn. Fasc.* 18 (1965), 193-202. (V. Devidé) 32 #7395

On the heights of closed sets of operations in finite algebras. *Ann. Acad. Sci. Fenn. Ser. A I No.* 363 (1965), 12 *pp.* (G. Asser) 31 #3368

On probabilistic automata with one input letter. *Ann. Univ. Turku. Ser. A I No.* 85 (1965), 16 *pp.* (H. D. Block) 32 #9170

Theory of automata. (Finnish. English summary) *Arkhimedes* 1965, *no.* 2, 7-20. (Author's summary) 34 #7297

Two complete axiom systems for the algebra of regular events. *J. Assoc. Comput. Mach.* 13 (1966), 158-169. (J. R. Büchi) 32 #7411

Axiomatization of an algebra of events realizable by logical networks. (Russian) *Problemy Kibernet. No.* 17 (1966), 237-246. (R. M. Baer) 35 #6559

On *m*-adic probabilistic automata. *Information and Control* 10 (1967), 215-219. (H. D. Block) 35 #6494

On finite time-variant automata with monitors of different types. *Ann. Univ. Turku. Ser. A I No.* 118 (1968), *no.* 3, 13 *pp.* (R. M. Baer) 40 #1206

On events represented by probabilistic automata of different types. *Canad. J. Math.* 20 (1968), 242-251. (H. D. Block) 36 #7444

(with Tixier, Vincent) Two complete axiom systems for the extended language of regular expressions. *IEEE Trans. Computers* C-17 (1968), 700-701. (Authors' summary) 38 #4243

On finite auotmata with a time-variant structure. *Information and Control* 13 (1968), 85-98. (R. M. Baer) 40 #1205

On regular expressions and regular canonical systems. *Math. Systems Theory* 2 (1968), 341-355. (G. Asser) 38 #5630

* Theory of automata. International Series of Monographs in Pure and Applied Mathematics, Vol. 100. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1969. xii + 263 pp. *(loose errata)* (A. A. Schmitt) 41 #6631

On grammars with restricted use of productions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 454 (1969), 32 *pp.* (N. C. A. da Costa) 41 #3250

On the index of a context-free grammar and language. *Information and Control* 14 (1969), 474-477. (Author's summary) 39 #5276

Probabilistic and weighted grammars. *Information and Control* 15 (1969), 529-544. (K. S. Fu) 42 #7452

On some families of formal languages obtained by regulated derivations. *Ann. Acad. Sci. Fenn. Ser. A I No.* 479 (1970), 18 *pp.* (J.-F. Perrot) 43 #1779

Periodically time-variant context-free grammars. *Information and Control* 17 (1970), 294-311. (Author's summary) 42 #7453

The generative capacity of transformational grammars of Ginsburg and Partee. *Information and Control* 18 (1971), 227-232. (S. Ginsburg) 43 #3054

Šalov, V. M.

Minimum principle of a quadratic functional for a hyperbolic equation. (Russian) *Differencial′nye Uravnenija* 1 (1965), 1338-1365. (W. H. Fleming) 32 #4405

Salpagarov, H. M.

(with Bykov, Ja. V.) On the theory of integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 2 (Russian), pp.* 91-116. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. (L. Krivošein (RŽMat 1963 #9 B312)) 37 #5644

The stability of integro-differential equations of Barbašin type. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 2 (Russian), pp.* 117-120. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. (Ja. Bykov (RŽMat 1963 #9 B313)) 37 #5645

The stability of solutions of systems of integro-differential equations. (Russian) *Proc. Seventh Sci. Conf. Dept. Higher Math. (Frunze,* 1962*) (Russian), pp.* 47-51. *Frunz. Politehn. Inst., Frunze,* 1963. (L. Krivošein (RŽMat 1964 #3 B386)) 40 #1747

Integral inequalities with Volterra type operators. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 277-280. (T. Andô) 36 #4394

The existence of solutions of a certain class of Volterra type integro-differential equations with a singularity. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No.* 6 *(Russian), pp.* 94-110. *Izdat. "Ilim", Frunze,* 1969. (L. Janos) 44 #760

The existence of solutions of linear and nonlinear Volterra type integro-differential equations with a singularity. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No.* 6 *(Russian), pp.* 111-124. *Izdat. "Ilim", Frunze,* 1969. (L. Janos) 44 #761

Salsburg, Zevi W.

(with Stillinger, Frank H., Jr.; Kornegay, Robert L.) Rigid disks at high density. *J. Chem. Phys.* 43 (1965), 932-943. (W. G. Hoover) 32 #2139

(with Stillinger, Frank H., Jr.) Limiting polytope geometry for rigid rods, disks, and spheres. *J. Statist. Phys.* 1 (1969), 179-225. (Authors' summary) 40 #3861

Saltikov, N.

Sur les problèmes d'intégration des équations aux dérivées partielles du second ordre. *Bull. Soc. Math. Phys. Serbie* 14 (1962), 3-16. (M. Janet) 32 #1440

Saltikow, Nicola N. See Saltikov, N.

Saltykova, Z. N.

Certain questions that are connected with the simultaneous distribution of functionally dependent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 16 (1971), 541-548. (S. A. Book) 44 #6015

Saltykow, Nicolas See Saltikov, N.

Saltzberg, Burton R.

(with Kurz, Ludwik; Nowosad, Pedro) On the solution of a quadratic integral equation arising in signal design. *J. Franklin Inst.* 281 (1966), 437-454. (J. J. Mehlberg) 35 #2683

Saltzer, Charles

Discrete potential and boundary value problems. *Duke Math. J.* 31 (1964), 299-320. (A. Friedman) 31 #1393

Topological codes. *Error Correcting Codes (Proc. Sympos. Math. Res. Center, Madison, Wis.,* 1968*), pp.* 111-129. *Wiley, New York,* 1968. (E. F. Assmus, Jr.) 38 #5512

Salukvadze, M. E.

The analytical design of an optimal control in the case of constantly acting disturbances. *Avtomat. i Telemeh.* 23 (1962), 721-731 *(Russian. English summary); translated as Automat. Remote Control* 23 (1962), 657-667. (B. A. Fleishman) 30 #5881

On the invariance of optimal controllers. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 650-652. (Author's summary) 29 #3317

Salum, H.

(with Mihhejeva, L.) Construction of abbreviated disjunctive normal forms of Boolean functions by the method of masks. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 458-460. (A. Ádám) 43 #6099

Salusbury, Thomas

* Mathematical collections and translations in two tomes (London, 1661 and 1665). In facsimile with an analytical and bio-bibliographical introduction by Stillman Drake. *Dawsons of Pall Mall, London; Zeitlin & ver Brugge, Los Angeles, Calif.,* 1967. *Tome I:* iv + 705 *pp. (8 plates); Tome II:* ii + 517 *pp.* (Editors) 39 #5307.

Salusti, E.

(with Prosperi, D.) On the Green's function method for systems with a fixed angular momentum. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 1194-1210. (G. H. Derrick) 32 #7068

(with Tesei, A.) On a semi-group approach to quantum field equations. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 122-138. (P. Federbush) 43 #1560

Salvadori, Luigi

Sulla stabilità asintotica delle posizioni d'equilibrio di un sistema olonomo in presenza di forze dissipative anche non lineari. (English summary) *Rend. Accad. Sci. Fis. Mat. Napoli* (4) 30 (1963), 145-152. (J. J. Schäffer) 29 #6130

Sulla stabilità dei moti merostatici di un sistema olonomo in presenza di forze dissipative anche non lineari. (English summary) *Rend. Accad. Sci. Fis. Mat. Napoli* (4) 30 (1963), 153-160. (J. J. Schäffer) 29 #6131

Ancora sulla ricerca di una funzione di Liapounoff sotto forma polinomiale per un sistema differenziale interessante la Meccanica. *Ricerche Mat.* 13 (1964), 92-96. (M. Bertolina) 29 #2492

Sulla stabilità dell'equilibrio nei casi critici. *Ann. Mat. Pura Appl.* (4) 69 (1965), 1-33. (R. Conti) 33 #373

Sui moti relativi rigidi locali e globali in relatività generale. *Ricerche Mat.* 15 (1966), 109-126. (T. Regge) 34 #5482

Caratterizzazione dei riferimenti rigidi ed in moto rigido globale rispetto ad un riferimento irrotazionale rigido e geodetico. *Ricerche Mat.* 15 (1966), 154-161. (A. H. Klotz) 38 #4127

Sull'estensione ai sistemi dissipativi del criterio di stabilità del Routh. *Ricerche Mat.* 15 (1966), 162-167. (E. Leimanis) 34 #8690

Sul secondo metodo di Liapunov. *Confer. Sem. Mat. Univ. Bari No.* 118 (1969), 21 *pp.* (N. Onuchic) 44 #558

Famiglie ad un parametro di funzioni di Liapunov nello studio della stabilità. *Symposia Mathematica, Vol. VI (INDAM, Rome,* 1970*), pp.* 309-330. *Academic Press, London,* 1971. (E. Fagiuoli) 43 #5118

Una generalizzazione di alcuni teoremi di Matrosov. *Ann. Mat. Pura Appl.* (4) 84 (1970), 83-93. (A. de Castro Brzezicki) 42 #3368

Salvadori, Mario

(with Lichtenstein, S.) Elastically supported spherical segments under antisymmetrical loads. *Topics in Applied Mechanics, pp.* 33-64. *Elsevier, Amsterdam,* 1965. (R. P. Nordgren) 31 #6433

Salvioli, Sarah

(with Bosch, Jorge) Sous-objets, quotients et images en catégories. *C. R. Acad. Sci. Paris* 260 (1965), 2111-2113. (A. Heller) 32 #4173

Salwicki, Andrzej

On a certain theorem of graph theory and its application to automatic programming. *Algorytmy* 2 (1965), 69-83. (B. A. Galler) 32 #618

Formalized algorithmic languages. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 227-232. (W. Vollmerhaus) 42 #5738

On the equivalence of *FS*-expressions and programs. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 275-278. (W. Vollmerhaus) 42 #7454

On the predicate calculi with iteration quantifiers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 279-285. (B. H. Mayoh) 43 #1847

Šalyt, A. I.

Certain results on sequential estimation of a shift parameter. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 57-58. (N. L. Johnson) 41 #1157

The optimal sequential estimation of a shift parameter in the class of invariant procedures. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 767-769. (N. L. Johnson) 42 #5393

Salz, J.

(with Mazo, J. E.) Probability of error for quadratic detectors. *Bell System Tech. J.* 44 (1965), 2165-2186. (From the authors' summary) 32 #3934

(with Mazo, J. E.) A theorem on conditional expectation. *IEEE Trans. Information Theory* IT-16 (1970), 379-381. (From the authors' summary) 42 #7020

Salzberg, Allan M.

Exact statistical thermodynamics of gravitational interactions in one and two dimensions. *J. Mathematical Phys.* 6 (1965), 158-160. (Author's summary) 30 #948

Salzer, Herbert E.

Obreschkoff-type integration and interpolation formulas for periodic functions. *J. Math. and Phys.* 43 (1964), 241-250. (R. A. Valentin) 30 #709

Divided differences for functions of two variables for irregularly spaced arguments. *Numer. Math.* 6 (1964), 68-77. (C. W. Clenshaw) 29 #2939

(with Levine, Norman) Proof that every integer $\leq$ 452,479,659 is a sum of five numbers of the form $Q_x = (x^3 + 5x)/6$, $x \geq 0$. *Math. Comp.* 22 (1968), 191-192. (B. Garrison) 37 #177

Chebyshev interpolation and quadrature formulas of very high degree. *Comm. ACM* 12 (1969), 271; *errata, ibid.* 12 (1969), 385. (Author's summary) 43 #5724

Formulas for bivariate hyperosculatory interpolation. *Math. Comp.* 25 (1971), 119-133. (Author's summary) 44 #4874

Salzman, Freda

(with Salzman, G.) Field theory of the electromagnetic interactions of massive charged vector bosons. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 924-943. (S. L. Glashow) 33 #1034

(with Salzmann, G.) A theory of *T*-violation. *Phys. Lett.* 15 (1965), 91-94. (F. Rohrlich) 32 #8797

Salzman, George

(with Salzman, F.) Field theory of the electromagnetic interactions of massive charged vector bosons. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 924-943. (S. L. Glashow) 33 #1034

(with Salzmann, F.) A theory of *T*-violation. *Phys. Lett.* 15 (1965), 91-94. (F. Rohrlich) 32 #8797

Salzman, W. R.

(with Baur, M. E.) Projection operators in quantum-mechanical perturbation theory. *J. Chem. Phys.* 42 (1965), 3291-3298. (E. M. Corson) 33 #6897

Salzmann, G. See Salzman, George.

Salzmann, Helmut R.

Zur Klassifikation topologischer Ebenen. II. *Abh. Math. Sem. Univ. Hamburg* 27 (1964), 145-166. (P. Dembowski) 29 #3948

Zur Klassifikation topologischer Ebenen. III. *Abh. Math. Sem. Univ. Hamburg* 28 (1965), 250-261. (P. Dembowski) 32 #2971

(with Busemann, Herbert) Metric collineations and inverse problems. *Math. Z.* 87 (1965), 214-240. (T. Ohkubo) 31 #1641

Polaritäten von Moulton-Ebenen. *Abh. Math. Sem. Univ. Hamburg* 29 (1966), 212-216. (H. Lüneburg) 33 #7916

Topological planes. *Advances in Math.* 2, *fasc.* 1, 1-60 (1967). (G. Pickert) 36 #3201

Kollineationsgruppen ebener Geometrien. *Math. Z.* 99 (1967), 1-15. (G. Pickert) 35 #3539

Kompakte vier-dimensionale Ebenen. *Arch. Math. (Basel)* 20 (1969), 551-555. (P. Dembowski) 40 #6360

Homomorphismen komplexer Ternärkörper. *Math. Z.* 112 (1969), 23-25. (W. Benz) 40 #3426

Geometries on surfaces. *Pacific J. Math.* 29 (1969), 397-402. (M. L. Curtis) 40 #2105

Kollineationsgruppen kompakter, vier-dimensionaler Ebenen. *Math. Z.* 117 (1970), 112-124. (K. Strambach) 43 #5409

Kollineationsgruppen kompakter 4-dimensionaler Ebenen. II. *Math. Z.* 121 (1971), 104-110. (K. Strambach) 44 #2137

Samadov, K.

(with Stecenko, V. Ja.) On the estimation of solutions of linear operator equations. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 3, 6-9. (P. Saworotnow) 37 #2041

Equations with monotone operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 13 (1970), *no.* 3, 3-6. (V. Zizler) 43 #6785

(with Stecenko, V. Ja.) On the geometry of cones in a Banach space. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik SSR* 14 (1971), *no.* 1, 11-14. (E. Gerlach) 44 #4489

Samal, G.

On the continuity in probability of a certain random series. *J. Indian Math. Soc. (N.S.)* 28 (1964), 145-149 (1965). (R. F. Gundy) 33 #8027

Fourier series associated with the sample functions of a stochastic process. *Proc. Cambridge Philos. Soc.* 67 (1970), 101-106. (J. N. Pandey) 40 #3599

Samandarov, A. G.

The large sieve in algebraic number fields. (Russian) *Mat. Zametki* 2 (1967), 673-680. (N. Greenleaf) 36 #6379

Equidistribution of prime ideals in classes H mod f. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 2, 11-13. (A. Schinzel) 37 #1341; erratum, 39, p. 1593

Samandarov, È. G.

Limiting behavior of the distribution of the waiting time. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 1, 3-7. (S. Kotz) 33 #5007

Samanich Skidmore, A. See Skidmore, A. Samanich.

Šamans´kiĭ, V. Ē.

* Методы численного решения краевых задач на ЭЦВМ. Часть I. Линейные краевые задачи. (Russian) [Methods of numerical solution of boundary problems on ÈCVM. Part I. Linear boundary probelms] *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. 196 *pp.* (W. S. Loud) 32 #8512

Numerical solution of difference boundary problems by means of difference problems of evolution type. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 102-108. (V. Thomée) 34 #7049

(with Èllanskaja, L. V.) General scheme of the methods of block iteration. (Russian) *Vyčisl. Mat. (Kiev) Vyp.* 1 (1965), 41-52. (B. Kellogg) 35 #1195

* Методы численного решения краевых задач на ЭЦВМ. Часть II. Нелинейные краевые задачи и задачи на собственные значения для дифференциальных уравнений. (Russian) [Methods of numerical solution of boundary value problems on a computer. Part II. Nonlinear boundary value problems and eigenvalue problems for differential equations] *Naukova Dumka, Kiev,* 1966. 244 *pp.* (K. Frankowski) 34 #5300

A realization of the Newton method on a computer. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 135-140. (J. M. Ortega) 34 #3781

(with Babenko, L. V.) Numerical construction of estimates for the minimizing functional in time-optimal problems. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 12-22. *Naukova Dumka, Kiev,* 1967. (H. A. Antosiewicz) 35 #6953

On a modification of the Newton method. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 133-138. (J. M. Ortega) 34 #5279

On solutions of boundary value probelms by iteration methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 541-550. (H. Shintani) 35 #7595

The application of Newton's method in the singular case. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 774-783. (H. Schwerdtfeger) 36 #2318

The method of linearization for solving nonlinear boundary value problems. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 218-227. (W. S. Loud) 37 #1092

A regularized Newton's method for the solution of nonlinear boundary value problems. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 514-526. (T. Čanturija) 43 #1442

Letter to the editor. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 138. (T. Čanturija) 43 #7079

Samanta, M.

A note on the problem of optimum truncation of a bivariate population in stratified random sampling. *Ann. Inst. Statist. Math.* 17 (1965), 363-375. (C. Hayashi) 33 #6800

Samardžiski, A.

On pseudoternaries. (Macedonian. English summary) *Bull. Soc. Phys. Macédoine* 20 (1969), 23-28 (1971). (G. Čupona) 44 #3196

Samarin, Ju. P.

(with Kval´vasser, V. I.) Quasi-periodic and periodic solutions of problems with moving boundaries for the wave equation in a one-dimensional space. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1541-1543. (M. D. Friedman) 34 #4713

Wave phenomena in regions with movable boundaries. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 337-341. (B. A. Fleishman) 38 #2451

Samarkandi, Schams-ed-Din. See Shams ad-Dīn as-Samarqandī.

Samarov, A. B.

A theorem on integral inequalities for the discontinuous Uryson operator. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 278-283. (A. Haimovici) 32 #4496

The existence of the solution of boundary value problems for the equation $y'' = f(t,y)$ with discontinuous right hand side. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969 *no.* 4 (83), 74-76. (J. Kolomý) 40 #1629

Samarski, A. A. See Samarskiĭ, A. A.

Samarskiĭ, A. A.

(with Tihonov, A. N.) Homogeneous difference schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 5-63. (A. J. Lohwater) 29 #5391

(with Tihonov, A. N.) Homogeneous difference schemes of high order of accuracy on non-uniform nets. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 425-440. (Walter Gautschi) 33 #888

A priori estimates for the solution of difference analogues of differential equations of parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 441-460. (L. B. Rall) 34 #3806

(with Tihonov, A. N.) The Sturm-Liouville difference problem. *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 784-805 *(Russian); translated as U.S.S.R. Comput. Math. and Math. Phys.* 4 (1962), 939-961. (W. Sangren) 33 #1976

(with Frjazinov, I. V.) On the convergence of difference schemes for a heat-conduction equation with discontinuous coefficients. *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 806-824 *(Russian); translated as U.S.S.R. Comput. Math. and Math. Phys. No.* 4 (1962), 962-982. (W. G. Strang) 34 #5320

Homogeneous difference schemes for non-linear equations of parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 25-56. (M. F. Wheeler) 33 #5144

An efficient difference method for solving a multi-dimensional parabolic equation in an arbitrary domain. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 787-811. (D. J. Vanderschel) 32 #609

(with Tihonov, A. N.) Homogeneous difference schemes on irregular meshes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 812-832. (H. J. Norton) 29 #5392

On the convergence of the method of fractional steps for the heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 1117-1121. (J. Douglas, Jr.) 31 #4196

* (with Tihonov, A. N.) Equations of mathematical physics. Translated by A. R. M. Robson and P. Basu; translation edited by D. M. Brink. A Pergamon Press Book. *The Macmillan Co., New York,* 1963. xvi + 765 *pp.* (Editors) 29 #2498

(with Tihonov, A. N.) On the theory of homogeneous difference schemes. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 266-273. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. Sarason) 35 #2499

On numerical methods of solving multi-dimensional problems. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 236-240. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (A. O. Garder, Jr.) 34 #2217

Locally one-dimensional difference schemes on non-uniform grids. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 431-466. (V. Saul´ev (RŽMat. 1965 #1 B509)) 36 #6165

Methods for increased order of accuracy for the higher-dimensional heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 812-840. (M. Kreopalova (RŽMat 1964 #4 B576)) 36 #7355

* (with Budak, B. M.; Tihonov, A. N.) A collection of problems on mathematical physics. Translated by A. R. M. Robson; translation edited by D. M. Brink. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. xii + 770 *pp.* (Editors) 29 #4969

* (with Tihonov, A. N.) Partial differential equations of mathematical physics. Vol. I. Translated by S. Radding. *Holden-Day, Inc., San Francisco, Calif.-London-Amsterdam,* 1964. ix + 380 *pp.* (Editors) 31 #3687

A difference scheme for increasing the order of accuracy for the heat equation in several variables. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 161-165. (J. Douglas, Jr.) 31 #4197

An economic algorithm for the numerical solution of systems of differential and algebraic equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 580-585. (D. C. Shreve) 32 #610

Locally homogeneous difference schemes for higher-dimensional equations of hyperbolic type in an arbitrary region. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 638-648. (H. J. Norton) 30 #4393

Economic difference schemes for equations of parabolic type with mixed derivatives. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 753-759. (H. J. Stetter) 31 #2837

Efficient difference schemes for systems of equations of parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 927-930. (J. Douglas, Jr.) 33 #5145

(with Andreev, V. B.) Iteration alternating direction schemes for the numerical solution of the Dirichlet problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1025-1036. (B. Kellogg) 30 #1618

(with Mostinskaja, S. B.) A numerical solution of the two-dimensional heat equation with discontinuous coefficients in polar coordinates. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 147-162. *Izdat. Moskovsk. Univ., Moscow,* 1965. (V. Thomee) 32 #6700

Difference methods for multi-dimensional differential equations in mathematical physics. (Russian) *Apl. Mat.* 10 (1965), 146-164. (T. I. Seidman) 33 #8111

On the exactness of the method of finite differences for the solution of the Dirichlet problem in an arbitrary region. (Russian) *Apl. Mat.* 10 (1965), 293-296. (B. Kellogg) 32 #1915

On the theory of difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1007-1010. (T. I. Seidman) 34 #3815

An additivity principle for constructing efficient difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1253-1256. (V. Thomée) 34 #7030

Efficient difference schemes for a hyperbolic system of equations with mixed derivatives and their application to the equations of the theory of elasticity. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 34-43. (M. L. Juncosa) 32 #4870

(with Moiseenko, B. D.) An efficient scheme for the through computation in a many dimensional Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 816-827. (A. D. Solomon) 34 #3807

(with Kurdjumov, S. P.; Volosevič, P. P.) Running waves in a medium with non-linear heat-conductivity. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 199-217. (L. Dragoş) 33 #2073

On monotone difference schemes for elliptic and parabolic equations in the case of a non-selfadjoint elliptic operator. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 548-551. (K. Rektorys) 32 #6702

(with Gulin, A. V.) On difference schemes on "slanted" nets. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 773-776. (L. Veidinger) 35 #7601

* (with Tihonov, A. N.) Уравнения математической физики.(Russian) [Equations of mathematical physics] Third corrected and augmented edition. *Izdat. "Nauka", Moscow,* 1966. 724 *pp.* (Editors) 35 #1982

Certain questions of the theory of difference schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 665-686. (V. Thomée) 34 #7050

* (with Tihonov, A. N.) Partial differential equations of mathematical physics. Vol. II. Translated by S. B. Radding. *Holden-Day, Inc., San Francisco, Calif.-London-Amsterdam,* 1967. xi + *pp.* 381-621. (Editors) 35 #6957

(with Hao Shou) Homogeneous difference schemes on non-uniform nets for equations of the fourth order. (Russian) *Comput. Methods Programming, VI (Russian), pp.* 3-16. *Izdat. Moskov. Univ., Moscow,* 1967. (W. S. Loud) 35 #7582

Works of A. N. Tihonov in numerical mathematics. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 176-184. 34 #5628

Regularization of difference schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 62-93. (J. S. Shipman) 35 #3930; erratum, 37, p. 1469

Classes of stable schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1096-1133. (I. M. Sheffer) 36 #4844

The stability of operator-difference schemes. (Russian) Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 181-186. (V. Thomée) 37 #6045

The choice of iteration parameters in the method of variable directions for a Dirichlet difference problem of a higher order of accuracy. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 548-551. (I. M. Sheffer) 37 #3782

Necessary and sufficient conditions for the stability of double layer difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 808-811. (J. S. Shipman) 38 #554

(with Gulin, A. V.) The stability of difference schemes in complex Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 1042-1045. (J. S. Shipman) 38 #555

The constructive theory of stability of difference schemes. *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol.* 1*: Mathematics, Software, pp.* 77-79. *North-Holland, Amsterdam,* 1969. 41 #9460

(See also Tihonov, A. N.; Il′in, V. A.; Svešnikov, A. G.; Arsen′ev, A. A., 40 #5405)

Double layer iteration schemes. (Russian) *Dokl. Akad. Nauk SSR* 185 (1969), 524-527. (J. S. Shipman) 39 #2306

(with Bicadze, A. V.) Some elementary generalizations of linear elliptic boundary value problems. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 739-740. (P. C. Fife) 40 #540

Iterational double layer schemes for nonselfadjoint equations. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 35-38. (B. A. Bondarenko) 40 #766

(with Popov, Ju. P.) Totally conservative difference schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 953-958. (J. Kopáček) 41 #4825

(with Gulin, A. V.) The stability of difference schemes with respect to the right hand sides. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 285-288. (J. S. Shipman) 42 #3591

The stability of triple-layer difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 998-1001. (V. Thomée) 42 #1361

(with Popov, Ju. P.) Completely conservative difference schemes for the equations of gas dynamics in Euler's variables. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 773-779. (B. A. Bondarenko) 43 #5745

(with Popov, Ju. P.) Completely conservative difference schemes for the equations of magneto-hydrodynamics. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 990-998. (K.-H. Hauer) 43 #4351

(with Degtjarev, L. M.; Favorskiĭ, A. P.) Numerical solution of the interior stationary problems of electrodynamics. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1409-1418. (S.-F. Sburlan) 43 #5739

(with Frjazinov, I. V.) Difference schemes for the solution of the Dirichlet problem in an arbitrary domain for an elliptic equation with variable coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 385-410. (B. A. Bondarenko) 44 #2362

(with Frjazinov, I. V.) The convergence of a locally one-dimensional scheme of the solution of a multidimensional heat equation on nonuniform networks. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 642-657. (T. Styś) 44 #6174

Samarsky, A. A. See Samarskiĭ, A. A.

Sambasiva Rao, P.

(with Keshav Rao, K.; Purushotham, G.) On the geometry of field-lines in hydromagnetic fluid flows. *Tensor (N.S.)* 22 (1971), 141-147. (R. P. Kanwal) 44 #6208

Sâmboan, G. See Sîmboan, Gabriel.

Samborskiĭ, S. N.

Triply and quadruply connected planer graphs. (Russian) *Automata Theory and Methods of Formalized Synthesis of Computers and Systems (Proc. Seminar, Kiev,* 1968*). No.* 5 *(Russian), pp.* 3-9. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. (Editors) 39 #5404

Samed El' Nadi, Haĭrija El'. See El' Nadi, Haĭrija El'-Samed.

Samelson, Hans

(with Bott, Raoul) Correction to "Applications of the theory of Morse to symmetric spaces". *Amer. J. Math.* 83 (1961), 207-208. (R. J. Crittenden) 30 #589

On the Brouwer fixed point theorem. *Portugal. Math.* 22 (1963), 189-191. (M. Edelstein) 35 #7325

On manifolds with many closed geodesics. *Portugal. Math.* 22 (1963), 193-196. (M. do Carmo) 37 #5819

A note on the Bockstein operator. *Proc. Amer. Math. Soc.* 15 (1964), 450-453. (R. H. Szczarba) 29 #1642

On Poincaré duality. *J. Analyse Math.* 14 (1965), 323-336. (P. J. Hilton) 31 #5203

On the Thom class of a submanifold. *Michigan Math. J.* 12 (1965), 257-261. (R. K. Lashof) 31 #5204

On small maps of manifolds. *Pacific J. Math.* 15 (1965), 1401-1403. (R. Brown) 33 #722

On de Rham's theorem. *Topology* 6 (1967), 427-432. (C. B. Allendoerfer) 35 #6156

* Notes on Lie algebras. Van Nostrand Reinhold Mathematical Studies, No. 23. *Van Nostrand Reinhold Co., New York-London-Melbourne,* 1969. vi + 165 *pp. (loose errata)* (B. Kolman) 40 #7322

On the Milnor-Spanier and Atiyah duality theorems. *Michigan Math. J.* 16 (1969), 1-2. (J. Kister) 39 #6338

Orientability of hypersurfaces in R^n. *Proc. Amer. Math. Soc.* 22 (1969), 301-302. (J. P. Levine) 39 #6339

Samelson, Klaus

* (with Baumann, R.; Feliciano, M.; Bauer, F. L.) Introduction to ALGOL. Prentice-Hall Series in Automatic Computation. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1964. x + 142 *pp.* (B. A. Galler) 29 #751

* (with Bauer, Friedrich L.; Heinhold, Josef; Sauer, Robert) Moderne Rechenanlagen; eine Einführung. Leitfäden der angewandten Mathematik und Mechanik, Band 5. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1965. 357 *pp.* (L. Collatz) 32 #577

* (with Anđelić, T. P.; Aumann, G.; Bauer, F. L.; Bulirsch, R.; Künzi, H. P.; Rutishauser, H.; Sauer, R.; Stoer, J.) Mathematische Hilfsmittel des Ingenieurs. Teil III. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften. Band 141. *Springer-Verlag, Berlin-New York,* 1968. xix + 535 *pp.* (E. Kreyszig) 37 #7115

Sames, D.

Thermische Relaxation in Flüssigkeiten. *Ann. Physik* (7) 15 (1965), 363-382. (R. Kubo) 33 #2351

Sami, Mariagiovanna

(with Luccio, Fabrizio) On the decomposition of networks in minimally interconnected subnetworks. *IEEE Trans. Circuit Theory* CT-16 (1969), 184-188. (Authors' summary) 39 #3910

Šamilina, L. S.

The passage to a linear system with half a degree of freedom. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 278-280. (V. I. Kirgetov (RŽMeh 1964 #7 A129)) 40 #2257

(with Makarov, I. P.) A piecewise smooth function in the role of a Ljapunov function. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 29-38. (P. Seibert) 39 #564

An application of a piecewise smooth Ljapunov function. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 70-76. (J. K. Hale) 37 #4354

A generalized logarithmic norm. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 76-81. (A. S. Householder) 37 #2422

The existence of linear Ljapunov functions. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 161-166. (P. C. Das) 41 #2152

Šamir, E. See Shamir, Eliahu.

Samiullah, M.

(with Barut, A. O.) Connection between the relativistic and nonrelativistic form of the nucleon-nucleon amplitude. *Phys. Rev.* (2) 135 (1964), B1356-B1358. (E. C. G. Sudarshan) 31 #4362

Samko, G. P.

A certain generalization of Newton's iteration. (Russian) *Rostov.-na-Donu Gos. Ped. Inst. Fiz.-Mat. Fak. Učen. Zap. Vyp.* 5 (42) (1960), 3-10. (Editors) 41 #1212

Samko, S. G.

General singular equation in an exeptional case. (Russian) *Differencial′nye Uravnenija* 1 (1965), 1108-1116. (R. T. Seeley) 33 #1765

A generalized Abel equation and an equation with Cauchy kernel. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1019-1022. (J. Brilla) 38 #3704

A general singular equation on an open contour, and a generalized Abel equation. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 44-47. (J. F. Heyda) 37 #5631

On the reduction of certain integral equations of the first kind in the theory of elasticity and hydrodynamics to equations of the second kind. *Prikl. Mat. Meh.* 31 (1967), 343-345 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 368-371. (K. N. Srivastava) 39 #730

A generalized Abel equation and fractional integration operators. (Russian) *Differencial′nye Uravnenija* 4 (1968), 298-314. (W. Żakowski) 37 #3295

Noether's theory for the generalized Abel integral equation. (Russian) *Differencial′nye Uravnenija* 4 (1968), 315-326. (W. Żakowski) 37 #3296

The integral modulus of continuity of potentials with densities that are summable on the real line with weight. (Russian) *Mathematical Analysis and its Applications (Russian), pp.* 175-184. *Izdat. Rostov. Univ., Rostov-na-Donu,* 1969. (M. Cotlar) 44 #7383

Abel's generalized equation, Fourier transform, and convolution type equations. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 743-746. (L. Cattabriga) 40 #4713

The solvability in closed form of singular integral equations. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 483-485. (D. Mitrović) 41 #761

A general singular operator and an integral operator with automorphic kernel. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 1 (80), 67-77. (W. Żakowski) 40 #3219

(with Karapetjanc, N. K.) A certain class of convolution type integral equations, and its application. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 981-984. (C. Corduneanu) 42 #3504

(with Karapetjanc, N. K.) The index of certain classes of integral operators. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 504-507. (M. Cotlar) 44 #2100

(with Karapetjanc, N. K.) The functional equation $\psi(x + \alpha) - b(x)\psi(x) = g(x)$. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 5, 441-448. (L. Losonczi) 44 #2101

Abel's generalized integral equation on the line. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 8 (99), 83-93. (D. Przeworska-Rolewicz) 43 #840

Operators of potential type. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 299-301. (S. Buryšek) 42 #8340

(with Karapetjanc, N. K.) The discrete Wiener-Hopf operators with oscillating coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 200 (1971), 17-20. (D. Przeworska-Rolewicz) 44 #4544

(with Karapetjanc, N. K.) A certain class of convolution type integral equations and its application. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 714-726. (A. Haimovici) 44 #3154

Integral equations of the first kind with kernel of potential type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 4 (107), 78-86. (D. Przeworska-Rolewicz) 44 #5736

A certain class of potential type operators on the line. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 5 (108), 92-100. (D. Przeworska-Rolewicz) 44 #5737

de Sam Lazaro, José

Sur la représentation et l'approximation des processus strictement stationnaires par les intégrales de Wiener. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1460-A1462. (D. Babbitt) 37 #2313

Sur les moments spectraux d'ordre supérieur. *Séminaire de Probabilitiés (Univ. Strasbourg,* 1967*), Vol. II, pp.* 123-139. *Springer, Berlin,* 1968. (E. J. Hannan) 38 #1733

(with Meyer, P. A.) Méthodes de martingales et théorie des flots. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 116-140. (A. D. Wentzell (Ventcel′)) 44 #6026

Şamli, Ş. B.

Über die Konstruktion von Polynomen, die ein gegebenes Gebiet näherungsweise auf einen Kreis abbilden. *Z. Angew. Math. Mech.* 43 (1963), *suppl.*, T32-T35. (John Todd) 33 #265

Über den Gleichgewichtszustand eines ebenen elastischen Gebietes mit konstanter Spannung an drei Rändern. *Z. Angew. Math. Mech.* 43 (1963), *suppl.*, T100-T103. (R. M. Morris) 32 #6752

Sammet, Jean E.

Survey of formula manipulation. *Comm. ACM* 9 (1966), 555-569. (Author's summary) 33 #3487

Samohin, M. V.

Determination of plasma of transport coefficients by the Grad method. *Ž. Tehn. Fiz.* 32 (1962), 1055-1062 *(Russian); translated as Soviet Physics Tech. Phys.* 7 (1963), 772-777. (D. C. Montgomery) 31 #3168

Samoĭlenko, A. M.

(with Mitropol′s′kiĭ, Ju. O.) On the structure of trajectories on toroidal manifolds. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 984-986. (J. Moser) 32 #1424

On the structure of trajectories on the torus. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 769-782. (J. Moser) 32 #1425

Investigation of differential equations with irregular right-hand side. (Russian. German and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 106-113. (C. S. Coleman) 34 #3038

Certain questions in the investigation of differential equations with an irregular right side. (Russian. Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 11(15) (1965), *fasc.* 3-4, 85-92. (M. Ráb) 34 #1629

A numerical-analytic method for investigation of periodic systems of ordinary differential equations. I. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 4, 82-93. (W. S. Loud) 33 #3469a

(with Mitropol′s′kiĭ, Ju. O.) On constructing solutions of linear differential equations with quasiperiodic coefficients by the method of improved convergence. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 6, 42-59. (O. Vejvoda) 33 #5992

Reducibility of a system of ordinary differential equations in a neighborhood of a smooth toroidal manifold. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1047-1072. (J. Moser) 34 #1639

A numerical-analytic method for analyzing countable systems of periodic differential equations. (Russian) *Math. Phys.* (1966) *(Russian), pp.* 115-132. *Naukova Dumka, Kiev,* 1966. (V. Lakshmikantham) 34 #6261

A numerical-analytic method for investigation of periodic systems of ordinary differential equations. II. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 2, 50-59. (W. S. Loud) 33 #3469b

Reducibility of a system of ordinary differential equations in a neighborhood of a smooth integral manifold. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 41-64. (W. T. Kyner) 35 #4494

(with Mitropol′s′kiĭ, Ju. O.) On the question of the construction of solutions of linear differential equations with quasi-periodic coefficients. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 185-198. *Naukova Dumka, Kiev,* 1967. (M. Ráb) 35 #3111

(with Gadionenko, A. Ja.) Rotational motions of autonomous systems of the second order. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 225-236. *Naukova Dumka, Kiev,* 1967. (P. Sagirow) 35 #3158

(with Martinjuk, D. Ī.) Periodic solutions of non-linear systems with delay. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 128-145. *Naukova Dumka, Kiev,* 1967. (A. Halanay) 35 #4541

Trajectories on the torus. (Ukrainian) *Third Sci. Conference of Young Ukrainian Mathematicians (Kiev,* 1966*) (Ukrainian), pp.* 73-90. *Vidavn. "Naukova Dumka", Kiev,* 1967. (D. Bobrowski) 39 #4498

Periodic solutions of second-order nonlinear equations. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1903-1912. (A. Halanay) 36 #4079

(with Myškis, A. D.) Systems with impulses at given instants of time. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 202-208. (E. Leimanis) 36 #4052

On the question of a basis for the method of averaging in the investigation of vibrations in systems subject to impulsive action. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 5, 96-104. (J. S. Shipman) 36 #473

The equivalence of a smooth function to a Taylor polynomial in the vicinity of a critical point of finite type. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 4, 63-69. (V. Palamodov (RŽMat 1969 #5 B121)) 42 5132

The reducibility of systems of linear differential equations with quasiperiodic coefficients. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 279-281. (J. A. Morrison) 37 #504

* (with Bogoljubov, N. N.; Mitropol′s′kiĭ, Ju. O.) Метод ускоренной сходимости в нелинейной механике. (Russian) [The method of accelerated convergence in nonlinear mechanics] *Izdat. "Naukova Dumka", Kiev,* 1969. 247 *pp.* (E. Leimanis) 43 #5107

Samoĭlenko, Ju. I.

(with Mozgovaja, È. A.) Construction of an optimal algorithm for extremal control based on the principle of dynamic programming. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 5, 30-38. 34 #8858

(with Volkovič, V. L.) The optimal filtration of a random field by a distributed receiving apparatus. (Russian) *Complex Systems of Control* (1966) *(Russian), pp.* 61-71. *Naukova Dumka, Kiev,* 1966. (Editors) 39 #5232

Samoĭlenko, Ju. S.

(with Korsunskiĭ, L. M.) Integral representation of invariant positive definite matrix kernels. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 487-500. (Ju. M. Berezanskiĭ) 42 #3566

(with Korsunskiĭ, L. M.) Integral representations of invariant Hermitian functionals. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 91-96. (Ju. M. Berezanskiĭ) 42 #833

Samoĭlenko, L. G.

A property of a grammar of type 1/2. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian)*, pp. 489-495. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. 34 #4073

Samoĭlenko, S. I.

The construction of cyclic noise-stable codes and the analysis of their correcting properties. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 516-519. (P. Constantinescu) 32 #9149

Šamojan, F. A.

The closed ideals in a certain algebra of rapidly growing analytic functions. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 4 (1969), *no.* 4, 267-277. (E. Strzelecki) 42 #5053

(with Havin, V. P.) Analytic functions with a Lipschitzian modulus of the boundary values. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 19 (1970), 237-239. (I. N. Baker) 44 #6971

Division by an inner function in certain spaces of functions that are analytic in the disc. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 22 (1971), 206-208. (Boris Pavlov) 44 #6973

Samokhin, M. V. See Samohin, M. V.

Samokiš, B. A.

(with Daugavet, I. K.) A posteriori error estimate in the numerical solution of differential equations. (Russian) *Metody Vyčisl.* 1 (1963), 52-57. (M. Urabe) 32 #8505

On the coefficients of polynomials approximating a function uniformly on a segment. (Russian) *Metody Vyčisl.* 1 (1963), 58-65. (E. L. Albasiny) 32 #4431

Gradient relaxation in the method of Jacobi. (Russian) *Metody Vyčisl.* 2 (1963), 3-9. (V. Zaguskin (RŽMat 1964 #6 B605)) 36 #6128

A remark on the numerical determination of integrals. (Russian) *Metody Vyčisl.* 2 (1963), 45-49. (P. C. Hammer) 32 #4849

} The application of Fourier's method to the solution of difference equations. (Russian) *Metody Vyčisl.* 4 (1967), 97-101. (E. L. Albasiny) 37 #2480

Samovol, V. S.

The reduction of dynamical systems to triangular form. (Russian) *Differencial′nye Uravnenija* 5 (1969), 1076-1082. (E. Leimanis) 40 #488

Sampaio Xavier, Airton F. See Xavier, Airton F. Sampaio.

Sampei, Yoemon

On the complete basis for the Δ^1_2 sets. *Comment. Math. Univ. St. Paul.* 13 (1964/65), 81-88. (G. Fodor) 32 #7416

On the principle of effective choice and its applications. *Comment. Math. Univ. St. Paul.* 15 (1966), 29-42. (Đ. Kurepa) 35 #1486

On a structure of groupoids. *J. Karnatak Univ. Sci.* 13 (1968), 61-70. (D. A. Robinson) 42 #1931

A proof of Mansfield's theorem by forcing method. *Comment. Math. Univ. St. Paul.* 17 (1969), 99-103. (A. Máté) 40 #1283

Corrections to: "On the principle of effective choice and its applications". *Comment. Math. Univ. St. Paul.* 17 (1969), 104. (Editors) 39 #5347

On the relativization of Δ^1_2 sets of reals. *Comment. Math. Univ. St. Paul.* 18 (1970), 149-151. (G. Fodor) 43 #1828

Sampford, M. R.

On sampling without replacement with unequal probabilities of selection. *Biometrika* 54 (1967), 499-513. (J. N. K. Rao) 36 #6100

Sampławski, H.

On bilinear series in Banach spaces. I. *Prace Mat.* 11 (1967), 145-156. (D. R. Arterburn) 36 #1880

Fourier series and structural properties of functions. *Prace Mat.* 12 (1969), 193-199. (P. G. Rooney) 40 #6154

Samplonius, Yvonne. See Dold-Samplonius, Yvonne.

Samplonius, Yvonne Dold. See Dold-Samplonius, Yvonne.

Sampson, Joseph H.

(with Eells, James, Jr.) Harmonic mappings of Riemannian manifolds. *Amer. J. Math.* 86 (1964), 109-160. (J. A. Wolf) 29 #1603

(with Eells, James, Jr.) Énergie et déformations en géométrie différentielle. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 61-69. (E. A. Feldman) 30 #2529

(with Eells, James, Jr.) Variational theory in fibre bundles. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto, 1965)*, pp. 22-33. *Nippon Hyoronsha, Tokyo*, 1966. (E. A. Feldman) 35 #7352

* (with Mostow, George D.) Linear algebra. *McGraw-Hill Book Co., New York-London-Toronto, Ont.*, 1969. x + 296 *pp.* (A. R. Amir-Moéz) 42 #7673

Sampson, P. F.

(with Jennrich, R. I.) Rotation for simple loadings. *Psychometrika* 31 (1966), 313-323. (P. S. Dwyer) 34 #3716

(with Jennrich, R. I.) Application of stepwise regression to non-linear estimation. *Technometrics* 10 (1968), 63-72. (P. Fortunati) 36 #7267

Šamraeva, L. V.

The structure of the prime ideals of certain rings of infinitely differentiable functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 1101-110 (G. J. O. Jameson) 40 #1780

Principal primary ideals of the ring of functions regular in the disc and differentiable on its boundary. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 278-280. (S. Lajos) 42 #3582

Šamrìkov, B. M.

(with Petrov, B. N.; Nelepin, R. A.) Construction of separatrix surfaces and stability regions in the phase spaces of nonlinear systems. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 530-532. (E. O. Roxin) 42 #610

Šams ad-Din Muhammad ibn Ašraf al-Husaĭni as-Samarkandi. See Shams ad-Dīn as-Samarqandī.

Samsonenko, S. V.

On expansions for functions defined by their moments. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian)*, pp. 362-366. *Fizmatgiz, Moscow*, 1961. (M. Tomić 32 #4432

Samsonija, Z. V.

On a numerical method of determining the conformal mapping function. (Georgian. Russian summary) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 3 (1963), 227-236. (H. Tornehave) 33 #1953

Approximate construction of a conformal mapping function by the method of integral equations. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 36 (1964), 19-25. (D. Gaier) 30 #1238

Conformal moduli of close doubly connected regions. (Georgia Russian summary) *Sakharth. SSR Mech. Akad. Gamothvl. Centr. Šrom.* 6 (1965), *no.* 3, 132-152. (G. Biriuk) 33 #5882

The approximation of quasiconformal mappings that are close to conformal ones. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 63 (1971), 271-272. (K. W. Lucas) 44 #5457

Samsonov, V. A.

On the problem of a minimum of a functional in the investigation of the stability of motion of a body containing fluid. *Prikl. Mat. Meh.* 31 (1967), 523-526 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 548-551. (G. Power) 38 #6795

Šamsutdinov, M. M.

(with Caljuk, Z. B.) On the question of the asymptotic behavior of the solutions of Volterra's linear integral equations (Russian) *Differencial′nye Uravnenija* 6 (1970), 1567-1573. (L. Guggenbuhl) 43 #7882

Samucenko, A. V.

Investigation of the convergence of schemes of increased accuracy of the method of integral relations for elliptic equations. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 6, 77-82. (C. Ilioi) 44 #7774

Samudinov, I.

(with Ved′, Ju. A.) The unique solvability of two types of limit boundary value problems for integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 3 (Russian)*, pp. 143-159. *Izdat. "Ilim", Frunze*, 1965. (Ju. Lando (RŽMat 1967 #1 B196)) 37 4537

(with Ved′, Ju. A.) Boundary value problems with conditions at infinity for second order nonlinear integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 5 (Russian)*, pp. 58-80. *(errata insert) Izdat. "Ilim", Frunze*, 1968. (O. E. Stanaitis) 41 #775

(with Ved′, Ju. A.) The solvability of limit boundary value problems for nonlinear second order integro-differential equation (Russian) *Studies in Integro-Differential Equations in Kirghizia No. 6 (Russian)*, pp. 86-93. *Izdat. "Ilim", Frunze*, 1969. (C. Avramescu) 44 #762

Samuel, Christian

(with Jonac, Marie-Louise) Sur les sous-espaces complémenté de *C(S)*. *Bull. Sci. Math.* (2) 94 (1970), 159-163. (D. E. Wulber 42 #6592

Sur certains espaces $C_\sigma(S)$ et sur les sous-espaces complémen de *C(S)*. *Bull. Sci. Math.* (2) 95 (1971), 65-82. (D. E. Wulbert) 44 #3115

Samuel, Ester

Asymptotic solutions of the sequential compound decision problem. *Ann. Math. Statist.* 34 (1963), 1079-1094. (James Hanna 30 #3553

Note on a sequential classification problem. *Ann. Math. Statist.* 34 (1963), 1095-1097. (James Hannan) 30 #3554

An empirical Bayes approach to the testing of certain parametric hypotheses. *Ann. Math. Statist.* 34 (1963), 1370-1385. (James Hannan) 31 #2811

(The sign } indicates an entry in the supplement.)

Convergence of the losses of certain decision rules for the sequential compound decision problem. *Ann. Math. Statist.* 35 (1964), 1606-1621. (James Hannan) 31 #5302

(with Bachi, Roberto) Measure of distances of distribution functions and some applications. *Metron* 23 (1964), 83-122. (Z. W. Birnbaum) 33 #1871

Note on estimating ordered parameters. *Ann. Math. Statist.* 36 (1965), 698-702. (A. K. Gayen) 31 #1739

Sequential compound estimators. *Ann. Math. Statist.* 36 (1965), 879-889. (James Hannan) 32 #537

The compound decision problem in the opponent case. *Israel J. Math.* 3 (1965), 117-126. (J. R. Blum) 33 #6791

On simple rules for the compound decision problem. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 238-244. (A. K. Gayen) 34 #5240

Estimators with prescribed bound on the variance for the parameters in the binomial and Poisson distributions, based on two-stage sampling. *J. Amer. Statist. Assoc.* 61 (1966), 220-227. (N. L. Johnson) 33 #5041

(with Robbins, Herbert E.) An extension of a lemma of Wald. *J. Appl. Probability* 3 (1966), 272-273. (L. Sucheston) 33 #3331

Sequential compound rules for the finite decision problem. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 63-72. (A. K. Gayen) 34 #5241

On the existence of the expectation of randomly stopped sums. *J. Appl. Probability* 4 (1967), 197-200. (Y. S. Chow) 34 #8587

The compound statistical decision problem. *Sankhyā Ser. A* 29 (1967), 123-140. (Editors) 35 #7480

Sequential maximum likelihood estimation of the size of a population. *Ann. Math. Statist.* 39 (1968), 1057-1068. (D. Siegmund) 37 #1028

Comparison of seuqential rules for estimation of the size of a population. (French summary) *Biometrics* 25 (1969), 517-527. (Author's summary) 39 #7751

Randomized sequential tests. A comparison between curtailed single-sampling plans and sequential probability ratio tests. *J. Amer. Statist. Assoc.* 65 (1970), 431-437. (Author's summary) 43 #5659

On some problems in operations research. *J. Appl. Probability* 7 (1970), 157-164. (C. P. Tsokos) 44 #1450

Samuel, Isaac

Formes réduites des déterminants caractéristiques des matrices d'ordre pair. *C. R. Acad. Sci. Paris* 258 (1964), 420-421. (F. L. Bauer) 29 #4767

Formes réduites des déterminants caractéristiques des matrices. *C. R. Acad. Sci. Paris* 259 (1964), 1615-1617. (F. L. Bauer) 29 #4768

Relations entre les vecteurs propres de deux matrices singulières, transposées l'une de l'autre. *C. R. Acad. Sci. Paris* 261 (1965), 2431-2434. (D. Ž. Djoković) 33 #2640

Etude de la variation des valeurs propres produite par l'introduction d'un élément diagonal dans une matrice alternante. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1060-A1062. (C. G. Cullen) 38 #2937

Relations internes, indépendantes des valeurs propres, des composantes d'un vecteur propre d'une matrice alternante. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A606-A609. (T. A. Porsching) 41 #9432

Relations entre leurs composantes, communes à tous les vecteurs propres d'une matrice carrée. Existence et propriétés des matrices carrées propres. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A894-A895. (R. F. Albrecht) 41 #8444

Calcul direct des composantes des vecteurs propres d'une matrice symétrique *M*. Calcul par récurrence des éléments des puissances positives de *M*. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A600-A602. (Author's summary) 42 #3999

Samuel, Pierre

Un exemple d'anneau factoriel. *Bol. Soc. Mat. São Paulo* 15 (1960), 1-4 (1964). (Y. Nakai) 29 #5856

Le théorème de Hahn-Banach en géométrie algébrique. *Univ. e Politec. Torino Rend. Sem. Mat.* 20 (1960/61), 127-134. (M. Rosenlicht) 29 #5820

* Corps de fonctions algébrique. Notas de Matemática, No. 28. *Instituto de Matemática Pura e Aplicada do Conselho Nacional de Pesquisas, Rio de Janeiro*, 1963. v + 101 *pp.* (M. Rosenlicht) 30 #4757

(with Micali, A.; Salmon, P.) Intégrité et factorialité des algèbres symétriques. *Proc. Fourth Brazilian Math. Colloq.* (1963) *(Portuguese), pp.* 61-76. *Conselho Nacional de Pesquisas, São Paulo*, 1965. (R. E. MacRae) 34 #7556

Travaux d'Igusa sur les formes modulaires de genre 2. *Séminaire Bourbaki*, 16^e *année:* 1963/64, *Fasc.* 2, *Exposé* 267, 8 *pp. Secrétariat mathématique, Paris*, 1964. (M. Eichler) 30 #4758

* Lectures on unique factorization domains. Notes by M. Pavman Murthy. Tata Institute of Fundamental Research Lectures on Mathematics, No. 30. *Tata Institute of Fundamental Research, Bombay*, 1964. ii + 84 + iii *pp.* (M. Nagata) 35 #5428

Anneaux gradués factoriels et modules réflexifs. *Bull. Soc. Math. France* 92 (1964), 237-249. (M. Nagata) 32 #4160

Classes de diviseurs et dérivées logarithmiques. *Topology* 3 (1964), *suppl.* 1, 81-96. (T. Nakayama) 29 #3490

Modules réflexifs et anneaux factoriels. *Les Tendances Géom. en Algèbre et Théorie des Nombres, pp.* 219-223. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1966. (M. Nagata) 34 #7557

* Lectures on old and new results on algebraic curves. Notes by S. Anantharaman. Tata Institute of Fundamental Research Lectures on Mathematics, No. 36. *Tata Institute of Fundamental Research, Bombay*, 1966. ii + 127 + iii *pp.* (M. Miwa) 36 #5140

À propos du théorème des unités. *Bull. Sci. Math.* (2) 90 (1966), 89-96. (Y. Nakai) 34 #4296

Groupes finis d'automorphismes des anneaux de séries formelles. *Bull. Sci. Math.* (2) 90 (1966), 97-101. (S. Moran) 35 #180

Compléments à un article de Hans Grauert sur la conjecture de Mordell. *Inst. Hautes Études Sci. Publ. Math. No.* 29 (1966), 55-62. (J. V. Armitage) 34 #4272

* Méthodes d'algèbre abstraite en géométrie algébrique. Seconde édition, corrigée. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 4. *Springer-Verlag, Berlin-New York*, 1967. xii + 133 *pp.* (Editors) 35 #4211

* Théorie algébrique des nombres. *Hermann, Paris*, 1967. 130 *pp.* (O. F. G. Schilling) 35 #6643

(See also Anneaux de Gorenstein, et torsion en algèbre commutative, 37 #1435)

Qu'est-ce qu'une quadrique? *Enseignement Math.* (2) 13 (1967), 129-130. (D. Gallarati) 36 #6410

Sur l'organisation d'un cours d'arithmétique. *Enseignement Math.* (2) 13 (1967), 223-231 (1968). (L. Carlitz) 38 #1052

Courbes algébriques. *Enseignement Math.* 13 (1967), 305-311 (1968). (D. Gallarati) 38 #5783

(See also Séminaire d'algèbre commutative, 39 #6867)

Unique factorization. *Amer. Math. Monthly* 75 (1968), 945-952. (R. M. Fossum) 39 #190

On a construction due to P. M. Cohn. *Proc. Cambridge Philos. Soc.* 64 (1968), 249-250. (H. H. Brungs) 36 #5118

(See also Merker, Jean, 40 #132)

* Algebraic theory of numbers. Translated from the French by Allan J. Silberger. *Houghton Mifflin Co., Boston, Mass.*, 1970. 109 *pp.* (Editors) 42 #177

About Euclidean rings. *J. Algebra* 19 (1971), 282-301. (R. M. Fossum) 43 #6190

Samuels, P.

V-topologies and their application to abstract covering theorems. *J. London Math. Soc.* 43 (1968), 369-374. (Anne K. Steiner) 37 #3497

Samuels, S. M.

(with Chow, Y. S.; Moriguti, S.; Robbins, H.) Optimal selection based on relative rank (the "Secretary problem"). *Israel J. Math.* 2 (1964), 81-90. (D. V. Lindley) 31 #855

On the number of successes in independent trials. *Ann. Math. Statist.* 36 (1965), 1272-1278. (J. N. Darroch) 31 #4066

On a Chebyshev-type inequality for sums of independent random variables. *Ann. Math. Statist.* 37 (1966), 248-259. (Z. W. Birnbaum) 32 #4723

(with Anderson, T. W.) Some inequalities among binomial and Poisson probabilities. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.*, 1965/66*), Vol. I: Statistics, pp.* 1-12. *Univ. California Press, Berkeley, Calif.*, 1967. (H. E. Reinhardt) 35 #5027

Randomized rules for the two-armed-bandit with finite memory. *Ann. Math. Statist.* 39 (1968), 2103-2107. (C. A. B. Smith) 38 #2890

The Markov inequality for sums of independent random variables. *Ann. Math. Statist.* 40 (1969), 1980-1984. (H. E. Reinhardt) 41 #6268

Samuelson, D. James

Semi-primal clusters. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 689-701. (M. Gould) 43 #7393

Samuelson, Paul Anthony

Using full duality to show that simultaneously additive direct and indirect utilities implies unitary price elasticity of demand. *Econometrica* 33 (1965), 781-796. 33 #7106

Law of conservation of the capital-output ratio. *Proc. Nat. Acad. Sci. U.S.A.* 67 (1970), 1477-1479. (K. J. Arrow) 43 #5889

Stochastic speculative price. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 335-337. (K. J. Arrow) 42 #7236

Generalized predator-prey oscillations in ecological and economic equilibrium. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 980-983. (J. H. Case) 43 #4492

Samuelsson, Åke

On the derivatives of bounded analytic functions. *Ark. Mat.* 5, 287-300 (1963/65). (V. Levin (RŽMat 1965 #9 B131)) 36 #1660

A set of uniqueness for functions, analytic and bounded in the unit disc. *Ark. Mat.* 7, 193-200 (1967). (J. M. Anderson) 37 #1618

On radial zeros of Blaschke products. *Ark. Mat.* 7, 477-494 (1968). (D. C. Rung) 39 #2988

Samuĭlov, A. Z.

(with Jablonskiĭ, A. I.) The rational solutions of a first order nonlinear differential equation. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 3, 30-34. (Z. Rubinstein) 44 #508

Algebraic solutions of Abel's differential equation. (Russian) *Differencial′nye Uravnenija* 7 (1971), 1721-1722. (Z. Nehari) 44 #7023

Samuĭlov, N. N.

Solution of a plane Cauchy problem for the differential equation system of the theory of heat and mass transfer. (Russian) *Differencial'nye Uravnenija* 5 (1969), 762-763. (L. Devan) 41 #7927

Samusenko, A. V.

(with Bobkov, V. V.) Multilayer shcemes for the method of integral relations in solving Goursat's problem. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1967, *no.* 2, 58-64. (V. Thomée) 35 #7608

Samušenok, I. N.

Arithmethic characteristic of a class of irrational numbers. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No.* 1 *(Russian), pp.* 9-13. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. 34 #1271

An analytic relation between arithmetic characteristics of irrational numbers. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 164-168. (G. Biriuk) 33 #4011

On the question of estimation of the lower bound for an arithmetic characteristic of irrational numbers. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 160-162. (S. E. Schuur) 35 #5396

San, Kao Heng. See Kao Heng-shan.

Sanada, Hidehiko

(with Tezuka, Yoshikazu; Kasahara, Yoshiro) Optimal design of network with discontinuous linear cost function. *Electron. Commun. Japan* 51 (1968), *no.* 3, 1-10. (From the authors' summary) 43 #6009

Sanada, Satoshi

(with Tokumaru, Hidekatsu; Iwai, Zenta) On amplitude estimation of limit cycles for multivariable relay control systems using Liapunov function. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 272-280. (Authors' summary) 42 #4247

Sanatani, S.

On planar group diagrams. *Math. Ann.* 172 (1967), 203-208. (H. S. M. Coxeter) 35 #6139

Sanchez, Alberto Campos. See Campos Sanchez, Alberto.

Sanchez, Antonio Valle. See Valle Sanchez, Antonio.

Sanchez, Darío

Matrix representations of the Fourier transform. (Spanish) *Bol. Mat.* 2 (1968), 96-103. (G. Doetsch) 40 #637

Sánchez, David A.

Calculus of variations for integrals depending on a convolution product. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 233-254. (W. T. Reid) 29 #6356

On extremals for integrals depending on a convolution product. *J. Math. Anal. Appl.* 11 (1965), 213-216. (W. T. Reid) 31 #6145

Some existence theorems in the calculus of variations. *Pacific J. Math.* 19 (1966), 357-363. (S. Cinquini) 34 #6592

On composite variational problems. *SIAM J. Appl. Math.* 14 (1966), 60-64. (W. T. Reid) 32 #8225

* Ordinary differential equations and stability theory: An introduction. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1968. viii + 164 *pp.* (F. Brauer) 37 #3076

On extremals of composite variational problems. *Proc. Amer. Math. Soc.* 19 (1968), 555-559. (H. Halkin) 37 #4685

Some remarks on iteration and nonlinear ordinary differential equations. *Boll. Un. Mat. Ital.* (4) 2 (1969), 196-199. (K. R. Schneider) 40 #2233

(with Lazer, A. C.) On periodically perturbed conservative systems. *Michigan Math. J.* 16 (1969), 193-200. (K. Kreith) 39 #7212

A note on periodic solutions of Riccati-type equations. *SIAM J. Appl. Math.* 17 (1969), 957-959. (R. A. Struble) 40 #5979

Sánchez, J. M. Martínez. See Martínez Sánchez, J. M.

Sánchez, Jesús Gómez. See Gómez Sánchez, Jesús.

Sánchez, Pablo Barrera. See Barrera Sánchez, Pablo.

Sánchez, Santiago López de Medrano. See López de Medrano, Santiago.

Sánchez Giralda, Tomás

A characterization of the very good categories of Grothendieck. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 30 (1970), 107-108. (J.-E. Bertin) 42 #7746

Sánchez-Mazas, Miguel

* Fundamentos matemáticos de la logica formal. (Spanish) [The mathematical foundations of formal logic] *Universidad Central de Venezuela, Caracas,* 1963. 143 *pp.* (From the author's introduction) 42 #1642

Preliminary ideas concerning an automatic computation of "qualities". (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol.* 1*: Mathematics, Software, pp.* 224-230. *North-Holland, Amsterdam,* 1969. (A. A. Mullin) 42 #1603

Sánchez-Palencia, Enrique

Théorème d'existence pour certains écoulements stationnaires à nombre de Reynolds magnítique nul. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A141-A144. (R. L. Peskin) 34 #2255

Existence et unicité de certains écoulements non stationnaires satsifaisant une propriété de circulation. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A683-A685. (G. Prodi) 39 #5967

Existence des solutions de certains problèmes aux limites en magnétohydrodynamique. (English summary) *J. Mécanique* 7 (1968), 405-426. (J. C. J. Nihoul) 39 #1165

Un type de perturbations singulières dans les problèmes de transmission. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1200-A1202. (Author's summary) 39 #4513

Quelques résultats d'existence et d'unicité pour des écoulements magnétohydrodynamiques non stationnaires. (English summary) *J. Mécanique* 8 (1969), 509-541. (H. Beckert) 41 #4892

Comportement limite d'un problème de transmission à travers une plaque mince et faiblement conductrice. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1026-A1028. (Author's summary) 41 #2230

Solutions périodiques par rapport aux variables d'espace et applications. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1129-A1132. (Author's summary) 42 #4862

Équations aux dérivées partielles dans un type de milieux hétérogènes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1410-A1413. (H. Beckert) 44 #1294

Sanchis, Luis Elpidio

Types in combinatory logic. *Notre Dame J. Formal Logic* 5 (1964), 161-180. (B. Lercher) 34 #5675

A predicative extension of elementary logic. I. *Rev. Un. Mat. Argentina* 22, 123-137 (1965). (E. Mendelson) 32 #7398

A property of combinations in normal form. *Rev. Un. Mat. Argentina* 22, 168-172 (1965). (Bruce Lercher) 34 #52

Functionals defined by recursion. *Notre Dame J. Formal Logic* 8 (1967), 161-174. (W. A. Howard) 39 #1294

Sancho, F. J.

(with Garrido, L. M.; Gascón, F.) General perturbation theory in classical mechanics. (Spanish) *Rev. Acad. Ci. Zaragoza* (2) 15 (1960), *no.* 1, 57-61. (D. Mangeron) 30 #1636

(with Garrido, L. M.) Degree of approximate validity of the adiabatic invariance in quantum mechanics. *Physica* 28 (1962), 553-560. (T. Kato) 29 #5546

Sancho, N. G. F.

On the approximate moment equations of a nonlinear stochastic differential equation. *J. Math. Anal. Appl.* 29 (1970), 384-391. (M. Zakai) 41 #4684

Sancho de San Román, Juan

On an affine width of closed convex sets. (Spanish. French summary) *Colóquio Internacional de Geometría Diferencial (Santiago,* 1963*), pp.* 53-62. *Univ. Santaigo, Santiago,* 1964. (L. A. Santaló) 31 #1591

Polygons of constant affine width. (Spanish) *Fourth Annual Meeting Spanish Mathematicians (Spanish), pp.* 107-108. *Univ. Salamanca, Salamanca,* 1965. (H. T. Croft) 33 #1795

Valuations subordonnées d'une valuation donnée. *Proc. Internat. Colloq. Algebraic Geometry (Madrid,* 1965*) (Spanish), pp.* 143-145. *Inst. Jorge Juan del C. S. I. C.-Internat. Math. Union, Madrid,* 1966. (Y. Kawahara) 33 #5621

On the equivalence of conditions for the existence of an invariant measure on a Klein space. (Spanish) *Sixth Annual Reunion of Spanish Mathematicians (Seville,* 1965*) (Spanish), pp.* 84-86. *Univ. Sevilla, Seville,* 1967. (Editors) 39 #4794

On the existence of relatively invariant measures in a Klein space. (Spanish) *Acta Ci. Compostelana* 4 (1967), 159-164. (L. A. Santaló) 40 #4909

Relatively invariant measures on homogeneous spaces and applications to integral geometry. (Spanish) *Proc. Fifth Annual Reunion of Spanish Mathematicians (Valencia,* 1964*) (Spanish), pp.* 103-108. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1967. (L. A. Santaló) 40 #266

On conditions for the existence of a relatively invariant measure in a Klein space. (Spanish) *Proc. Seventh Annual Reunion of Spanish Mathematicians (Valladolid,* 1966*) (Spanish), pp.* 54-56. *Univ. of Valladolid, Valladolid,* 1967. (J. E. Brothers) 41 #3713

Sur les conditions d'existence de mesure relativement invariante dans un espace de Klein. (French) *In Honor of Prof. Dr. Iñiguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp.* 191-194. *Consejo Sup. Investigación. Ci. Fac. Ci. Zaragoza, Zaragoza,* 1969. (L. W. Green) 40 #2821

Sancho San Román, J. See Sancho de San Román, Juan.

Sandakova, N. N.

(with Delone, B. N.; Ryškov, S. S.) An optimal cubature grid for bilaterally smooth functions of two variables. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1230-1233. (H. Schwerdtfeger) 31 #393

On the theory of ζ-functions of three variables. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 535-538. (H. A. Lauwerier) 36 #5091

Sandberg, Irwin W.

On the $\mathcal{L}_2$-boundedness of solutions of nonlinear functional equations. *Bell System Tech. J.* 43 (1964), 1581-1599. (G. J. Minty) 30 #1416

A frequency-domain condition for the stability of feedback systems containing a single time-varying nonlinear element. *Bell System Tech. J.* 43 (1964), 1601-1608. (R. E. Kalman) 30 #5868

(with Beneš, V. E.) On the properties of nonlinear integral equations that arise in the theory of dynamical systems. *Bell. System Tech. J.* 43 (1964), 2839-2853. (G. J. Minty) 32 #8095

(with Beneš, V. E.) Applications of a theorem of Dubrovskii to the periodic responses of nonlinear systems. *Bell System Tech. J.* 43 (1964), 2855-2872. (G. J. Minty) 32 #8096

On the stability of solutions of linear differential equations with periodic coefficients. *J. Soc. Indust. Appl. Math.* 12 (1964), 487-496. (S. P. Diliberto) 32 #2691

On the solutions of systems of second order differential equations with variable coefficients. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 192-198. (J. Stuelpnagel) 30 #3259

On the boundedness of solutions of nonlinear integral equations. *Bell System Tech. J.* 44 (1965), 439-453. (R. H. Moore) 33 #7806

Some results on the theory of physical systems governed by nonlinear functional equations. *Bell System Tech. J.* 44 (1965), 871-898. (H. Ehrmann) 31 #3811

Some stability results related to those of V. M. Popov. *Bell. System Tech. J.* 44 (1965), 2133-2148. (A. C. Zaanen) 33 #3805

A stability criterion for linear networks containing time-varying capacitors. *IEEE Trans. Circuit Theory* CT-12 (1965), 2-11. (G. Doetsch) 31 #4352

(with Beneš, V. E.) On the response of time-variable nonlinear systems to almost periodic signals. *J. Math. Anal. Appl.* 10 (1965), 245-268. (Authors' summary) 30 #5856

Conditions for the causality of nonlinear operators defined on a function space. *Quart. Appl. Math.* 23 (1965), 87-91. (C. Dolph) 32 #6268

A note on the application of the contraction-mapping fixed point theorem to a class of nonlinear functional equations. *SIAM Rev.* 7 (1965), 199-204. (A. C. Zaanen) 31 #6142

A note on a type of optimization problem that arises in communication theory. *Bell System Tech. J.* 45 (1966), 761-764. (R. F. Drenick) 33 #7180

On the sensitivity of channel capacity for the Gaussian bandlimited channel. *Bell System Tech. J.* 45 (1966), 1475-1492. (F. Jelinek) 34 #7287

On generalizations and extensions of the Popov criterion. *IEEE Trans. Circuit Theory* CT-13 (1966), 117-118. (E. Ar) 40 #6990

Two theorems on the accuracy of numerical solutions of systems of ordinary differential equations. *Bell System Tech. J.* 46 (1967), 1243-1266. (H. H. Goldstine) 35 #7583

Some properties of a classic numerical integration formula. *Bell System Tech. J.* 46 (1967), 2061-2080. (R. Nicolovius) 36 #3510

(with So, H. C.) A tow-sets-of-eigenvalues approach to the computer analysis of linear systems. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp.* 332-361. *Univ. of Illinois, Urbana, Ill.*, 1968. (Editors) 41 #8066

(with Shichman, H.) Numerical integration of systems of stiff nonlinear differential equations. *Bell System Tech. J.* 47 (1968), 511-527. (R. W. Hamming) 38 #1836

A theorem concerning limit cycles in digital filters. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1969), pp.* 63-68. *Univ. of Illinois, Urbana, Ill.*, 1969. (Author's summary) 41 #9657

(with Willson, A. N., Jr.) Some theorems on properties of DC equations of nonlinear networks. *Bell System Tech. J.* 48 (1969), 1-34. (Y. H. Ku) 39 #2534

Some theorems on the dynamic response of nonlinear transistor networks. *Bell System Tech. J.* 48 (1969), 35-54. (G. Zames) 38 #6860

On conditions under which it is possible to synchronize digital transmission systems. *Bell System Tech. J.* 48 (1969), 1999-2022. (J. Kato) 40 #4569

(with So, Hing C.) A two-sets-of-eigenvalues approach to the computer analysis of linear systems. *IEEE Trans. Circuit Theory* CT-16 (1969), 509-517. (G. Blanch) 40 #8243

Theorems on the analysis of nonlinear transistor networks. *Bell System Tech. J.* 49 (1970), 95-114. (G. Zames) 41 #5110

Necessary and sufficient conditions for the global invertibility of certain nonlinear operators that arise in the analysis of networks. *IEEE Trans. Circuit Theory* CT-18 (1971), 260-263. (Jagdish Chandra) 42 #9086

Sandberg, V. Ju.

Metrization of Lipschitz spaces. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 1018-1021. (J. G. Ceder) 29 #588

(with Efremovič, V. A.; Mordkovič, A. G.) Correct spaces. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 1254-1257. (D. V. Thampuran) 35 #977

A code problem. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 2 (1968), 120-123. (C. Reischer) 43 #8441

Sandee, J.

(with Heesterman, A. R. G.) Special simplex algorithm for linked problems. *Management Sci.* 11 (1964/65), 420-428. (Authors' summary) 30 #3757

Sandelius, Martin

A graphical version to Tukey's confidence interval for slippage. *Technometrics* 10 (1968), 193-194. 36 #4689

von Sanden, Horst

Eine Bemerkung zur numerisch-tabellarischen Integration gewöhnlicher Differentialgleichungen nach Runge-Kutta. *Z. Angew. Math. Mech.* 43 (1963), 561. (G. Dahlquist) 29 #4202

Sander, G.

Bornes supérieures et inférieures dans l'analyse matricielle des plaques en flexion-torsion. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 456-494. (H. J. Weinitschke) 30 #764

Sanders, B. L.

Decompositions and reflexivity in Banach spaces. *Proc. Amer. Math. Soc.* 16 (1965), 204-208. (L. de Branges) 30 #2318

On the existence of [Schauder] decompositions in Banach spaces. *Proc. Amer. Math. Soc.* 16 (1965), 987-990. (R. E. Edwards) 31 #5065

Sanders, J. Lyell, Jr.

A nonlinear decomposition principle. *Operations Res.* 13 (1965), 266-271. (R. W. Cottle) 31 #1112

(with Greif, Robert) The effect of a stringer on the stress in a cracked sheet. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 59-66. (W. T. Koiter) 30 #5546

Sanders, P. R.

The central automorphisms of a finite group. *J. London Math. Soc.* 44 (1969), 225-228. (Fletcher Gross) 40 #1462

Sanders, William A.

(with Hirschfelder, Joseph O.) Approximation of expectation values. *J. Chem. Phys.* 43 (1965), S204-S205. (A. Dalgarno) 32 #5241

Sanderson, B. J.

Immersions and embeddings of prohective spaces. *Proc. London Math. Soc.* (3) 14 (1964), 137-153. (D. B. A. Epstein) 29 #2814

(with Rourke, C. P.) Block bundles. *Bull. Amer. Math. Soc.* 72 (1966), 1036-1039. (N. H. Kuiper) 35 #4930b

(with Hsiang, W.-C.) Twist-spinning spheres in spheres. *Illinois J. Math.* 9 (1965), 651-659. (A. Haefliger) 32 #6474

(with Rourke, C. P.) An embedding without a normal microbundle. *Invent. Math.* 3 (1967), 293-299. (I. M. James) 36 #5954

(with Rourke, C. P.) Block bundles. I. *Ann. of Math.* (2) 87 (1968), 1-28. (J. Kister) 37 #2234a

(with Rourke, C. P.) Block bundles. II. Transversality. *Ann. of Math.* (2) 87 (1968), 256-278. (J. Kister) 37 #2234b

(with Rourke, C. P.) Block bundles. III. Homotopy theory. *Ann. of Math.* (2) 87 (1968), 431-483. (J. Kister) 38 #729

(with Rourke, C. P.) Some results on topological neighbourhoods. *Bull. Amer. Math. Soc.* 76 (1970), 1070-1072. (B. G. Casler) 42 #6833

(with Rourke, C. P.) Decompositions and the relative tubular neighbourhood conjecture. *Topology* 9 (1970), 225-229. (K. W. Kwun) 41 #6224

Sanderson, D. E.

(with Hildebrand, S. K.) Connectivity functions and retracts. *Fund. Math.* 57 (1965), 237-245. (Haskell Cohen) 32 #1679

(with Sims, B. T.) A characterization and generalization of semi-metrizability. *Amer. Math. Monthly* 73 (1966), 361-365. (R. W. Bagley) 33 #698

Relations among some basic properties of non-continuous functions. *Duke Math. J.* 35 (1968), 407-414. (S. A. Naimpally) 37 #890

An infinite-dimensional Schoenflies theorem. *Trans. Amer. Math. Soc.* 148 (1970), 33-39. (Morton Brown) 41 #4586

Sanderson, Donovan F.

A generalization of divisibility and injectivity in modules. *Canad. Math. Bull* 8 (1965), 505-513. (Y. Utumi) 32 #4161

Sanderson, J. G.

A basis for a theory of programming languages. *Austral. Comput. J.* 1 (1967/69), 21-27. (Author's summary) 39 #6553

Sandewall, Erik J.

A planning problem solver based on look-ahead in stochastic game trees. *J. Assoc. Comput. Mach.* 16 (1969), 364-382. (Author's summary) 39 #3832

A set-oriented property-structure representation for binary relations *SPB*. *Machine Intelligence, 5, pp.* 237-252. *American Elsevier, New York*, 1970. (S. Amarel) 44 #2382

Sandhas, W.

(with Kupsch, J.) Møller operators for scattering on singular potentials. *Comm. Math. Phys.* 2 (1966), 147-154. (V. de Alfaro) 33 #3619

Sandik, M. D.

On units in n-loops. (Russian) *Studies in Algebra and Math. Anal. (Russian), pp.* 140-146. *Izdat. "Karta Moldovenjaske", Kishinev,* 1965. (S. Stein) 34 #274

Uniqueness of the representation of n-quasigroups. (Russian) *Studies in General Algebra (Sem.) (Russian), pp.* 123-135. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. (K. Drbohlav) 34 #5731

Completely reducible n-quasigroups. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1965, *no.* 7, 55-67. (S. Stein) 33 #2752

Homomorphisms in n-loops. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 117-119. *Tatru. Gos. Univ., Tartu,* 1966. (M. Kolibiar) 35 #1692

(with Belousov, V. D.) N-ary quasi-groups and loops. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 31-54. (M. Hosszú) 34 #4403

Homomorphisms of n-loops. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 1, 83-100. (K. Drbohlav) 37 #2891

Distributivity in n-quasigroups. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 2(8), 161-169. (H. Pflugfelder) 41 #1910

(with Sokolov, E. T.) Totally symmetric n-quasigroups. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 2(8), 170-182. (H. Pflugfelder) 40 #7378

(with Belousov, V. D.) Dicker's functional equation. (Russian) *Studies in General Algebra, No. 1 (Russian), pp.* 36-41. *Kišinev. Gos. Univ., Kishinev,* 1968. (M. Hosszú) 42 #3211

Action of an n-quasigroup on a set. (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 110-115. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (G. Čupona) 43 #3380

(with Sokolov, E. I.) Inversion matrices and totally symmetric n-quasigroups. (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 115-122. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (G. Čupona) 43 #3381

Sandler, Reuben

(with Oehmke, Robert H.) The collineation groups of division ring planes. I. Jordan division algebras. *J. Reine Angew. Math.* 216 (1964), 67-87. (G. B. Seligman) 29 #3513

Some theorems on the automorphism groups of planar ternary rings. *Proc. Amer. Math. Soc.* 15 (1964), 984-987. (P. Dembowski) 31 #5143

(with Oehmke, R.) The collineation groups of division ring planes. II. Jordan division rings. *Pacific J. Math.* 15 (1965), 259-265. (T. A. Springer) 31 #4817

The collineation groups of free planes. II. A presentation for the group G_2. *Proc. Amer. Math. Soc.* 16 (1965), 181-186. (W. Moser) 31 #662

Pseudo planes and pseudo ternaries. *J. Algebra* 4 (1966), 300-316. (P. Dembowski) 33 #7929

(with Foulser, David A.) Certain properties of orbits under collineation groups. *J. Combinatorial Theory* 2 (1967), 546-570. (P. Dembowski) 35 #6578

* (with Albert, A. Adrian) An introduction to finite projective planes. *Holt, Rinehart and Winston, New York-Toronto, Ont.-London,* 1968. viii + 98 pp. (F. Wilke) 37 #3435

On finite collineation groups of F_5. *Canad. J. Math.* 21 (1969), 217-221. (M. V. D. Burmester) 39 #3388

On free extensions of rank 1. *Math. Z.* 111 (1969), 233-248. (T. G. Ostrom) 40 #1883

On some questions of O. Iden. *Math. Z.* 111 (1969), 255-256. (T. G. Ostrom) 39 #7501

Sandler, Stanley I.

(with Dahler, John S.) Nonstationary diffusion. *Phys. Fluids* 7 (1964), 1743-1746. (Authors' summary) 29 #6787

(with Dahler, John S.) Kinetic theory of loaded spheres. II. *J. Chem. Phys.* 43 (1965), 1750-1759. (N. F. Sather) 32 #3735

Sandomierski, Francis L.

Semisimple maximal quotient rings. *Trans. Amer. Math. Soc.* 128 (1967), 112-120. (Y. Utumi) 35 #5473

(with Cateforis, Vasily C.) The singular submodule splits off. *J. Algebra* 10 (1968), 149-165. (R. S. Pierce) 39 #2805

Nonsingular rings. *Proc. Amer. Math. Soc.* 19 (1968), 225-230. (J. Knopfmacher) 36 #2648

(with Cateforis, V. C.) On commutative rings over which the singular submodule is a direct summand for every module. *Pacific J. Math.* 31 (1969), 289-292. (C. Margaglio) 40 #2665

On semiperfect and perfect rings. *Proc. Amer. Math. Soc.* 21 (1969), 205-207. (A. Zaks) 38 #5848

A note on the global dimension of subrings. *Proc. Amer. Math. Soc.* 23 (1969), 478-480. (B. L. Osofsky) 39 #6930

Some examples of right self-injective rings which are not left self-injective. *Proc. Amer. Math. Soc.* 26 (1970), 244-245. (P. D. Chawathé) 42 #324

(with Cateforis, Vasily C.) On modules of singular submodule zero. *Canad. J. Math.* 23 (1971), 345-354. (W. S. Martindale, III) 44 #4034

Modules over the endomorphism ring of a finitely generated projective module. *Proc. Amer. Math. Soc.* 31 (1972), 27-31. (G. Renault) 44 #5335

Sander, George N.

(with Primrose, E. J. F.; Freudenstein, F.) Finite Burmester theory in plane kinematics. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 683-693. (O. Bottema) 30 #4405

On the existence of a cycloidal Burmester theory in planar kinematics. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 694-699. (B. Roth) 30 #744

Sándor, I.

An analogy of spaces with constant curvature in centroaffine space. (Russian) *Mat. Vesnik* 4(19) (1967), 247-252. (A. Urban) 36 #5830

Sandor, Stefan

La methode des droites polaires pour la résolution de certains problèmes aux limites pour les équations du type elliptique. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 107-141. (W. Sibagaki) 35 #1974

Une formule générale de quadrature à noeuds simples et quelques formules nouvelles. *Bull. Math. Soc. Sci. Math. R. S. Roumaine* 10(58) (1966), 151-167 (1967). (F. Stenger) 36 #6147

Sandoval, René W.

Partial differential equations with non-homogeneous boundary conditions. *Rev. Colombiana Mat.* 3 (1969), 1-21. (A. R. Gourlay) 39 #4532

Sandovici, Profira

m-dimensional surfaces of a Euclidean space for which the first normal space is unidimensional. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 1, 23-30. (Author's summary) 32 #2985

(with Enghiş, P.; Ţarină, M.) Group of motions of spaces V_4 which admit two fields of isotropic parallel vectors. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 2, 51-57. (From the authors' summary) 35 #3600

(with Enghiş, P.; Ţarină, M.) On the groups of motions of spaces V_{2N} which admit fields of parallel null vectors. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 12 (1967), *no.* 1, 7-13. (R. Roşca) 36 #835

(with Enghiş, P.; Ţarină, M.) Spaces V_n with recurrent projective curvature. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 1, 17-22. (Y. Tashiro) 40 #6444

Sandrakova, E. V.

Imbedding of zero-dimensional compacta in E^3. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 98-114. (R. Bennett) 44 #2217

Sandri, Guido

The foundations of nonequilibrium statistical mechanics. I. *Ann. Physics* 24 (1963), 332-379. 32 #8910

The foundations of nonequilibrium statistical mechanics. II. *Ann. Physics* 24 (1963), 380-418. 32 #8911

Global master equation. I. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 985-990. (N. L. Balazs) 29 #4520

A new method of expansion in mathematical physics. I. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 67-93. (K. Imre) 33 #1994

Global master equation. II. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 309-321. (K. Imre) 33 #2319

Uniformization of asymptotic expansions. *Nonlinear Partial Differential Equations: A Symposium on Methods of Solution (Newark, Del., 1965), pp.* 259-277. *Academic Press, New York,* 1967. (L. Berg) 36 #503

(with Ramnath, R. V.) A generalized multiple scales approach to a class of linear differential equations. *J. Math. Anal. Appl.* 28 (1969), 339-364. (H. Hochstadt) 39 #7226

Sandru, Nicolae

On the action of loads concentrated in the interior of infinite elastic plane domains. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 229-242. (M. Mişicu) 30 #5548

On the action of loads concentrated in the interior of the elastic half-plane with fixed boundary. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 453-463. (O. Gürel) 31 #6422

A method of solving a two-dimensional problem in the theory of elasticity in the case of arbitrary mass forces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 67-73. (M. Mişicu) 31 #4242

On the action of a force concentrated in an unbounded elastic space. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 1019-1021. (M. Mişicu) 31 #2869

On concentrated interior loads in an elastic half-space with fixed edges. (Russian) *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 5(53) (1961), 205-224 (1964). (M. Sokołowski) 32 #650

On the action of charges concentrated in the interior of the elastic plane with non-homogeneous discontinuity. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 13 (1964), *no.* 2, 25-36. (Author's summary) 32 #1953

On the complex representation of the solution of plane elastodynamics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 14 (1965), *no.* 1, 39-45. (N. Zitron) 35 #2541

Le théorème de réciprocité dans l'élasticité asymétrique (cas dynamique). *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 78-81. (M. Mişicu) 31 #4235

Le théorème de réciporcité du type de Betti dans l'élasticité asymétrique. *C. R. Acad. Sci. Paris* 260 (1965), 3565-3567. (V. M. Papadopoulos) 30 #5542

Şandru, Petru

Topological methods in the study of schemes with *m*-position contacts. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 927-932. (I. Tomescu (Zbl 162, 28)) 40 #4009

Sands, Arthur D.

Factorization of cyclic groups. *Proc. Collop. Abelian Groups (Tihany,* 1963*), pp.* 139-146. *Akadémiai Kiado, Budapest,* 1964. (D. L. Barnett) 30 #3915

Primitive rings of infinite matrices. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 47-53. (A. Rosenberg) 29 5858

On radicals of infinite matrix rings. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 195-203. (E. M. Patterson) 39 #6916

The radical of a certain infinite matrix ring. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 143-145. (E. M. Patterson) 41 #1782

Sands, Matthew

* (with Feynman, Richard P.; Leighton, Robert B.) The Feynman lectures on physics. Vol. 1: Mainly mechanics, radiation, and heat. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1963. xii + 513 *pp. (not consecutively paged)* (T. J. M. Boyd) 35 #3942

* (with Feynman, Richard P.; Leighton, Robert B.) The Feynman lectures on physics. Vol. 2: Mainly electromagnetism and matter. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. xii + 569 *pp. (not consecutively paged)* (T. J. M. Boyd) 35 #3943

* (with Feynman, Richard P.; Leighton, Robert B.) The Feynman lectures on physics. Vol. 3: Quantum mechanics. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1965. x + 365 *pp. (not consecutively paged)* (T. J. M. Boyd) 35 #3944

Sandu, D.

(with Simovici, D.) Observations on the correlation between unate functions and threshold logic functions. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 229-239. (M. Dragomirescu) 41 #5111

Sandved, Else

A principle for conditioning on an ancillary statistic. *Skand. Aktuarietidskr.* 1966, 39-47 (1967). (P. J. Huber) 36 #7254

Ancillary statistics and estimation of the loss in estimation problems. *Ann. Math. Statist.* 39 (1968), 1756-1758. (R. J. Buehler) 37 #7034

Sandžieva, K. B.

A bound for the solution of a second-order equation. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 4, 3-7. (P. Ungar) 30 #2217

Sanfeld, Albert

Répartition des pressions dans un fluide chargé et polarisé. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 50 (1964), 339-357. (Author's summary) 29 #4552

(with Defay, R.) Les densités d'énergie libre et d'entropie et la pression dans un champ électrostatique. *Physica* 30 (1964), 2232-2252. (Authors' summary) 31 #5604

Sang, Rim Dock See Rim, Dock Sang.

Sang, Seup Eum See Eum, Sang-seup.

Sanginov, A.

A boundary value problem in function theory. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 7, 3-6. (J. F. Heyda) 36 #401

On the problem of the oblique derivative for a system of equations of composite type. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 7, 8-12. (R. A. Kordzadze) 42 #3430

A certain boundary value problem with an oblique derivative for a system of equations of composite type. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik SSR* 12 (1969), *no.* 8, 8-12. (L. von Wolfersdorf) 44 #7142

Sangren, Ward C.

(with Roos, Bernard W.) Three spectral theorems for a pair of singular first-order differential equations. *Pacific J. Math.* 12 (1962), 1047-1055. (Robert McKelvey) 32 #7839

San Ha, Om. See Om San-Ha.

Sani, Robert

On the non-existence of subcritical instabilities in fluid layers heated from below. *J. Fluid Mech.* 20 (1964), 315-319. (E. J. Watson) 30 #3656

Note on flow instability in heated ducts. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 381-387. (L. A. Segel) 31 #6468

(with DiPrima, R. C.) The convergence of the Galerkin method for the Taylor-Dean stability problem. *Quart. Appl. Math.* 23 (1965), 183-187. (L. M. Hocking) 31 #6465

An extension and cenvergence proof of an approximate method due to Pellew and Southwell. *Z. Angew. Math. Mech.* 48 (1968), 65-66. (D. Elliott) 38 #870

Šanidze, Z. G.

(with Gamkrelidze, L. I.) A certain method of finding stationary oscillations. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 63 (1971), 137-140. (P. Sagirow) 44 #5144

Sanielevici, Simion

* Opera matematică. (Romanian) (Mathematical works) *Editura Academiei Republicii Socialiste România, Bucharest,* 1968. 296 *pp.* (1 *plate*) (Editors) 37 #23

Sanikidze, Dž. G.

Approximate calculation of singular integrals. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 40 (1965), 513-520. (M. Zlámal) 36 #6148

On approximate calculation of some improper integrals. (Georgian. Russian summary) *Thbilis, Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 110 (1965), 255-261. (From the author's summary) 33 #6832

Exact estimates of approximation of quadrature formulas in the integration of unbounded functions. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 45 (1967), 297-304. (E. L. Albasiny) 34 #8644

On the question of an error estimate for quadrature formulas for certain singular integrals. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 50 (1968), 525-530. (L. Berg) 37 #6660

The convergence of certain quadrature processes. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 52 (1968), 577-581. (K. Frankowski) 40 #6772

The divergence of interpolation processes. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 278-279. (J. Szabados) 39 #7329

Remainder estimates of interpolation, and convergence of interpolation processes. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 10 (89), 81-89. (J. Szabados) 41 #2258

On complicated quadrature formulae for singular integrals. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 53 (1969), 33-36. (A. H. Stroud) 40 #5131

The order of approximation of certain singular operators by quadrature sums. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 4, 371-384. (F. Pecka) 44 #1219

The approximate computation of curvilinear singular integrals. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Moḫsen. Anotacie. Vyp.* 3 (1970), 15-17. (A. Erdélyi) 43 #7840

The convergence of certain interpolation processes. (Russian) *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom.* 9 (1970), *no.* 3, 12-21. (J. Szabados) 44 #688

Quadrature formulae, for singular integrals, that have the highest algebraic degree of accuracy. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 281-284. (Author's summary) 42 #5450

The approximate computation of singular integrals with summable density by the method of mechanical quadratures. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 106-114. (P. Zinterhof) 41 #7846

The convergence of a quadrature process for certain singular integrals. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 189-196. (P. Zinterhof) 42 #7072

Šanin, A. A.

Determination of constants in the Brun-Šnirel′man method. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 261-265. (S. Chowla) 33 #2617

Šanin, N. A.

Concerning the constructive interpretation of auxiliary formulae. I. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 348-379. (G. Asser) 36 #1324

(with Nagornyĭ, N. M.) Andreĭ Andreevič Markov. (On his sixieth birthday). (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 3(117), 207-223. (1 *plate*) (Editors) 31 #19

* (with Davydov, G. V.; Maslov, S. Ju.; Minc, G. E.; Orevkov, V. P.; Slisenko, A. O.) Алгорифм машинного поиска естественного логического вывода в исчислении высказываний. (Russian) [An algorithm for a machine scan of a natural logical deduction in a propositional calculus] Academy of Sciences of the USSR. V. A. Steklov Mathematical Institute. Leningrad Department. *Izdat. "Nauka", Moscow,* 1965. 39 *pp.* 33 #5405

* Constructive real numbers and constructive function spaces. Translated from the Russian by E. Mendelson. Translations of Mathematical Monographs, Vol. 21. *American Mathematical Society, Providence, R. I.,* 1968. iv + 325 *pp.* (Editors) 37 #5082

(with Ceĭtin, G. S.; Zaslavskiĭ, I. D.) Peculiarities of constructive mathematical analysis. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 253-261. *Izdat. "Mir", Moscow,* 1968. (E. M. Fels) 38 #1000

(See also Proceedings of the Steklov Institute of Mathematics, 41 #1539)

Sanini, Aristide

Spazi osculatori a varietà di curve algebriche piane. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 100 (1965/66), 389-397. (P. Du Val) 33 #6493

Sugli E^3 piani di una trasformazione puntuale tra spazi proiettivi. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 100 (1965/66), 755-764. (D. Gallarati) 34 #8299

Rette linearizzanti e loro applicazioni alle trasformazioni puntuali di 2^a e di 3^a specie fra piani. (English summary) *Riv. Mat. Univ. Parma* (2) 6 (1965), 147-162. (P. Drăgilă) 36 #3245

Sopra un tipo di varietà luogo di piani. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 238-242. (M. Decuyper) 34 #3466

Su una classe di varietà V_3 luogo di ∞^1 piani. *Rend. Mat. e Appl.* (5) 25 (1966), 411-426. (D. Gallarati) 36 #3246

Applicabilità proiettiva di calotte superficiali. *Univ. e Politec. Torino Rend. Sem. Mat.* 26 (1966/67), 93-109. (E. Bompiani) 37 #843

San Juan, Ricardo

* El problema de Watson y las clases semianalíticas. (Spanish) [The problem of Watson and semianalytic classes] *Consejo Superior de Investigaciones Científicas, Madrid,* 1955. (R. P. Boas, Jr.) 34 #2903a

* Complementos a la memoria ***El problema de Watson y las clases semianalíticas.*** (Spanish) [Complements to the memoir ***The problem of Watson and semianalytic classes***] *Consejo Superior de Investigaciones Científicas, Madrid,* 1955. 13 *pp.* (R. P. Boas, Jr.) 34 #2903b

The uniqueness problem in the theory of numerical divergent series and formal laws of calculus. I. *Collect. Math.* 14 (1962), 235-255. (G. M. Petersen) 29 #6212

The uniqueness problem in the theory of numerical divergent series and formal laws of calculus. II. *Collect. Math.* 15 (1963), 23-70. (G. M. Petersen) 29 #6213

Corrigenda to: "The uniqueness problem in the theory of numerical divergent series and formal laws of calculus. II." *Collect. Math.* 15 (1963), 293. (Editors) 31 #1493

A question of functional analysis. (Spanish) *Fourth Annual Meeting Spanish Mathematicians (Spanish), pp.* 11-13. *Univ. Salamanca, Salamanca,* 1965. (M. E. Shanks) 33 #4888

Semianalytic classes with *W*-convex bounds. (Spanish. French summary) *Rev. Acad. Ci. Madrid* 60 (1966), 449-545. (R. P. Boas, Jr.) 35 #5642

Completeness of the space of holomorphic functions having asymptotic development. (Spanish) *Proc. Fifth Annual Reunion of Spanish Mathematicians (Valencia,* 1964*) (Spanish), pp.* 42-47. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1967. (A. Erdélyi) 39 #7120

Asymptotic expansions of mappings from a topological into a Banach space. (Spanish. French summary) *Proc. Seventh Annual Reunion of Spanish Mathematicians (Valladolid,* 1966*) (Spanish), pp.* 29-32. *Univ. of Valladolid, Valladolid,* 1967. (From the author's summary) 40 #6236

Clarifications and simplifications to the memoir: "The problem of Watson and semi-analytic classes". (Spanish) *Rev. Acad. Ci. Madrid* 61 (1967), 11-13. (R. P. Boas, Jr.) 37 #1567

Une décomposition en somme de fonctions semianalytiques. *Rev. Acad. Ci. Madrid* 61 (1967), 433-469. (R. P. Boas, Jr.) 37 #443

The problem of uniqueness in the theory of numerical and functional divergent series. (Spanish) *In Honor of Prof. Dr. Iñíguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp.* 181-190. *Consejo Sup. Investigación. Ci. Fac. Ci. Zaragoza, Zaragoza,* 1969. (E. P. Merkes) 40 #4649

(See also Ríos, Sixto, 42 #5768)

San Juan Llosá, Ricardo. See San Juan, Ricardo.

Sankar, P. B. K.

An inversion theorem for the Anger transform. *Gaṇita* 20 (1969), *no.* 1, 75-78. (C. Fox) 42 #3501

Sankar, R.

(with Fox, L.) Boundary singularities in linear elliptic differential equations. *J. Inst. Math. Appl.* 5 (1969), 340-350. (J. H. Bramble) 42 #1354

Sankaran, Munuswamy

On an analogue of Bhattacharya bound. *Biometrika* 51 (1964), 268-270. (A. C. Cohen) 31 #5265

Sankaran, N.

Group embedding and duality in semigroups. *Publ. Math. Debrecen* 10 (1963), 63-68. (T. Tamura) 29 #4825

Classification of totally ordered abelian groups. *J. Indian Math. Soc. (N.S.)* 29 (1965), 9-29. (G. Grätzer) 32 #5748

A theorem on Henselian rings. *Canad. Math. Bull.* 11 (1968), 275-277. (S. Greco) 37 #6281

(with Venkataraman, R.) Existence of ultracomplete immediate extensions for normed modules. *J. Algebra* 15 (1970), 429-442. (C. Lemaire) 41 #6835

Sankaran, P.

(with Bapeswara Rao, V. V.; Sankara Rao, K.; Murti, V. G. K.) Planar graphs and circuits. *Matrix Tensor Quart.* 18 (1968), 88-91. (Leonard Weiss) 38 #1032

Sankaran, S.

Continuous sums of measures and continuous spectra. *Proc. Glasgow Math. Assoc.* 7, 9-14 (1965). (J. Feldman) 31 #1543

Heisenberg's commutation relations and Pontryagin's duality theorem. *Math. Z.* 98 (1967), 387-390. (M. Nakamura) 36 #5618

Representations of semi direct products of groups. *Compositio Math.* 22 (1970), 215-225. (K. A. Ross) 42 #772

Sankaran, Y.

On the average order of the arithmetical function *L(n)*. *Math. Student* 35 (1967), 61-63 (1969). (N. G. de Bruijn) 40 #5562

Sankaranarayanan, A.

(with Mathews, P. M.) Covariant spin operator for a Kemmer particle. *Nuclear Phys.* 60 (1964), 65-69. (F. Calogero) 31 #5510

On the transformation of relativistic single-particle Hamiltonians to odd and even forms. *Nuovo Cimento* (10) 32 (1964), 1715-1720. (G. Barton) 29 #3178

(with Mathews, P. M.) An extreme-relativistic representation for Kemmer particles. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 101-105. (A. H. Klotz) 32 #8713; errata, 33, p. 1601.

Extreme-relativistic transformations of relativistic wave equations. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 436-441. (A. H. Klotz) 32 #8714

Connection between Garrido-Pascual and Lorentz transformations. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 442-449. (A. H. Klotz) 32 #8715

Canonical form of the wave equations for massless particles and their observables. *Phys. Rev.* (2) 134 (1964), B424-B427. (S. Bludman) 31 #3035

Spin operators in the Kemmer theory. *Phys. Rev.* (2) 136 (1964), B719-B722. (H. Umezawa) 32 #775

(with Mathews, P. M.) Observables of particles of spins 0 and 1. *Progr. Theoret. Phys.* 32 (1964), 159-165. (R. H. Good) 31 #4435

(with Good, R. H., Jr.) Spin-one wave equation. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 1303-1315. (G. R. Allcock) 33 #5237

Covariant polarization theory of spin-one particles. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 889-906. (Roland Good, Jr.) 33 #2132

An extension theorem for inhomogeneous rotation groups. *Nuovo Cimento* (10) 38 (1965), 1441-1443. (Harry E. Moses) 32 #8857

(with Good, R. H., Jr.) Position operators in relativistic single-particle theories. *Phys. Rev.* (2) 140 (1965), B509-B513. (F. Rohrlich) 32 #8720

Extension theorem and Majorana representation. (Italian and Russian summaries) *Nuovo Cimento A* (10) 52 (1967), 91-106. (Author's summary) 36 #1157

Extension theorem and representations. *J. Mathematical Phys.* 9 (1968), 611-620. (J.-P. Antoine) 37 #7147

Sankaranarayanan, G.

On some asymptotic properties of Markoff processes. *J. Indian Math. Soc. (N.S.)* 28 (1964), 175-186 (1965). (D. A. Darling) 32 #4745

Theory of particle counters. *Math. Student* 32 (1964), 29-38. (L. Takács) 32 #1780

(with Suyambulingom, C.) Some renewal theorems concerning a sequence of correlated random variables. *Pacific J. Math.* 30 (1969), 785-803. (M. M. Siddiqui) 40 #2169

(with Suyambulingom, C.) Correction to: "Some renewal theorems concerning a sequence of correlated random variables". *Pacific J. Math.* 35 (1970), 805. (Editors) 42 #8579

Sankaranarayanan, R.

(with Venkatraman, B.) Collapse loads of orthotropic cylindrical shells under radial pressures. *J. Franklin Inst.* 278 (1964), 183-194. (Authors' summary) 29 #3046

Sankara Rao, K.

(with Bapeswara Rao, V. V.; Sankaran, P.; Murti, V. G. K.) Planar graphs and circuits. *Matrix Tensor Quart.* 18 (1968), 88-91. (Leonard Weiss) 38 #1032

Sankoff, David

(with Dawson, D. A.) A packing problem for measurable sets. } *Canad. J. Math.* 19 (1967), 749-756. (M. Skalsky) 35 #6167

Duration of detectible synchrony in a binary branching process. *Bioletrika* 58 (1971), 77-81. (P. E. Ney) 43 #4133

Branching processes with terminal types. Application to context-free grammars. *J. Appl. Probability* 8 (1971), 233-240. 44 #3410

San Miguel, M.

* Funciones aleatorias periódicas. (Spanish. English summary) [Periodic random functions] Publicaciones del Seminario Matemático García de Galdeano, 11. *Consejo Superior de Investigaciones Científicas, Facultad de Ciencias de Zaragoza, Zaragoza,* 1971. 71 *pp.* (Z. Šidák) 44 #6061

(The sign } indicates an entry in the supplement.)

Sannīkov, S. S.

(with Dubovoĭ, È. I.) On an allowed model in quantum electrodynamics. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1345-1353 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 908-913. (G. Källén) 32 #3552

Representations of the rotation group with complex spin. *Jadernaja Fiz.* 2 (1965), 570-581 *(Russian); translated as Soviet J. Nuclear Phys.* 2 (1966), 407-415. (L. O'Raifeartaigh) 34 #1050

Non-compact symmetry group of a quantum oscillator. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 1913-1922 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 1306-1311. (J. S. Dowker) 34 #8760

Semi-spineurs et représentations 4-formes du groupe des rotations. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 3-4, 121-125. (A. Kihlberg) 36 #3919

Expansion of the direct product of representations of the discrete unitary series D_λ^+ of the Lorentz group $\mathscr{L}_3$. *Dokl. Akad. Nauk. SSSR* 171 (1966), 1058-1060 *(Russian); translated as Soviet Physics Dokl.* 11 (1967), 1045-1047. (L. O'Raifeartaigh) 35 #5551

Complex momenta and the representations of the Poincaré group. *Jadernaja Fiz.* 4 (1966), 587-596 *(Russian); translated as Soviet J. Nuclear Phys.* 4 (1967), 416-422. (Author's summary) 35 #1290

Representation of the rotation group by generalized functions. (Ukrainian) *Ukraïn. Fīz. Ž.* 11 (1966), 106-107. 32 #8858

Representation of the Lorentz group with complex spin. (Ukrainian) *Ukraïn. Fīz. Ž.* 11 (1966), 110-111. 32 #8859

* О римановых поверхностях аналитических групп Ли и пространствах функций на них. (Russian. English summary) [The Riemann surfaces of analytic Lie groups, and spaces of functions on them] *Akad. Nauk Ukrain. SSR Inst. Teoret. Fiz., Kiev,* 1967. 10 *pp.* (M. E. Mayer) 41 #5548

Extraction of the square root from anticommutative spinors. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 37-39. (M. E. Mayer) 35 #306

Representations of a continuous group by unbounded operators. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 1285-1288. (I. Kovács) 37 #343

Infinite-dimensional representations of the rotation group. *Jadernaja Fiz.* 6 (1967), 788-805 *(Russian); translated as Soviet J. Nuclear Phys.* 6 (1967), 1084-1093. (R. Cirelli) 39 #2413

New representations of the Lie algebra of the rotation group R_3. *Jadernaja Fiz.* 6 (1967), 1294-1307 *(Russian); translated as Soviet J. Nuclear Phys.* 6 (1968), 939-948. (A. Corciovei) 39 #1177

Spinor representations on a sphere. *Nuclear Phys.* 87 (1967), 834-835. (Author's summary) 34 #7719

Four-valued representations of the three-dimensional rotation group in Euclidean space. *Nuclear Phys.* B1 (1967), 594-596. (R. L. Ingraham) 35 #4339

The dynamical group and SU*(n)*-symmetry of an oscillator. (Russian) *Ukraïn. Fīz. Ž.* 12 (1967), 339-341. (M. E. Mayer) 35 #1291

Representation of the cone group and quantization of an oscillator. (Russian) *Ukraïn. Fīz. Ž.* 12 (1967), 341-342. (M. E. Mayer) 35 #1292

On the structure of the images of the rotation group with a complex weight. (Russian) *Ukraïn. Fīz. Ž.* 12 (1967), 342-344. (M. E. Mayer) 35 #2575

On a generalization of linear representations of a continuous group. (Russian. Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 14(18) (1968), *fasc.* 3-4, 143-147. (I. Kovács) 41 #1930

A construction of multivalued representations of the rotation group by unbounded operators. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 246-251. (M. E. Mayer) 37 #1523

The group of 1-chains of a topological group. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 297-300. (I. Kovács) 44 #4148

Sannino, Mario

(with Mamola, Giovanni) Un metodo di risoluzione dell'equazione di Lienard dei circuiti oscillatori. *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 28 (1967/68), *fasc.* 2, 337-355 (1969). (J. K. Hale) 43 #2296

Sannomiya, Nobuo

(with Nishikawa, Yoshikazu) Minimum-impulse time-fixed orbital transfer of a space vehicle. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 750-765. (Authors' summary) 42 #5679

(with Nishikawa, Yoshikazu; Itakura, Hidekiyo) Suboptimal design of a nonlinear feedback system. *Mem. Fac. Engrg. Kyoto Univ.* 32 (1970), 334-347. (E. O. Roxin) 42 #9017

Sannuti, Peddapullaiah

(with Kokotović, P.) Singular perturbation method for reducing the model order in optimal control design. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 468-477. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #2393

(with Kokotović, P.) Singular perturbation method for near optimum design of high-order non-linear systems. (French, German and Russian summaries) *Automatica—J. IFAC* 5 (1969), 773-779. (A. B. Kuržanskiĭ) 43 #4525

Continuity and differentiability properties of optimal control with respect to singular perturbations. *IEEE Trans. Automatic Control* AC-14 (1969), 762-763. (Author's summary) 42 #8368

Near optimum design of time-lag systems by singular perturbation method. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga.,* 1970*), pp.* 489-496. *Amer. Soc. Mech. Engrs., New York,* 1970. (Author's summary) 41 #8109

Sanov, I. N.

An elimination formula. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 841-845. (D. Ž. Djoković) 35 #5460

Euclid's algorithm and one-sided prime factorizations for matrix rings. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 846-852. (W. G. Leavitt) 35 #5464

(See also Borovkov, A. A.; Kozlov, V. Ja.; Linnik, Ju. V.; Faddeev, D. K.; Golovanov, P. N.; Kostrikin, A. I.; Novikov, P. S.; Čencov, N. N., 41 #1490)

San Roman, J. Sancho. See Sancho de San Román, Juan.

de Sans, P. Pascual. See Pascual, Pedro.

Šanskiĭ, V. V. Semenov-Tjan. See Semenov-Tjan-Šanskiĭ, V. V.

Sansone, Fred J.

Combinatorial functions and regressive isols. *Pacific J. Math.* 13 (1963), 703-707. (A. Nerode) 32 #5509

A mapping of regressive isols. *Illinois J. Math.* 9 (1965), 726-735. (A. Nerode) 32 #5510

The summation of certain series of infinite regressive isols. *Proc. Amer. Math. Soc.* 16 (1965), 1135-1140. (H. Gonshor) 37 #1243

On order-preserving extensions to regressive isols. *Michigan Math. J.* 13 (1966), 353-355. (A. Nerode) 35 6555

The backward and forward summation of infinite series of isols. *Math. Scand.* 24 (1969), 217-220 (1970). (L. Hay) 43 #1833

Sansone, Giovanni

Sistemi di equazioni differenziali non lineari nello spazio a tre e a quattro dimensioni. Risultati topologici-risultati analitici-applicazioni. *Confer. Sem. Mat. Univ. Bari No.* 68-69 (1961), 28 *pp.* (L. A. MacColl) 32 #260

* (with Conti, R.; Graffi, D.) The Italian contribution to the theory of non-linear ordinary differential equations and to non-linear mechanics during the years 1951-1961. Quaderni de "La Ricerca Scientifica", 1. *Consiglio Nazionale delle Ricerche, Rome,* 1962. iii + 23 *pp.* (L. Cesari) 32 #1391

L'équation de M. Dini $xy'' + y' = \sin y$. *Bull. Soc. Math. Phys. Serbie* 14 (1962), 17-24. (W. Strodt) 33 #358

L'equazione $\ddot\theta + f(\theta,\alpha)\, h(\dot\theta) = g(\theta) + p(t)$. *Univ. e Politec. Torino Rend. Sem. Mat.* 22 (1962/63), 81-89 (1964). (W. A. Coppel) 29 #2461

Nonlinear differential systems of the third and fourth order. *Differential Equations and Their Applications (Proc. Conf., Prague,* 1962*), pp.* 143-165. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (J. O. C. Ezeilo) 29 #6114

* Lezioni sulla teoria delle funzioni di una variabile complessa. Vol. I. Quarta edizione. *CEDAM (Casa Editrice Dott. Antonio Milani), Padova,* 1963. xi + 326 *pp.* (Editors) 31 #313

* Equazioni differenziali nel campo reale. Parte seconda. Terza edizione. *Zanichelli, Bologna,* 1963. xvi + 495 *pp.* (Editors) 35 #3147

* (with Conti, R.) Non-linear differential equations. Revised edition. Translated from the Italian by Ainsley H. Diamond. International Series of Monographs in Pure and Applied Mathematics, Vol. 67. *A Pergamon Press Book. The Macmillan Co., New York,* 1964. xiii + 536 *pp.* (C. Corduneanu) 31 #1417

L'équation $\ddot\theta + f(\theta,\alpha)h(\dot\theta) = g(\theta) + p(t)$. *J. Math. Pures Appl.* (9) 43 (1964), 149-175. (J. J. Schäffer) 29 #6113

Sull'equazione differenziale non lineare di A. J. Lerner $y\,dy/dx + y + (\sqrt{|x|}) \operatorname{sgn} x = 0$. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 185-208. (E. O. Roxin) 34 #3004

(with Merli, L.) L'equazione $y'' + 2\alpha[(x-a)y]' + 4\beta y(1-x^2)^{-1} = 0$. *Ann. Mat. Pura Appl.* (4) 67 (1965), 95-112. (W. Strodt) 33 #332

L'equazione $y\,dy/dx + y + |x|^\upsilon \operatorname{sgn} x = 0$ $(1 \geq \upsilon \geq 0)$. *Ann. Mat. Pura Appl.* (4) 77 (1967), 337-375. (E. O. Roxin) 37 1694

The equation $y\,dy/dx + y + |x|^\upsilon \operatorname{sgn} x = 0$ $(\upsilon > 1)$. *J. Differential Equations* 4 (1968), 114-120. (E. O. Roxin) 36 #4068

Sui tetraedri con quattro sfere tangenti inscritte. *Period. Mat.* (4) 46 (1968), 289-304. (E. Morgantini) 39 #2050

* (with Reissig, R.; Conti, R.) Nichtlineare Differentialgleichungen höherer Ordnung. Consiglio Nazionale delle Ricerche Monografie Matematiche, No. 16. *Edizioni Cremonese, Rome,* 1969. xv + 738 *pp. (loose errata)* (J. W. Heidel) 39 #3088

* (with Gerretsen, Johan) Lectures on the theory of functions of a complex variable. II: Geometric theory. *Wolters-Noordhoff Publishing, Groningen,* 1969. x + 700 *pp.* (G. G. Weill) 41 #3714

Su un'equazione differenziale non lineare della fisica nucleare. *Symposia Mathematica, Vol. VI (INDAM, Rome,* 1970*), pp.* 3-139. *Academic Press, London,* 1971. (H. A. Antosiewicz) 44 #5548

Sasone, L.

(with Polese, N.) Sulla determinazione della costante ottima per le iterazioni concatenate con forzamento successivo. (English summary) *Calcolo* 4 (1967), 511-540. (Authors' summary) 44 #4924

Santacroce, Guido

Su i momenti fattoriali di una distribuzione del Pólya a più variabili. *Giorn. Ist. Ital. Attuari* 30 (1967), 90-94. (Author's summary) 38 #6694

Santagati, Giuseppe

Su alcuni sistemi di equazioni integrodifferenziali. (English summary) *Ann. Mat. Pura Appl.* (4) 63 (1963), 71-121. (W. T. Reid) 30 #424

Problemi quasi lineari negli spazi di Banach. Unicità e dipendenza continua della soluzione dai dati. *Matematiche (Catania)* 18 (1963), 15-39. (J. S. Kim) 29 #6141

Sopra un teorema della teoria del prolungamento di misure. *Matematiche (Catania)* 18 (1963), 73-82. (E. Baiada) 29 #4854

Alcune osservazioni sopra il problema del prolungamento di misure relative da reticoli d'insiemi. *Matematiche (Catania)* 18 (1963), 83-97. (P. V. Reichelderfer) 29 #3599

Ulteriori osservazioni sulla limitatezza di una funzione numerica definita in un reticolo d'insiemi. *Ricerche Mat.* 12 (1963), 262-269. (E. Baiada) 29 #4853

Su alcuni sistemi di equazioni integrodifferenziali in ipotesi di Carathéodory. *Ann. Mat. Pura Appl.* (4) 67 (1965), 235-299. (W. T. Reid) 31 #3814

Sulla derivazione sotto il segno di integrale. *Matematiche (Catania)* 21 (1966), 313-324. (P. V. Reichelderfer) 34 #1465

Sul problema de Picard in ipotesi di Carathéodory. (English summary) *Ann. Mat. Pura Appl.* (4) 75 (1967), 47-94. (W. T. Reid) 35 #6961

(with Pulvirenti, Giuseppe) Esistenza, unicità e dipendenza continua per una classe di problemi ai limiti non lineari. (English summary) *Ann. Mat. Pura Appl.* (4) 76 (1967), 133-147. (J. Prouse) 36 #5782

(with Pulvirenti, Giusseppe) Controlli lineari negli spazi di Orlicz. *Ann. Mat. Pura Appl.* (4) 76 (1967), 165-202. (H. A. Antosiewicz) 37 #804

Sulla dipendenza continua dai dati della soluzione relativa ad una classe di problemi ai limiti non lineari negli spazi vettoriali. *Matematiche (Catania)* 22 (1967), 24-39. (R. Conti) 36 #2026

(with Pulvirenti, Giuseppe) Sulla teoria dei controlli lineari negli spazi di Orlicz di funzioni a valori vettoriali. *Ann. Mat. Pura Appl.* (4) 78 (1968), 279-321. (H. O. Fattorini) 37 #4378

Alcuni problemi di controllo ottimo relativi ad una equazione alle derivate parziali di tipo iperbolico. *Matematiche (Catania)* 23 (1968), 522-540. (N. D. Sen Gupta (Zbl 192, 513)) 43 #2339

(with Pulvirenti, Giusseppe) Controlli lineari nel probelma di Dirichlet per una equazione di tipo iperbolico. *Matematiche (Catania)* 23 (1968), 561-577. (N. D. Sen Gupta (Zbl 192, 513)) 43 #2340

(with Pulvirenti, Giuseppe) Sulla relativa limitatezza di una funzione a valori vettoriali definita in un reticolo d'insiemi. *Matematiche (Catania)* 24 (1969), 47-55. (S. Foglio) 41 #5590

(with Pulvirenti, Giuseppe) Sul prolungamento finitamente additivo o σ-additivo di una funzione a valori vettoriali modulare in un reticolo. *Matematiche (Catania)* 24 (1969), 56-65. (S. Foglio) 42 #1972

(with Pulvirenti, Giuseppe) Nuovi contributi alla teoria dei controlli per sistemi materiali retti da una equazione alle derivate parziali di tipo iperbolico. (English summary) *Matematiche (Catania)* 24 (1969), 375-391. (B. J. Leon) 42 #9019

Santaló, Luis A.

* Geometrías no euclidianas. (Spanish) [Non-euclidean geometries] *Editorial Universitaria de Buenos Aires, Buenos Aires,* 1961. 64 pp. (H. R. Müller) 31 #1599

On some characteristic properties of the sphere. (Spanish. English summary) *Univ. Nac. Tucumán Rev. Ser. A* 14 (1962), 287-297. (H. W. Guggenheimer) 29 #3963

A relation between the mean curvatures of parallel convex bodies in spaces of constant curvature. (Spanish. English summary) *Rev. Un. Mat. Argentina* 21, 131-137 (1963). (G. Tallini) 29 #6423

* Introducción a la geometría diferencial de variedades diferenciables. (Spanish) [Introduction to the differential geometry of differentiable manifolds] Cursos y Seminarios de Matemática, Fasc. 19. *Universidad de Buenos Aires, Buenos Aires,* 1965. 153 *pp.* (Editors) 37 #845

Integral geometry of the projective groups of the plane depending on more than three parameters. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 307-335. (M. Kurita) 34 #5003

* Geometrías no euclidianas. (Spanish) [Non-euclidean geometries] Third revised edition. Cuadernos de EUDEBA, No. 45. *Editorial Universitaria de Buenos Aires, Buenos Aires,* 1966. 64 *pp.* (Editors) 35 #865

On Einstein's unified field theory. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 343-352. *Indiana Univ. Press, Bloomington, Ind.*, 1966. (H. A. Buchdahl) 35 #1332

* Geometría proyectiva. (Spanish) [Projective geometry] *Editorial Universitaria de Buenos Aires, Buenos Aires,* 1966. xii + 371 *pp.* (P. Abellanas) 35 #6014

Groups of the plane with respect to which sets of points and lines admit an invariant measure. (Spanish. English summary) *Rev. Un. Mat. Argentina* 23 (1966/67), 119-148. (J. E. Brothers) 38 #2719

Average values for polygons formed by random lines in the hyperbolic plane. (Spanish. English summary) *Univ. Nac. Tucumán Rev. Ser. A* 16 (1966), 29-43. (J. E. Brothers) 37 #2158

Integral geometry. *Studies in Global Geometry and Analysis, pp.* 147-193. *Math. Assoc. Amer. (distributed by Prentice-Hall, Englewood Cliffs, N. J.)*, 1967. (M. Kurita) 35 #6114

Total absolute curvatures of manifolds contained in a Euclidean space. (Spanish. English summary) *Acta Ci. Compostelana* 4 (1967), 149-158. (R. L. Bishop) 41 #967

Horocycles and convex sets in hyperbolic plane. *Arch. Math. (Basel)* 18 (1967), 529-533. (J. E. Brothers) 37 #870

Spaces with two affine connections. *Bull. Calcutta Math. Soc.* 59 (1967), 3-8. (Y. Mutô) 40 #6435

On the converse of a theorem of Jacobi relative to space curves. (Spanish. English summary) *Univ. Nac. Tucumán Rev. Ser. A* 17 (1967), 83-89. (E. Bompiani) 37 #5795

Horospheres and convex bodies in hyperbolic space. *Proc. Amer. Math. Soc.* 19 (1968), 390-395. (G. D. Chakerian) 36 7096

On some geometric inequalities in the style of Fáry. *Amer. J. Math.* 91 (1969), 25-31. (G. D. Chakerian) 39 #3395

Convexity in the hyperbolic plane. (Spanish. English summary) *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 173-183. (H. R. Müller) 40 #7943

Mean values and curvatures. (Armenian and Russian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 3, 286-295. (R. L. Bishop) 43 #8033

Santa Pietro, John

Some computations in the modular representation ring of a finite group. *Proc. Cambridge Philos. Soc.* 69 (1971), 163-166. (L. Dornhoff) 42 #3196

Santarelli, Antonio

Sulla stabilità sei sistemi binari stretti. (English summary) *Mem. Soc. Astronom. Ital. (N.S.)* 36 (1965), 151-168. (Author's summary) 32 #993

Šantavá-Krohová, Sylva

Root properties of the solutions of a system of three linear homogeneous differential equations of order 1. (Czech. Russian and German summaries) *Acta Fac. Natur. Univ. Comenian.* 10, *fasc.* 5, 43-55 (1966). (Z. Opial) 34 #7860

Santhanam, T. S.

(with Sudarshan, E. C. G.; O'Raifeartaigh, L.) Origin of unitary symmetry and charge conservation in strong interactions. *Phys. Rev.* (2) 136 (1964), B1092-B1096. (O. W. Greenberg) 31 #5562

Some remarks on the construction of invariants of semisimple local Lie groups. *J. Mathematical Phys.* 7 (1966), 1886-1888. (S. Datta Majumdar) 35 #4335

(with Ruegg, H.; Rühl, W.) The SU(6) model and its relativistic generalizations. *Helv. Phys. Acta* 40 (1967), 9-134. (A. S. Wightman) 37 #5011

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Sundaram, A.) Helicity matrices for generalized Clifford algebra. *J. Math. Anal. Appl.* 26 (1969), 275-278. (F. D. Veldkamp) 38 #5822

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Ranganathan. N. R.; Vasudevan, R.) The generalized Clifford algebra and the unitary group. *J. Math. Anal. Appl.* 27 (1969), 164-170. (H. van Dam) 40 #172

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Ranganathan. N. R.; Vasudevan, R.) Idempotent matrices from a generalized Clifford algebra. *J. Math. Anal. Appl.* 27 (1969), 563-564. (H. van Dam) 40 #173

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.) On the representations of generalised Clifford algebras. *J. Mathematical and Physical Sci.* 3 (1969), 307-313. (J.-P. Lafon) 42 #1852

Generating functions of classical groups and evaluation of partition functions. *J. Mathematical Phys.* 10 (1969), 1704-1710. (P. W. Higgs) 40 #2296

(with Chandrasekaran, P. S.) Clifford algebra and massless particles. *Progr. Theoret. Phys.* 41 (1969), 264-268. (E. C. G. Sudarshan) 41 #4933

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.) *L*-matrices and the fundamental theorem of spinor theory. *Symposia on Theoretical Physics and Mathematics, Vol.* 10 *(Inst. Math. Sci., Madras, 1969), pp.* 63-68. *Plenum, New York,* 1970. 44 #3624

(with Chandrasekaran, P. S.; Menon, Nalini B.) General involutional transformations and the representation of GL(*n*). *J. Mathematical Phys.* 12 (1971), 377-383. (D. B. Fairlie) 43 #5802

Santi, Ettore

Moltiplicatori $(\overrightarrow{L^p} - \overrightarrow{L^q})$ degli integrali di Fourier. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 77-96. (M. de Guzmán) 42 #2292

de Santillana, G.

The Wilkins Lecture, 1964. Galileo today. *Proc. Roy. Soc. Ser A* 280 (1964), 447-458. 30 #4652

Santilli, R. M.

A realization of the $U_{q,i}$ algebra in terms of quantum-mechanical operators. (Italian and Russian summaries) *Nuovo Cimento A* (10) 51 (1967), 74-88. (Author's summary) 35 #3979

Noncompact $\mathrm{SU}_{3,1}$ extension of the SU_3 symmetries. (Italian and Russian summaries) *Nuovo Cimento A* (10) 51 (1967), 89-107. (Author's summary) 35 #3980

Imbedding of Lie algebras in nonassociative structures. *Nuovo Cimento A* (10) 51 (1967), 570-576. (S. Sankaran) 36 #2663

An introduction to Lie-admissible algebras. *Nuovo Cimento Suppl.* (1) 6 (1968), 1225-1249. (From the author's introduction) 39 #3761

(with Aghassi, J. J.; Roman, P.) Relation of the inhomogeneous de Sitter group to the quantum mechanics of elementary particles. *J. Mathematical Phys.* 11 (1970), 2297-2301. (D. A. Uhlenbrock) 44 #6222

Santinelli, Raquel

Proof of the isomorphism $H^p \cong H^p \times H^p$. (Spanish) *Rev. Un. Mat. Argentina* 23 (1966/68), 191-194. (M. Reade) 40 #4470

Santoro, Paolo

Condizioni di non controllabilità per i sistemi lineari. (English summary) *Boll. Un. Mat. Ital.* (3) 19 (1964), 400-406. (H. A. Antosiewicz) 31 #3262

Sulle stabilità intermedie tra quella uniforme e quella asintotica uniforme per i sistemi lineari. *Matematiche (Catania)* 20 (1965), 41-45. (G. Sansone). 31 #6016

Sull'equazione funzionale quasi-lineare $u(x) + p(x) = y$ fra spazi di Banach. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 348-352. (D. G. de Figueiredo) 41 #4331

Alcune generalizzazioni di teoremi esistenziali che utilizzano il procedimento di iterazione. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 541-544. (Gianni A. Pozzi) 43 #3528

Santoro Calafiore, Santa

Due teoremi di stabilità asintotica per equazioni differenziali lineari, omogenee, del secondo ordine. (French summary) *Riv. Mat. Univ. Parma* (2) 6 (1965), 65-69. (I. Fenyő) 36 #1773

Santos, Alicia Hidalgo

(with Maxfield, John E.) Lin's penultimate remaindering under translation. *J. Natur. Sci. and Math.* 8 (1968), 113-120. (J. Vandergraft) 38 #1827

Santos, Emilio

(with Alfaro, Bernardo) Formula for approximating nth roots. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 29 (1969), 3-7. (A. S. Householder) 39 #5054

Mathematical foundations of the classical mechanics of systems with infinitely many degrees of freedom. *Rev. Mat. Hisp.-Amer.* (4) 29 (1969), 133-147. (L. M. Garrido) 43 #1569

Santos, Eugene S.

(with Wee, William G.) General formulation of sequential machines. *Information and Control* 12 (1968), 5-10. (H. D. Block) 38 #6903

Maximin automata. *Information and Control* 13 (1968), 363-377. (H. D. Block) 39 #8026

Maximin, minimax, and composite sequential machines. *J. Math. Anal. Appl.* 24 (1968), 246-259. (H. D. Block) 38 #6904

Maximin sequential chains. *J. Math. Anal. Appl.* 26 (1969), 28-38. (S. Huzino) 39 #3922

Maximin sequential-like machines and chains. *Math. Systems Theory* 3 (1969), 300-309. (A. Paz) 42 #1604

Probabilistic Turing machines and computability. *Proc. Amer. Math. Soc.* 22 (1969), 704-710. (A. Paz) 40 #2468

Computability by probabilistic Turing machines. *Trans. Amer. Math. Soc.* 159 (1971), 165-184. (P. Turakainen) 43 #7270

dos Santos, José Ribeiro. See Ribeiro Dos Santos, José.

dos Santos, Nathan Moreira. See Moreira dos Santos, Nathan.

Santosuosso, Giulio

Sul trasporto ad un ultraprodotto di anelli di proprietà dei suoi fattori. (English summary) *Rend. Mat.* (6) 1 (1968), 82-99. (G. Michler) 38 #4520

Sugli ideali di prodotto diretto di anelli. (English summary) *Rend. Mat.* (6) 4 (1971), 75-81. (G. Eisenreich) 44 #6741

Sanwal, J. C.

On complete locally euclidean spaces. *Proc. Amer. Math. Soc.* 19 (1968), 1183-1184. (K. Takano) 38 #1638

Sanyal, B. C.

(with Sengupta, J. K.) A fractile programming approach with extreme sample estimates of parameters. *Statistica Neerlandica* 24 (1970), 51-59. (J. Kiefer) 42 #1513

Sanz de Bremond, Antonio Plans y. See Plans, Antonio.

Šaova, S. M.

A qualitative study of a certain differential equation. (Russian) *Krasnodar. Gos. Ped. Inst. Naučn. Trudy Vyp.* 92 (1967), 57-76. (K. R. Schneider) 44 #1869

The cycles of a certain differential equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 8 (75), 96-102. (G. Maess) 38 #3512

The limit cycles of a certain differential equation. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 303-308. (N. Rozov (RŽMat 1968 #11 B238)) 43 #3549

A qualitative study of a certain differential equation. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 309-314. *(errata insert)* (K. R. Schneider) 44 #1868

Sapagovas, J.

Convergence of sums of Markov renewal processes to a Poisson process. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 6 (1966), 271-277. (Z. Šidák) 35 #2354

System reliability in the case of noninstantaneous renewal time. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 509-512 (1968). (K. R. Parthasarathy) 37 #5951

The reliability of a renewable system with dependent elements. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 589-604. (K. R. Parthasarathy) 42 #6951

The convergence of sums of Markov renewal processes to a multidimensional Poisson process. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 817-826. (Author's summary) 42 #2554

Sapagovas, M. P.

Solution of quasilinear elliptic equations by the difference method. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 291-302. (H. J. Stetter) 34 #3808

On the question of the solution of quasilinear elliptic equations by the method of finite differences. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 637-644. (V. Thomée) 33 #6858

On a certain iterative method for solving a nonlinear ordinary differential equation. (Russian) *Vyčisl. Mat. (Kiev) Vyp.* 1 (1965), 124-133. (H. Shintani) 34 #7031

Method of finite differences for the solution of quasilinear elliptic equations with discontinuous coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 638-647. (E. L. Albasiny) 34 #5321

(with Agal′cev, A. V.) A solution of the minimal surface equation by the method of finite differences. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 373-379 (1968). (V. Thomée) 37 #6046

Sapar, A.

On the energy-momentum tensor of the gravitational field and the superenergy tensor. (Russian. English summary) *Eesti NSV Tead. Akad. Tartu Astronoom. Observ. Publ.* 34 (1964), 319-358. 32 #3807

Saparnijazov, O.

A character sum of powers of the modulus of the Dirichlet L-functions in the critical strip. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 4, 13-19. (E. Fogels) 30 #1101

Asymptotic equalities for the number of classes of ideals of an imaginary quadratic field. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 303-305. (W. Schwarz) 33 #4042

Certain arithmetical estimations. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 4, 26-31. (W. H. Simons) 44 #5282; erratum, 44, p. 1633

Saperstone, Stephen H.

(with Yorke, James A.) Controllability of linear oscillatory systems using positive controls. *SIAM J. Control* 9 (1971), 253-262. (D. H. Chyung) 44 #3730

On a differential equation for the eigenvectors of a real symmetric matrix. *SIAM J. Math. Anal.* 2 (1971), 413-419. (J. H. George) 44 #5328

Saphar, Pierre

Contribution à l'étude des applications linéaires dans un espace de Banach. *Bull. Soc. Math. France* 92 (1964), 363-384. (R. G. Bartle) 32 #4549

Calcul fonctionnel et sous-espaces stables pour une application linéaire continue dans un espace de Banach. *C. R. Acad. Sci. Paris* 258 (1964), 6055-6057. (L. Bungart) 29 #6321

Sur les applications linéaires dans un espace de Banach. II. *Ann. Sci. École Norm. Sup.* (3) 82 (1965), 205-240. (E. R. Lorch) 35 #2164

Applications à puissance nucléaire et applications de Hilbert-Schmidt dans les espaces de Banach. *C. R. Acad. Sci. Paris* 261 (1965), 867-870. (A. F. Ruston) 32 #8166

Applications à puissance nucléaire et applications de Hilbert-Schmidt dans les espaces de Banach. *Ann. Sci. École Norm. Sup.* (3) 83 (1966), 113-151. (A. F. Ruston) 35 #2170

Produits tensoriels topologiques et classes d'applications linéaires. *C. R. Acad. Sci. Paris Ser. A - B* 266 (1968), A526-A528. (L. Bungart) 38 #2575a

Comparaison de normes sur des produits tensoriels d'espaces de Banach. Applications. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A809-A811. (L. Bungart) 38 #2575b

Quelques propriété des normes tensorielles g_k et d_k. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A528-A531. (A. Pietsch) 40 #702

Applications p-sommantes et p-décomposantes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1093-A1096. (A. Pietsch) 42 #830

Produits tensoriels d'espaces de Banach et classes d'applications linéaires. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 71-100. (*errata insert*) (A. Wiweger) 43 #878

de Sapio, Rodolfo. See De Sapio, Rodolfo.

Šapiro, A. D.

(with Volkonskiĭ, V. A.; Levina, L. V.; Pomanskiĭ, A. B.; Pjateckiĭ-Šapiro, I. I.) Stochastic methods of the solution of integer programming problems. (Russian) *Problemy Kibernet. No.* 20 (1968), 81-89. (Authors' summary) 44 #3697

(with Pomanskiĭ, A. B.) Iterative methods for the solution of branching problems which contain discrete variables. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 32-34. (B. Bereanu) 41 #8026

Šapiro, A. P.

The absolute center of an Abelian group. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 7 (1966), 88-89. (E. Enochs) 34 #7643

Characteristic polynomials of symmetric matrices of order four over the field of p-adic numbers. (Russian) *Dal'nevostoč. Gos. Univ. Učen. Zap.* 16 (1968), 114-147. (E. Inaba) 43 #246

Şapiro, I. I. Peateţki. See Pjateckiĭ-Šapiro, I. I.

Šapiro, I. I. Pjateckiĭ. See Pjateckiĭ-Šapiro, I. I.

Šapiro, I. S.

(with Kolybasov, V. M.; Augst, G. R.) Treiman-Yang criterion for direct nuclear reactions. *Nuclear Phys.* 61 (1965), 353-367. (Authors' summary) 31 #4477

Šapiro, Ja. L.

On a class of Riemannian spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 12 (1963), 203-212. (G. Kručkovič (RŽMat 1963 #12 A459)) 33 #6547

(with Temirov, T.) On Riemannian spaces with reducible isotropy group. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 539-541. (L. W. Green) 30 #4228

Simply transitive groups of motions in affinely connected spaces. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 383-395. (B. Cenkl) 34 #8326

(with Temirov, T.) On the question of motions in Riemannian spaces with reducible isotropy group. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1407-1414. (T. Huskowski) 33 #4860

Affinely connected spaces with the group of affine homotheties. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 447-455. (L. Tamássy) 34 #8327

A classification of one-parameter groups of motions of a Riemannian space. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 456-466. (I. Egorov (RŽMat 1967 #6 A359)) 36 #7072

Included displacements. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 10-20. (I. Vaisman) 41 #6094

Global geodesic direction fields. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 4 (95), 103-111. (Alan Weinstein) 43 #4061

Šapiro, Ja. N.

Imbedding of a finite CW-complex in a sphere. (Russian) *Mat. Zametki* 4 (1968), 669-676. (K. Gęba) 39 #4849

Šapiro, R. L.

(with Vilenkin, N. Ja.) Irreducible representations of the group SU(n) of class I relative to SU$(n-1)$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 9-20. (A. J. Coleman) 36 #2741

Irreducible representations of the group SU(n) of class 1 with respect to SU$(n-1)$. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 180-182. (A. Hulanicki) 35 #1707

Special functions related to representations of the group SU(n), of class I with respect to SU$(n-1)$ $(n \geq 3)$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 97-107. (W. Wojtyński) 37 #6512

Šapiro, V. D.

Nonlinear theory of the interaction of a monoenergetic beam with a plasma. *Ž. Èksper. Teoret. Fiz.* 44 (1963), 613-625 *(Russian. English summary); translated as Soviet Physics JETP* 17 (1963), 416-423. (R. A. Gerwin) 29 #1972

(with Faĭnberg, Ja. B.) Quasilinear theory of instabilities caused by injection of an electron beam into a semi-infinite plasma. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1389-1404 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 937-946. 32 #5293

Šapiro, Z. Ja.

(with Gel'fand, I. M.; Graev, M. I.) Integral geometry on manifolds of k-dimensional planes. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1236-1238. (Z. Nádeník) 33 #6565

(with Gel'fand, I. M.; Graev, M. I.) Integral geometry on k-dimensional planes. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), 15-31. (Edwin Hewitt) 35 #3620

(with Gel'fand, I. M.; Graev, M. I.) Differential forms and integral geometry. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 2, 24-40. (I. Kolář) 39 #6232

(See also Leray, Jean, 42 #8067)

(with Gel'fand, I. M.; Graev, M. I.) An integral geometry problem connected with a pair of Grassmann manifolds. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 259-262. (Gr. Stanilow) 42 #3728

(with Gel'fand, I. M.; Graev, M. I.) Integral geometry in a projective space. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 1, 14-32. (I. Kolář) 43 #6856

Šapkarev, Ilija A.

Sur des équations linéaires aux dérivées partielles du second ordre transformables en elles-mêmes par un changement de fonction. (Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 14 (1963), 23-30 (1964). (H. Ogawa) 32 #1433

Équations différentielles linéaires des ordres 7 et 8 dont l'intégration se ramène à celle d'une équation linéaire de second ordre. (Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 14 (1963), 41-44 (1964). (P. Waltman) 33 #1521

Sur des équations différentielles transformables en elles-mêmes par un changement de fonction. *Bull. Soc. Math. Phys. Serbie* 15 (1963), 21-27. (A. Pozzi) 31 #6005

Sur des équations différentielles linéaires transformables en elles-mêmes par un changement de fonction. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Ser. II Društvo Mat. Fiz. Hrvatske* 19 (1964), 211-215. (D. S. Mitrinović) 31 #6006

Sur une équation différentielle linéaire d'ordre n dont la solution générale est un polynôme de n-ème degré. *Mat. Vesnik (N.S.)* 1(16) (1964), 49-50. (M. Ráb) 31 #401

Über die invarianten Riccatischen Differentialgleichungen. (Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 17 (1966), 33-43 (1968). (R. E. Gaines) 39 #523

Sur des équations linéaires aux derivées partielles du second et du troisième ordre transformables en elles-mêmes par un changement de fonction. (Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 18 (1967), 5-12. (H. Kumano-go) 39 #5915

Über lineare Differentialgleichungen mit der Eigenschaft daß k-te Potenzen der Integrale einer linearen Differentialgleichung zweiter Ordnung ihre Integrale sind. *Mat. Vesnik* 4(19) (1967), 67-70. (J. Moser) 35 #4487

Sur une équation linéaire différentielle du second ordre résoluble par quadratures. (Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 19 (1968), 5-8 (1970). (N. Hayek Calil) 43 #3524

Some remarks on second order homogeneous linear differential equations whose general integral is obtainable by quadratures. (Serbo-Croatian. German summary) *Mat. Vesnik* 5(20) (1968), 505-512. 39 #513

Sur une classe d'équations différentielles linéaires du deuxième ordre résolubles par quadratures. *Mat. Vesnik* 6(21) (1969), 335-338. (D. A. Lutz) 40 #7512

Über die Integration der linearen Differentialgleichung dritter Ordnung in geschlossener Form. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 63-66. (H. E. Fettis) 43 #590

A homogeneous linear second order differential equation whose integrals can be obtained by quadrature. (Macedonian. German summary) *Makedon. Akad. Nauk. Umet. Oddel. Prirod.-Mat. Nauk. Prilozi* 2 (1970), *no.* 1, 17-19. (B. S. Popov) 43 #3525

Linear differential equations of higher order that are reducible to linear differential equations of lower order. (Macedonian. French summary) *Bull. Soc. Math. Phys. Macédoine* 20 (1969), 45-48 (1971). (B. S. Popov) 44 #503

Šapkin, A. F.

The closure of two computational algorithms based on the idea of orthogonalization. (Russian) *Ž. Vycisl. Mat. i Mat. Fiz.* 7 (1967), 411-416. (H. Shintani) 35 #3847

The optimal methods on function classes for computing the eigenvalues of Fredholm's integral operator. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 1057-1060. (J. Burlak) 39 #3727

Indeterminate methods of solving Poisson's equation which are optimal on classes of functions. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 744-747. (B. A. Bondarenko) 40 #8279

A stochastic variant of the Adams method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 766-770. (S. Maloň) 44 #4913

Sapogov, N. A.

On the norms of linear polynomial operators associated with problems of approximating continuous functions. I. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 3, 53-68. (G. G. Lorentz) 29 #5039

On the norms of linear polynomial operators associated with problems of approximating continuous functions. II. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 4, 72-75. (G. G. Lorentz) 30 #1342

Saposnik, Rubin

(with Quirk, James P.) Homogeneous production functions and convexity of the production possibility set. *Metroecon.* 18 (1966), 192-197. (J. J. Moreau) 38 #5458

Šapoval, E. A.

The upper critical field of superconducting alloys. *Ž. Èksper. Teoret. Fiz.* 41 (1961), 877-885 *(Russian. English summary); translated as Soviet Physics JETP* 14 (1962), 628-632. (J. C. Swihart) 30 #4542

Electrodynamics of superconductors diffusely reflecting electrons from their surface. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1007-1029 (*Russian. English summary*); *translated as Soviet Physics JETP* 20 (1965), 675-688. (B. P. Nigam) 32 #5266

Šapovalov, G. K.

A method of solution of the spatially homogeneous Boltzmann equation. *Dokl. Akad. Nauk SSSR* 186 (1969), 537-540 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 400-402. 41 #4989

Šapovalov, V. N.

The calculation of the symmetry algebra of the Dirac equation. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1968, *no.* 4, 146-148. (O. E. Stanaitis) 40 #1097

The symmetry group of an integral equation which is a generalization of the equation for the hydrogen atom. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1968, *no.* 6, 158-160. (O. E. Stanaitis) 40 #664

The symmetry of the Čaplygin equation. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 9, 64-70. (K.-H. Hauer) 42 #700

(with Èkle, G. G.) The symmetry of Maxwell's equations. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 11, 33-38. (J. Virsik) 43 #4356

On the determination of the symmetry group of a linear homogeneous integral equation. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 716-719. (O. E. Stanaitis) 39 #1595

Sapoženko, A. A.

On the number of functions of the algebra of logic. (Russian) *Diskret. Analiz No.* 9 (1967), 59-66. (S. Kullback) 35 #4056

Estimation of the complexity of a function. (Russian) *Diskret. Analiz No.* 9 (1967), 67-72. (S. Kullback) 35 #2691

Metric properties of almost all functions of the algebra of logic. (Russian) *Diskret. Analiz No.* 10 (1967), 91-119. (G. Asser) 36 #6328

The order of the neighborhood of maximal intervals for almost all functions of the algebra of logic. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 32-35. (E. M. Fels) 38 #951

The greatest length of a dead-end disjunctive normal form for almost all Boolean functions. (Russian) *Mat. Zametki* 4 (1968), 649-658. (E. M. Fels) 39 #5254

Sapožnikov, P. N.

Unbiased estimates for the distribution laws of integer-valued random variables. (Russian) *Perm. Gos. Ped. Inst. Učen. Zap.* 61 (1968), 82-90. *(errata insert)* (W. Hoeffding) 40 #6674

(with Lumel′skiĭ, Ja. P.) Unbiased estimators for distribution densities. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 372-380. (S. Kullback) 39 #7733

Invariant exponential families of finite dimension on homogeneous spaces. (Russian) *Mat. Zametki* 7 (1970), 707-715. (R. G. Laha) 41 #9319

Sapožnikova, V. D.

(with Maz′ja, V. G.) Solution of the Dirichlet and Neumann problems for irregular domains by potential-theoretic methods. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 1221-1223. (L. Cesari) 31 #4919

(with Maz′ja, V. G.) A remark on the regularization of a singular system in the isotropic theory of elasticity. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 2, 165-167. (J. R. M. Radok) 29 #6679

(with Burago, Ju. D.; Maz′ja, V. G.) On the theory of potentials of a double and a simple layer for regions with irregular boundaries. (Russian) *Problems Math. Anal. Boundary Value Problems Integr. Equations (Russian), pp.* 3-34. *Izdat. Leningrad. Univ., Leningrad,* 1966. (J. Král) 35 #4454

Solution of the third boundary value problem by the method of potential theory for regions with irregular boundaries. (Russian) *Problems Math. Anal. Boundary Value Problems Integr. Equations (Russian), pp.* 35-44. *Izdat. Leningrad. Univ., Leningrad,* 1966. (J. Král) 35 #4455

Sapronov, Ju. I.

(with Borisovič, Ju. G.) On the topological theory of densifying operators. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 18-20. (S. Burýšek) 38 #6414

The principle of the invariance of the rotation. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 5(155), 247-248. (T. Ando) 44 #7398

(with Borisovič, Ju. G.) Certain topological invariants of nonlinear Fredholm transformation. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 12-15. (L. Reiziņš) 43 #2743

Šapukov, B. N.

On the theory of bilinear metric spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 172-179. (M. Kucharzewski) 32 #6385

Surfaces and singular directions in a bilinear metric space of linear elements. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 180-195. (M. Kucharzewski) 32 #6386

On the maximal order of the group of motions of bilinear-metric space. (Russian) *Candidates' Works* (1964), *Math., Mech., Phys. (Russian), pp.* 105-111. *Izdat. Kazan. Univ., Kazan,* 1964. (T. Huskowski) 33 #4851

Invariant manifolds of a bilinearly metric space. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 141-160. (K. Svoboda) 35 #932

On the question of introduction of a connection in generalized Riemannian spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 161-164. (K. Svoboda) 35 #933

Generalized conjugacy, and the geometry of spaces with bilinear metric. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 153-157. (V. Bazylev (RŽMat 1969 #11 A617)) 42 #5189

Sapunkova, O. M.

(with Fal′kovič, S. V.) Čaplygin type equations in magnetogasdynamics. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 88-97. (I. O. Bohachevsky) 40 #8334

On the solution of boundary value problems of magnetogasdynamics by the hodograph method. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 6 (109), 78-85. (I. O. Bohachevsky) 44 #4991

Sarachik, Philip E.

(with Bertram, J. E.) On optimal computer control. (With discussion. French and German summaries) *Automatic and Remote Control (Proc. First Internat. Congr. Internat. Fed. Automat. Control, Moscow,* 1960*), Vol. I, pp.* 419-422. *Butterworths, London,* 1961. 33 #2441

(with Kreindler, Eliezer) On the concepts of controllability and observability of linear systems. *IEEE Trans. Automatic Control* AC-9 (1964), 129-136. (E. G. Gilbert) 32 #7270

(with Kranc, G. M.) Optimal control of discrete systems with constrained inputs. *J. Franklin Inst.* 277 (1964), 237-255. (L. W. Neustadt) 29 #2129

Functional analysis in automatic control. *IEEE Internat. Convention Record* 1965, *pt.* 6, 96-107. (Author's summary) 37 #7186

(with Kreindler, Eliezer) Concerning adjoints of discrete-time systems. *IEEE Trans. Automatic Control* AC-10 (1965), 350-352. (Authors' summary) 32 #2224

(with Kreindler, E.) Controllability and observability of linear discrete-time systems. *Internat. J. Control* (1) 1 (1965), 419-432. (E. G. Gilbert) 36 #1215

(with Dellon, Franklin) Optimal control of unstable linear plants with inaccessible states. *IEEE Trans. Automatic Control* AC-13 (1968), 491-495. (S. E. Dreyfus) 38 #4179

(with Horwitz, Lawrence B.) Davidon's method in Hilbert space. *SIAM J. Appl. Math.* 16 (1968), 676-695. (M. R. Hestenes) 38 #2653

(with Heffes, Harry) Uniform approximation of linear systems. *Bell. System Tech. J.* 48 (1969), 209-231. (Authors' summary) 38 #4167

State estimation from measurements with correlated noise without using differentiators. *Internat. J. Control* (1) 13 (1971), 53-63. (H. L. Gray) 43 #7025

Sarafyan, Diran

Existence and approximation theorems for ordinary differential equations and their systems. I. *Enseignement Math.* (2) 11 (1965), 137-158. (H. Hermes) 32 #5959

Multistep methods for the numerical solution of ordinary differential equations made self-starting. *Enseignement Math.* (2) 12 (1966), 69-79. (G. D. Byrne) 33 #6839

Error estimation for Runge-Kutta methods through pseudo-iterative formulas. *Riv. Mat. Univ. Parma* (2) 9 (1968), 1-42. (C. W. Gear) 41 #4812

Estimation of errors for the approximate solution of differential equations and their systems. (French summary) *Riv. Mat. Univ. Parma* (2) 9 (1968), 109-127. (C. W. Gear) 41 #6405

Šaraja, V. V.

(with Berman, S. D.) Representation of a class of discrete solvable groups over an arbitrary algebraically closed field. (Russian. English summary) *Algebra and Math. Logic: Studies in Algebra (Russian), pp.* 54-61. *Izdat. Kiev. Univ., Kiev,* 1966. (Roger Renne) 34 #7674

(with Berman, S. D.) The irreducible representations of an infinite direct product of finite groups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 485-489. (L. Dornhoff) 37 #1489

Saran, L. A.

(with Privalova, G. K.) On the theory of conformal mappings of a circular annulus. (Ukrainian. Russian and English summaries) *Dopovidí Akad. Nauk Ukraïn. RSR* 1964, 303-308. (M. Tomić) 31 #321

(with Privalova, G. K.) Some extremal problems for a class of functions which is star-shaped in the direction of the real axis. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 126-130. (W. C. Royster) 29 #2381

Saran, Shanti

(with Pandey, R. C.) On the hypergeometric functions of higher order in two variables. *Proc. Rajasthan Acad. Sci.* 10 (1963), 3-13. (L. J. Slater) 30 #3999

(with Srivastava, H. M.) On differential equations associated with certain hypergeometric functions of three variables. *Gaṇita* 16 (1965), 139-149. (J. A. Donaldson) 35 #3128

A definite integral involving the *G*-function. *Nieuw Arch. Wisk.* (3) 13 (1965), 226-229. (R. K. Saxena) 32 #5940

(with Srivastava, G. P.) Integrals involving Kampé de Fériet function. *Math. Z.* 98 (1967), 119-125. (A. Erdélyi) 35 #1838

(with Srivastava, G. P.) A general theorem on a Kampé de Fériet function. *Math. Notae* 21 (1968/69), 105-111. (B. R. Bhonsle) 44 #486

(with Srivastava, G. P.) A theorem on Kampé de Fériet function. *Proc. Cambridge Philos. Soc.* 64 (1968), 435-437. (L. J. Slater) 36 #5404

On the study of Horn's functions H_2 and H_4. *Gaṇita* 20 (1969), *no.* 1, 29-42. (B. M. Agrawal) 42 #6291

(with Srivastava, G. P.) Saalschützian theorems for Kampé de Fériet function. *Gaṇita* 20 (1969), *no.* 1, 65-73. (K. N. Srivastava) 42 #2053

(with Shanker, O.) Reducibility of Kampé de Fériet function. *Gaṇita* 21 (1970), *no.* 1, 9-16. (H. M. Srivastava) 44 #2954

A general theorem for bilinear generating functions. *Pacific J. Math.* 35 (1970), 783-786. (B. M. Agrawal) 43 #2252

Sarangi, J.

(with Mehra, K. L.) Asymptotic efficiency of certain rank tests for comparative experiments. *Ann. Math. Statist.* 38 (1967), 90-107. (G. E. Noether) 34 #3723

(with Narayana, T. V.; Mathsen, R. M.) An algorithm for generating partitions and its applications. *J. Combinatorial Theory Ser. A* 11 (1971), 54-61. (R. L. Graham) 43 #7342

Šarankov, E.

The solution by quadratures of differential equations of the form $y'' + (ax + b)y' + cy = 0$. (Bulgarian. Russian summary) *Godišnik Inž.-Stroitel. Inst.* 17 (1965), *kn.* 1, 61-64. (Editors) 41 #5680a

The solution by quadratures of a certain second order linear differential equation. (Bulgarian. Russian summary) *Godišnik Inž.-Stroitel. Inst.* 17 (1965), *kn.* 1, 65-70. *(loose errata)* (From the author's summary) 41 #5679

The solution by quadratures of differential equations of the form $y'' + (ax + b)y' + cy = 0$. (Bulgarian. Russian summary) *Godišnik Inž.-Stroitel. Inst.* 18 (1966), *kn.* 1, 45-48 (1967). *(loose errata)* (Editors) 41 #5680b

Šarankov, Evstati

Extremal properties of functions which map doubly connected domains. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964), *kn.* 3, 41-57 (1965). (I. Aganović) 36 #3968

Šaranov, V. G. See Šarapov, V. G.

Sarantonello, È. See Zarantonello, Eduardo H.

Sarantopoulos, Spyridion

Généralisation des formules de Frenet. (Greek summary) *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 1-15. (A. Fialkow) 35 #6047

La forme générale des équations des courbes de Bertrand. (Greek summary) *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 28-44. (A. Fialkow) 35 #6048

Équation vectorielle d'une courbe, dont la courbure et la torsion satisfont à une relation algébrique. (Greek summary) *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 45-60. (A. Fialkow) 35 #6049

Du premier cas du théorème de Fermat. *Bull. Soc. Math. Grèce (N.S.)* 10 (1969), *fasc.* 1, 76-115. (B. Garrison) 42 #4483; erratum, 43, p. 1697.

Šarapov, V. G.

The Markov endomorphisms of Lebesque space. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 91-95. (V. Drobot) 44 #6033

Šarašidze, G. K.

On the question of constructing specialized computing machines for the solution of certain combinatorial problems in applied mathematics. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Moḫsen. Anotacie. Vyp.* 3 (1970), 7-10. (E. Jokl) 43 #8459

A certain method of modelling the traveling salesman problem. (Russian) *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom.* 9 (1970), *no.* 4, 113-122. *(loose errata)* (Marcel Rădulescu) 44 #2485

Sarason, Donald

On spectral sets having connected complement. *Acta Sci. Math. (Szeged)* 26 (1965), 289-299. (Chandler Davis) 32 #6229

A remark on the Volterra operator. *J. Math. Anal. Appl.* 12 (1965), 244-246. (G. K. Kalisch) 33 #580

The H^p spaces of an annulus. *Mem. Amer. Math. Soc. No.* 56 (1965), 78 *pp.* (P. L. Duren) 32 #6256

Invariant subspaces and unstarred operator algebras. *Pacific J. Math.* 17 (1966), 511-517. (L. de Branges) 33 #590

Weak-star generators of H^∞. *Pacific J. Math.* 17 (1966), 519-528. (P. L. Duren) 35 #2151

(with Ahern, P. R.) The H^p spaces of a class of function algebras. *Acta Math.* 117 (1967), 123-163. (T. Birtel) 36 #689

(with Ahern, P. R.) On some hypo-Dirichlet algebras of analytic functions. *Amer. J. Math.* 89 (1967), 932-941. (R. B. Burckel) 36 #4338

(with Helson, Henry) Past and future. *Math. Scand.* 21 (1967), 5-16 (1968). (R. Jajte) 38 #5282

Generalized interpolation in H^∞. *Trans. Amer. Math. Soc.* 127 (1967), 179-203. (R. G. Douglas) 34 #8193

On the order of a simply connected domain. *Michigan Math. J.* 15 (1968), 129-133. (P. L. Duren) 37 #3326

A remark on the weak-star topology of l^∞. *Studia Math.* 30 (1968), 355-359. (I. Namioka) 38 #2581

(with Douglas, R. G.) Fredholm Toeplitz operators. *Proc. Amer. Math. Soc.* 26 (1970), 117-120. (M. J. Fisher) 41 #4275

(with Lee, Matthew) The spectra of some Toeplitz operators. *J. Math. Anal. Appl.* 33 (1971), 529-543. (R. G. Douglas) 43 #960

Sarason, Leonard

On hyperbolic mixed problems. *Arch. Rational Mech. Anal.* 18 (1965), 310-334. (R. Hersh) 30 #2228

Hydromagnetic switch-on shocks. *J. Mathematical Phys.* 6 (1965), 1508-1518. (L. Todd) 31 #6497

(with Phillips, R. S.) Singular symmetric positive first order differential operators. *J. Math. Mech.* 15 (1966), 235-271. (D. E. Edmunds) 32 #4357

Differentiable solutions of symmetrizable and singular symmetric first order systems. *Arch. Rational Mech. Anal.* 26 (1967), 357-384. (P. Ungar) 37 #4387

Elliptic regularization for symmetric positive systems. *J. Math. Mech.* 16 (1967), 807-827. (D. E. Edmunds) 35 #528

(with Phillips, R. S.) Elliptic-parabolic equations of the second order. *J. Math. Mech.* 17 (1967/68), 891-917. (H. Ogawa) 36 #2942

(with Phillips, R. S.) Corrigendum on: "Elliptic-parabolic equations of the second order". *J. Math. Mech.* 18 (1968/69), 191. (Editors) 37 #1804

(with Phillips, Ralph) Energy decay for the neutrino equation in the exterior of a torus. *Arch. Rational Mech. Anal.* 41 (1971), 1-17. (J. Smoller) 43 #738

A boundary value problem in a product of half-lines. *Comm. Pure Appl. Math.* 25 (1972), 103-126. (R. R. D. Kemp) 44 #7110

Sarbasov, G.

(with Urazbaev, B. M.) On the remainder of the asymptotic formula for distribution of cyclic fields of prime degree l. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 14-19. (E. Inaba) 34 #2558

Some absolutely abelian fields. (Russian) *Kazah. Gos. Ped. Inst. Učen. Zap.* 23 (1966), 5-14. (A. Schinzel) 37 #4052

Remainder term of an asymptotic formula of the distribution of elementary abelian fields of degree l^2 and type (l, l). (Russian) *Kazah. Gos. Ped. Inst. Učen. Zap.* 23 (1966), 15-18. (A. Schinzel) 37 #2719

Sharpening of the remainder term of an asymptotic formula for the distribution of cyclic fields of prime degree l. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 1, 61-62. (E. Inaba) 34 #7493

Sarbasov, K. E.

(with Marčuk, G. I.) A certain method for solving a stationary problem. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 42-45. (G. W. Hedstrom) 38 #2962

A stabilizing correction scheme for the solution of hyperbolic systems of equations and its application to dynamical problems of elasticity theory. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 1, 65-71. (P. P. Teodorescu) 39 #6563

Stability of a certain scheme of increased accuracy. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 1, 68-71. (V. Thomée) 44 #3511

Sarčimelija, R. A.

A method of solving systems of linear algebraic equations by means of integral representation of the unknowns. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 17-24. (B. T. Poljak) 43 #2840

A solution of a general linear integer problem programming by successive determination of the digits of the binary representation of the unknowns. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 243-254. (E. G. Gol′šteĭn) 44 #2495

Sard, Arthur

Uses of Hilbert space in approximation. *Approximation of Functions (Proc. Sympos. General Motors Res. Lab., 1964), pp. 17-26. Elsevier Publ. Co., Amsterdam,* 1965. (L. de Branges) 32 #2824

Hausdorff measure of critical images on Banach manifolds. *Amer. J. Math.* 87 (1965), 158-174. (F. J. Almgren, Jr.) 30 #3958

Errata to "Hausdorff measures of critical images on Banach manifolds". *Amer. J. Math.* 87 (1965), 760. (Editors) 31 #4880

Function spaces. *Bull. Amer. Math. Soc.* 71 (1965), 397-418. (A. Alexiewicz) 32 #2896

Optimal approximation. *J. Functional Analysis* 1 (1967), 222-244. (J. R. Rice) 36 #3037 (E)

Addendum to: "Optimal approximation". *J. Functional Analysis* 2 (1968), 368-369. (J. R. Rice) 38 #1457

A theory of cotypes. *Bull. Amer. Math. Soc.* 75 (1969), 936-940. (R. L. E. Schwarzenberger) 39 #6363

* (with Weintraub, Sol) A book of splines. *John Wiley & Sons, Inc., New York-London-Sydney*, 1971. x + 817 *pp.* (John Todd) 44 #1191

Sardana, M. G.

(with Das, M. N.) On the construction and analysis of some confounded asymmetrical factorial designs. *Biometrics* 21 (1965), 948-956. (R. G. Stanton) 33 #842

(with Sreenath, P. R.) Construction and analysis of designs of the type $K^2 \times 2^n$ in $K^2 \times 2^p$ plot blocks. *Calcutta Statist. Assoc. Bull.* 14 (1965), 74-79. (M. Atiqullah) 31 #4733

(with Sreenath, P. R.) Construction and analysis of designs $(2q + 1) \times 2^n$ in $(2q + 2) \times 2^p$ plot blocks. *Calcutta Statist. Assoc. Bull.* 16 (1967), 29-36. (S. Addelman) 35 #5098

Sardar, M. R. A.

(with Gould, G. G.) A property of the Gel´fand-Shilov test-function spaces of type $K\{M_p\}$. *J. London Math. Soc.* (2) 1 (1969), 542-552. (S. R. Harasymiv) 40 #4755

Sardarly, S. M.

An investigation of the solutions of nonlinear integral equations on the half-axis with respect to the parameter. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1965, *no.* 6, 24-30. (S. Burýšek) 36 #633

(with Musaev, V. M.) An application of S. A. Čaplygin's method to the Cauchy limit problem. (Russian) *Problems Comput. Math. (Russian), pp.* 182-186. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku*, 1967. (Walter Gautschi) 36 #1109

(with Musaev, V. M.) An investigation of the solution of a multidimensional integral equation. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1967, *no.* 6, 8-17. (M. Tvrdý) 44 #746

A nonlinear operator equation of Volterra type on the half axis. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1968, *no.* 5, 73-80. (V. Zizler) 46 #746

One-sided estimates in the conditions for the study of solutions of the limit Cauchy problem. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1969, *no.* 2, 31-37. (K. Goebel) 44 #4336

On the theory of the Cauchy limit problem for differential equations with unbounded operator in a Banach space. (Russian) *Differencial´nye Uravnenija* 5 (1969), 1431-1437. (D. Wexler) 40 #7609

(with Mamedov, Ja. D.) On the theory of the solutions of nonlinear Volterra operator equations on the half axis. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 568-575. (J. Daneš) 44 #2108

Sarfatti, Gad B.

* Mathematical terminology in Hebrew scientific literature of the Middle Ages. (English and Hebrew) *Magnes Press, The Hebrew University, Jerusalem*, 1968. xiv + 265 *pp.* (B. Goldstein) 42 #5756

Sargan, John D.

Three-stage least-squares and full maximum likelihood estimates. *Econometrica* 32 (1964), 77-81. (A. C. Cohen) 31 #5279

(with Mikhail, W. M.) A general approximation to the distribution of instrumental variables estimates. *Econometrica* 39 (1971), 131-169. (P. Fortunati) 43 #4169

Sargent, R. W. H.

(with Murtagh, B. A.) A constrained minimization method with quadratic convergence. *Optimization (Sympos., Univ. Keele, Keele, 1968), pp.* 215-245. *Academic Press, London*, 1969. (A. J. Lohwater) 44 #1442

(with Murtagh, B. A.) Computational experience with quadratically convergent minimisation methods. *Comput. J.* 13 (1970), 185-194. (J. T. Howson, Jr.) 42 #1309

Sargent, W. L. C.

On compact matrix transformations between sectionally bounded BK-spaces. *J. London Math. Soc.* 41 (1966), 79-87. (G. Goes) 32 #6204

Sargsjan, I. S.

(with Levitan, B. M.) On the continuation of solutions of the one-dimensional Dirac system. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1241-1244. (C. Corduneanu) 33 #4362

A theorem on the completeness of the eigenfunctions of the generalized Direc system. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 42 (1966), *no.* 2, 77-82. (L. de Branges) 33 #4724

Summation of derivatives of the spectral matrix of a one-dimensional Dirac system. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 42 (1966), *no.* 4, 193-197. (R. E. L. Turner) 34 #4954

A theorem on equisummability of differentiated expansions in eigenfunctions of a one-dimensional Dirac system. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 42 (1966), *no.* 5, 262-267. (L. de Branges) 34 #412

The asymptotic behavior of the spectral matrix of a one-dimensional Dirac system. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1058-1061. (J. Mathews) 33 #4366

Decomposition into a series of eigenfunctions of a one-dimensional Dirac system. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1292-1295. (J. Mathews) 33 #2862

Solution of the Cauchy problem for a one-dimensional Dirac system. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 1 (1966), *no.* 6, 392-436. (L. de Branges) 34 #7944

Asymptotic behavior of the spectral function and expansion in eigenfunctions of a one-dimensional Dirac system. (Russian. English and Armenian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 3, 155-194. (H. Baumgärtel) 35 #6901

Sargsyan, I. S. See Sargsjan, I. S.

Sarhan, Ahmed E.

(with Greenberg, B. G.) Correction to: "Estimation of location and scale parameters by order statistics from singly and doubly censored samples. I. The normal distribution up to samples of size 10". *Ann. Math. Statist.* 40 (1969), 325. (Editors) 38 #2874

Saridis, G. N.

(with Fu, K. S.; Nikolic, Z. J.) Stochastic approximation algorithms for system identification, estimation, and decomposition of mixtures. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 374-383. *Univ. of Illinois, Urbana, Ill.*, 1967. (Authors' summary) 41 #8138

Learning applied to successive approximation algorithms. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 1007-1013. *Inst. Electr. Electron. Engineers, New York*, 1968. (Author's summary) 40 #1010

(with Stein, G.) A parameter-adaptive control technique. (French, German and Russian summaries) *Automatica—J. IFAC* 5 (1969), 731-739. (D. D. Sworder) 42 #4298

Šarikadze, Dz. V.

Stationary flows of a viscous conducting fluid along a porous tube of constant cross-section. (Russian. Georgian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964), 121-133. (Şt. I. Gheorghiţă) 31 #5438

The two-dimensional nonstationary flow of a weakly conducting fluid in a magnetic field. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 29-32. (N. Cristescu) 42 #8770

Sario, Leo

General value distribution theory. *Nagoya Math. J.* 23 (1963), 213-229. (R. Accola) 29 #6010

An integral equation and a general existence theorem for harmonic functions. *Comment. Math. Helv.* 38 (1964), 284-292. (R. Accola) 29 #2386

(with Schiffer, Menahem; Glasner, Moses) The span and principal functions in Riemannian spaces. *J. Analyse Math.* 15 (1965), 115-134. (T. Klotz) 32 #1655

Classification of locally Euclidean spaces. *Nagoya Math. J.* 25 (1965), 87-111. (E. Solomencev (RŽMat 1967 #5 B142)) 35 #1770

(with Fukuda, Noriko) Harmonic functions with given values and minimum norms in Riemannian spaces. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 270-273. (T. Klotz) 34 #5033

(with Milnor, Tilla Klotz) Existence of complete minimal surfaces of arbitrary connectivity and genus. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 42-44. (R. Osserman) 31 #2665

A theorem on mappings into Riemann surfaces of infinite genus. *Trans. Amer. Math. Soc.* 117 (1965), 276-284. (L. V. Ahlfors) 30 #3973

(with Weill, Georges) Normal operators and uniformly elliptic self-adjoint partial differential equations. *Trans. Amer. Math. Soc.* 120 (1965), 225-235. (C. B. Morrey, Jr.) 33 #402

(with Noshiro, Kiyoshi) Integrated forms derived from non-integrated forms of value distribution theorems under analytic and quasi-conformal mappings. *Festschr. Gedächtnisfeier K. Weierstrass, pp.* 319-324. *Westdeutscher Verlag, Cologne*, 1966. (L. V. Ahlfors) 33 #4285

* (with Noshiro, Kiyoshi) Value distribution theory. In collaboration with Tadashi Kuroda, Kikuji Matsumoto and Mitsuru Nakai. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London*, 1966. xi + 236 *pp.* (B. Rodin) 35 #6833

(with Nakai, Mitsuru) Normal operators, linear liftings, and the Wiener compactification. *Bull. Amer. Math. Soc.* 72 (1966), 947-949. (G. Springer) 34 #6076

(with Nakai, Mitsuru) Construction of principal functions by orthogonal projection. *Canad. J. Math.* 18 (1966), 887-896. (B. Rodin) 34 #2881

(with Milnor, Tilla Klotz) Gaussian mapping of arbitrary minimal surfaces. *J. Analyse Math.* 17 (1966), 209-217. (A. Gray) 36 #3250 (with Rodin, B.) Existence of mappings into noncompact Riemann surfaces. *J. Analyse Math.* 17 (1966), 219-223. (M. H. Heins) 35 #4408

(with Nakai, Mitsuru) Harmonic semifields. *Proc. Nat. Acad. Sci. U.S.A.* 56 (1966), 1674-1675. (K. T. Hahn) 35 #935

(with Larsen, Kenneth; Nakai, Mitsuru) Formes harmoniques principales sur un espace de Riemann. *Bull. Sci. Math.* (2) 91 (1967), 33-37. (E. A. Feldman) 37 #3600

(with Nakai, Mitsuru) Harmonic fields with given boundary behavior in Riemannian spaces. *J. Analyse Math.* 18 (1967), 245-257. (M. Glasner) 35 #2245

(with Rodin, Burton) Convergence of normal operators. *Kōdai Math. Sem. Rep.* 19 (1967), 165-173. (G. G. Weill) 36 #1641

(with Nakai, Mitsuru) Classification and deformation of Riemannian spaces. *Math. Scand.* 20 (1967), 193-208. (L. Bungart) 36 #3378

(with Nakai, Mitsuru) Border reduction in existence problems of harmonic forms. *Nagoya Math. J.* 29 (1967), 137-143. (E. A. Feldman) 37 #3599

(with Nakai, Mitsuru) Completeness and function-theoretic degeneracy of Riemannian spaces. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 29-31. (E. A. Feldman) 36 #4583

(with Nakai, Mitsuru) General principal forms imitating locally square integrable forms. *Proc. Nat. Acad. Sci. U.S.A.* 58 (1967), 1838-1839. (M. Glasner) 36 #4483

* (with Rodin, Burton) Principal functions. In collaboration with Mitsuru Nakai. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1968. xviii + 347 *pp.* (Albert Marden) 37 #5378

(with Nakai, Mitsuru) A parabolic Riemannian ball. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 341-349. *Amer. Math. Soc., Providence, R. I.,* 1968. (W. H. Ow) 38 #2703

(with Nakai, Mitsuru) Principal fields, semifields and forms on Riemannian spaces. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 350-359. *Amer. Math. Soc., Providence, R. I.,* 1968. (M. Glasner) 38 #2704

(with Nakai, Mitsuru) Point norms in the construction of harmonic forms. *Pacific J. Math.* 25 (1968), 325-329. (K. T. Hahn) 38 #637

* (with Oikawa, K.) Capacity functions. Die Grundlehren der mathematischen Wissenschaften, Band 149. *Springer-Verlag New York Inc., New York,* 1969. xvii + 361 *pp.* (Alexander Dinghas) 40 #7441

* (with Nakai, M.) Classification theory of Riemann surfaces. Die Grundlehren der mathematischen Wissenschaften, Band 164. *Springer-Verlag, New York-Berlin,* 1970. xx + 446 *pp.* (H. Wu) 41 #8660

(with Nakai, Mitsuru) Continuity of mappings of vector lattices with norms and seminorms. *Kōdai Math. Sem. Rep.* 22 (1970), 473-479. (W. H. Ow) 43 #7909

(with Nakai, Mitsuru) A new operator for elliptic equations, and the P-compactification for $\Delta u = Pu$. *Math. Ann.* 189 (1970), 242-256. (M. Glasner) 43 #5049

(with Kwon, Y. K.) The P-singular point of the P-compactification for $\Delta u = Pu$. *Bull. Amer. Math. Soc.* 77 (1971), 128-133. (M. Goldstein) 42 #2021

(with Nakai, M.) Biharmonic classification of Riemannian manifolds. *Bull. Amer. Math. Soc.* 77 (1971), 432-436. (M. Goldstein) 43 #3965

(with Kwon, Y. K.; Schiff, J.) The P-harmonic boundary and energy-finite solutions of $\Delta u = Pu$. *Nagoya Math. J.* 42 (1971), 31-41. (W. H. Ow) 44 #5892

(with Kwon, Y. K.; Schiff, J.) Bounded energy-finite solutions of $\Delta u = Pu$ on a Riemannian manifold. *Nagoya Math. J.* 42 (1971), 95-108. (W. H. Ow) 44 #4689

(with Nakai, Mitsuru) Behavior of Green lines at the Kuramochi boundary of a Riemann surface. *Pacific J. Math.* 36 (1971), 447-455. (H. Wu) 43 #3441

(with Nakai, Mitsuru) Quasiharmonic classification of Riemannian manifolds. *Proc. Amer. Math. Soc.* 31 (1972), 165-169. (M. Goldstein) 44 #4692

Šaripov, Š. R.

(with Latipov, H. R.) A method for the global study of the equation $dy/dx = (Q_k(x,y) + Q_n(x,y))/(P_k(x,y) + P_n(x,y))$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 98-103. (W. A. Coppel) 30 #1278

(with Latipov, H. R.) The coexistence of singular points of the equation $dy/dx = (b_{10}x + b_{01}y + Q_n(x,y))/(a_{10}x + a_{01}y + P_n(x,y))$ in the entire plane. (Russian) *Trudy Samarkand. Gos. Univ. (N.S.) Vyp.* 144 (1964), 63-75. (B. S. Popov) 35 #6912

The distribution of singular points on the equator of the Poincaré sphere. (Russian) *Trudy Samarkand. Gos. Univ. (N.S.) Vyp.* 144 (1964), 89-92. (M. Ráb) 35 #5700

A study of global characteristics. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1(44), 180-183. (W. A. Coppel) 30 #3260

Some general theorems on the number of saddle points and anti-saddle points. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 104-109. (M. Bertolino) 35 #6906

The number of exceptional directions and singular lines. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 8 (63), 94-99. (M. Bertolino) 36 #465

(with Baĭramov, S.) The simultaneous existence of exceptional directions. (Russian) *Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk* 1968, *no.* 3, 9-13. (M. Bertolino) 37 #4326

The behavior of integral curves in the infinite part of space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 108-112. (RŽMat 1968 #10 B282) 39 #1732

(with Mamašev, S. H.) The exceptional directions of a certain system of three differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 3 (106), 114-117. (M. Ráb) 44 #4281

Sarkadi, Károly

(with Bánkövi, György) 5/9 replication of a 3^4 fractorial experiment. (Hungarian. Russian and English summaries) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 7 (1962), 509-536 (1963). 29 #706

Prüfung des Verteilungstypes. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1964, *no.* 4, 109-111. (Editors) 32 #553

On testing for normality. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 373-387. *Univ. California Press, Berkeley, Calif.,* 1967. (I. Vincze) 35 #6303

Estimation after selection. *Studia Sci. Math. Hungar.* 2 (1967), 341-350. (A. C. Cohen) 36 #6051

(See also Studies in mathematical statistics: Theory and applications, 37 #2346)

Some remarks on the estimation of fraction defective and reliability in the case of normal distribution. *Studies in Mathematical Statistics: Theory and Applications, pp.* 133-137. *Akad. Kiadó, Budapest,* 1968. (L. A. Aroian) 37 #3715

An extension of Chebyshev's inequality. *Zastos. Mat.* 10 (1969), 143-153. (E. H. Lehman, Jr.) 39 #3552 (E)

Corrigendum to: "An extension of Chebyshev's inequality". *Zastos. Mat.* 11 (1969/70), 119. (Editors) 40 #3595

Sarkar, B. P.

(with Adhikari, A. K.) Distribution of most significant digit in certain functions whose arguments are random variables. *Sankhyā Ser. B* 30 (1968), 47-58. (S. Kotz) 38 #5262

Sarkar, Pranab Kumar

(with Mukherjee, Triptimoy) On graphical studies of PEN-IM sets of Boolean functions and their minimizations. I. *Internat. J. Control* (1) 1 (1965), 101-130. (J. P. Roth) 33 #7204

(with Mukherjee, Triptimoy) On graphical studies of PEN-IM sets of Boolean functions and their minimizations. II. *Internat. J. Control* (1) 1 (1965), 131-155. (J. P. Roth) 33 #7205

(with Mukherjee, Triptimoy) On connectedness and trees of an N-graph. *Internat. J. Control* (1) 4 (1966), 465-498. (I. T. Frisch) 35 #2785

Sarkar, R.

Rigorous static solution, corresponding to a particular form of the fundamental tensor, in Schrödinger's unified field theory. *J. Math. Mech.* 14 (1965), 183-193. (J. Charles-Renaudie) 30 #4567

On solutions of Schrödinger's unified field equations corresponding to a particular form of the fundamental non-symmetric tensor. *Tensor (N.S.)* 17 (1966), 227-237. (R. L. Ingraham) 34 #3978

Sarkar, S. K.

Disturbances in a semi-infinite viscoelastic medium due to transient tangential force on the plane boundary. *Indian J. Mech. Math.* 2 (1964), 28-29. (Author's summary) 30 #1676

Sarkar, Shib Sankar

On the spur of the product of Dirac matrices. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 26 (1969), 239-246. (Author's summary) 40 #1088

Sarker, A. Q.

The Regge asymptotic representation of the scattering amplitude below the elastic threshold. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 1298-1311. (A. C. Hearn) 30 #4508

(with Chan, C. H.) Electromagnetic mass corrections in the SU(6) symmetry. *Phys. Rev. Lett.* 13 (1964), 731-733. (S. L. Glashow) 31 #3089

(with Chan, C. H.) Sum rules for coupling constants in broken SU(6) symmetry. Phys. Rev. (2) 139 (1965), B626-B629. (Authors' summary) 32 #3599

Šarkezi, A. See Sárközi, András.

Sarkhel, D. N.

On metric density of functions. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 965-976. (F. Brooks) 44 #4155

Sarkisjan, S. C.

Properties of solutions of Cauchy-Riemann systems with quadratic admixtures. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 41 (1965), 10-13. (J. F. Heyda) 33 #6114

Sarkisjan, V. S.

The bending of non-orthotropic compound prismatic rods. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 39 (1964), 207-216. (Witold Nowacki) 30 #5558

On the solution of the problem of the bending of anisotropic (non-orthotropic) plates on an elastic base. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 2, 65-79. (R. P. Nordgren) 29 #1798

(with Movsisjan, L. A.) On the solution of the problem of free vibrations of anisotropic plates. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 4, 43-50. (J. Murzewski) 30 #765

The asymptotic convergence of the small parameter method in the solution of the problem of long nonorthotropic fastened plates. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Meh.* 22 (1969), *no.* 5, 16-24. (C. I. Borş) 44 #2399

derSarkissian, M. See DerSarkissian, M.

Šarkova, N. V.

An application of the method of oscillating functions to an approximate solution of initial and boundary-value problems for non-linear, second-order differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1958, *no.* 3(4) 251-255. (W. S. Loud) 30 #4013

An approximate solution by the method of oscillating functions for differential equations with retarded argument. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 85-102. (W. S. Loud) 31 #2472

An approximate solution by the method of oscillating functions for integro-differential equations with retarded argument. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 103-107. (W. S. Loud) 31 #2473

An approximate solution by the method of oscillating functions of the boundary-value problems for linear differential equations with deviating argument. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 5 (60), 120-127. (M. Bertolino) 35 #4542

Approximate solution of integro-differential equations with retarded argument by the method of oscillating functions. (Russian) *Differencial′nye Uravnenija* 6 (1970), 1418-1423. (L. J. Grimm) 44 #5588

Šarkovs′kiĭ, O. M.

Fixed points and the center of a continuous mapping of the line into itself. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1964, 865-868. (Author's summary) 29 #2467

On attracting and attracted sets. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1036-1038. (A. Mostowski) 32 #6419

Continuous mapping on a set of ω-limit points. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 1407-1410. (Author's summary) 33 #1847

On cycles and the structure of a continuous mapping. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 3, 104-111. (H. Fast) 32 #4213

A classification of fixed points. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 5, 80-95. (D. G. Bourgin) 33 #4915

(with Kenžegulov, H. K.) On properties of the set of limit points of an iterative sequence of a continuous function. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 343-348. (S. Marcus) 33 #7464

Partially ordered system of attracting sets. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1276-1278. (A. Mostowski) 35 #311

The set of convergence of one-dimensional iterations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 866-870. (Author's summary) 33 #4202

The behavior of the transformation in the neighborhood of an attracting set. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 2, 60-83. (A. Lelek) 35 #3649

Continuous mapping on the limit points of an iteration sequence. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 5, 127-130. (M. W. Kuczma) 34 #6732

On a theorem of G. D. Birkhoff. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 429-432. (Author's summary) 35 #3646

(with Kasperov, V. N.) The set of attraction of periodic points. (Russian) *Trudy Sem. Mat. Fiz. Nelineĭn. Koleban.* 1 (1968), *vyp.* 2, 126-129. (J. Jarník) 43 #6547

Attracting sets containing no cycles. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 136-142. (A. Lelek) 37 #908

The center of a structurally stable dynamical system. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 5, 717-719. (D. Wexler) 38 #4781

(with Peljuh, G. P.) The existence and uniqueness of the solutions of a certain class of functional equations. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 790-793, 859. (Authors' summary) 44 #676

Sárközi, András

Über reduzible Folgen. *Acta Arith.* 10 (1964/65), 399-408. (B. Volkmann) 31 #3398

(with Komlós, János; Szemerédi, Endre) On sums of powers of complex numbers. (Hungarian. Russian and English summaries) *Mat. Lapok* 15 (1964), 337-347. (Authors' summary) 34 #2534

(with Szemerédi, E.) Über ein Problem von Erdős und Moser. *Acta Arith.* 11 (1965), 205-208. (P. Erdős) 32 #102

(with Szemerédi, Endre) On the sequence of squares. (Hungarian) *Mat. Lapok* 16 (1965), 76-85. (P. Erdős) 34 #1294

(with Erdős, P.; Szemerédi, E.) On the divisibility properties of sequences of integers. I. *Acta Arith.* 11 (1966), 411-418. (J. Kubilius) 34 #5791

(with Erdős, P.; Szemerédi, E.) On the solvability of the equations $[a_i, a_j] = a_r$ and $(a_i', a_j') = a_r'$ in sequences of positive density. *J. Math. Anal. Appl.* 15 (1966), 60-64. (T. M. Apostol) 33 #4035

(with Erdős, P.; Szemerédi, E.) On divisibility properties of sequences of integers. *Studia Sci. Math. Hungar.* 1 (1966), 431-435. (S. Knapowski) 34 #4233

(with Erdős, P.; Szemerédi, E.) On the divisibility properties of sequences of integers. II. *Acta Arith.* 14 (1967/68), 1-12. (J. Kubilius) 37 #2717

(with Erdős, P.; Szemerédi, Endre) The solvability of certain equations in dense sequences of integers. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 541-544. (B. Volkmann) 37 #2716

(with Erdős, P.; Szemerédi, E.) On a theorem of Behrend. *J. Austral. Math. Soc.* 7 (1967), 9-16. (N. G. de Bruijn) 35 #148

(with Erdős, P.; Szemerédi, E.) On an extremal problem concerning primitive sequences. *J. London Math. Soc.* 42 (1967), 484-488. (N. G. de Bruijn) 36 #1412

(with Erdős, P.; Szemerédi, E.) On the solvability of certain equations in sequences of positive upper logarithmic density. *J. London Math. Soc.* 43 (1968), 71-78. (T. M. Apostol) 37 #183

(with Erdős, P.; Szemerédi, E.) Über Folgen ganzer Zahlen. *Number Theory and Analysis (Papers in Honor of Edmund Landau)*, *pp.* 77-86. *Plenum, New York*, 1969. (B. Volkmann) 41 #8372

(with Erdős, P.; Szemerédi, E.) On some extremal properties of sequences of integers. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 131-135. (I. Niven) 41 #5326

(with Erdős, P.; Szemerédi, E.) On divisibility properties of sequences of integers. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen,* 1968*)*, *pp.* 35-49. *North-Holland, Amsterdam*, 1970. (J. Kubilius) 43 #4790

(with Erdős, P.) On the divisibility properties of sequences of integers. *Proc. London Math. Soc.* (3) 21 (1970), 97-101. (I. Niven) 42 #222

Sárközy, András. See Sárközi, András.

Šarl′e, K. See Charlier, C. V. L.

Sarlos, G.

(with Burnand, G.) Determination of the domain of stability. *J. Math. Anal. Appl.* 23 (1968), 714-722. (J. E. Marsden) 37 #4358

Sarlóska, Ernö

János Bolyai, the soldier. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 341-387 (34 ***plates***) (Editors) 33 #5438

Sarluy, P. H. A.

(with Broer, L. J. F.) On simple waves in non-linear dielectric media. *Physica* 30 (1964), 1421-1432. (H. Weitzner) 31 #2959

Sarma, Debabrata

(with Choudhury, A. K.; Das, Sunil Ranjan) A method for testing and realization of threshold functions through classification of inequalities. *Internat. J. Control* (1) 4 (1966), 515-547. (M. A. Harrison) 35 #1409

(with Choudhury, A. K.) Decomposition of Boolean function and two-realizability. *Internat. J. Control* (1) 8 (1968), 375-392. (M. R. Garey) 43 #8450

(with Basu, D.; Ghosh, S.; Choudhury, A. K.) Realization of Boolean functions with a large number of unspecified states by a single threshold logic element. *Internat. J. Control* (1) 10 (1969), 559-571. (Authors' summary) 40 #4010

Sarma, G. N.

A general theory of unsteady compressible boundary layers with and without suction or injection. *Proc. Cambridge Philos. Soc.* 61 (1965), 795-807. (S. H. Lam) 31 #2923

Unified theory for the solutions of the unsteady thermal boundary-layer equation. *Proc. Cambridge Philos. Soc.* 61 (1965), 809-825. (S. H. Lam) 31 #2924

Solutions of unsteady compressible boundary-layer equations. *Proc. Cambridge Philos. Soc.* 62 (1966), 511-518. (R. Manohar) 33 #5205

Sarma, I. G.

(with Ragade, R. K.) Some considerations in formulating optimal control problems as differential games. *Internat. J. Control* (1) 4 (1966), 265-279. (L. D. Berkovitz) 34 #8849

(with Pai, M. A.; Viswanathan, R.) A note on the transformation from Schwarz to Jordan canonical form. *IEEE Trans. Automatic Control* AC-13 (1968), 310-311. 38 #3284b

(with Pai, M. A.; Viswanathan, R.) On the transformation to Schwarz canonical form. *IEEE Trans. Automatic Control* AC-13 (1968), 311-312. 38 #3284c

(with Ragade, R. K.) A note on controllability, observability and sufficient coordinates in linear differential games. *Internat. J. Control* (1) 10 (1969), 331-335. 39 #7959 (with Ragade, R. K.; Prasad, U. R.) Necessary conditions for optimal strategies in a class of noncooperative *N*-person differential games. *SIAM J. Control* 7 (1969), 637-644. (M. D. Ciletti) 42 #5654

Sarma, K. S.

Some problems in finite strains with perturbation constant. V. (Russian and Romanian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 9(13) (1963), *no.* 3-4, 81-84. (B. R. Seth) 31 #2864

Sarma, V. L. N.

A generalisation of Eberlein's integral over function space. *Trans. Amer. Math. Soc.* 121 (1966), 52-61. (W. A. J. Luxemburg) 33 #1714

Eberlein measure adn mechanical quadrature formulae. I. Basic theory. *Math. Comp.* 22 (1968), 607-616. (From the author's summary) 40 #6773

(with Stroud, A. H.) Eberlein measure and mechanical quadrature formulae. II. Numerical results. *Math. Comp.* 23 (1969), 781-784. (Authors' summary) 41 #2929

Sarma, V. V. S.

(with Singh, Sahjendra, N.) Controllability and sensitivity. *IEEE Trans. Automatic Control* AC-14 (1969), 782-783. (Authors' summary) 42 #8989

(with Singh, Sahjendra, N.; Deekshatulu, B. L.) Game theoretic approach to minimum-effort control of second-order system. *Internat. J. Control* (1) 9 (1969), 569-576. (Authors' summary) 39 #3869

(with Singh, Sahjendra, N.; Deekshatulu, B. L.) A differential game problem—plant with zeros in transfer function. *Internat. J. Control* (1) 9 (1969), 577-584. (Authors' summary) 39 #3870

(with Singh, Sahjendra N.; Deekshatulu, B. L.) Singular optimal control in the presence of uncertainty—a game theoretic approach. *Internat. J. Control* (1) 9 (1969), 585-595. (Authors' summary) 39 #3871

Comments on "On the optimal angular velocity control of asymmetrical space vehicles". *IEEE Trans. Automatic Control* AC-15 (1970), 278-279. (D. F. Lawden) 43 #3026

Sarma, Y. R. See Ramakrishna Sarma, Y.

Šarman, S.

Bemerkungen zu inversen Eigenwertproblemen. (English summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 207-215. (W. C. Rheinboldt) 40 #1025

Sarmanov, I. O.

On the Lyapunov theorem for sums of weakly dependent random variables. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964 *no.* 3 (40), 123-130. (G. Marinescu) 30 #602

A generalized symmetric gamma-correlation. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1279-1281. (R. Cuppens) 37 #4850

A gamma-correlation process and its properties. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 30-32. (J. Ławrynowicz) 41 #4677

The approximate computation of the coefficient of correlation between functions of dependent random variables. (Russian) *Mat. Zametki* 7 (1970), 617-625. (G. K. Eagleson) 41 #9407

Sarmanov, O. V.

On a method of investigating stationary Markov processes. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp.* 149-151. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (M. R. Leadbetter) 32 #3133

(with Zaharov, V. K.) Consolidation of states in a Markov chain and stationary variation of the spectrum. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 762-764. (K. Krickeberg) 30 #5367

The characteristic coefficients of random distributions. *Dokl. Akad. Nauk SSSR* 162 (1965), 281-284. (E. Lukacs) 31 #4067

On the method of characteristic coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 1081-1084. (R. F. Gundy) 33 #6674

(with Smirnov, N. V.; Zaharov, V. K.) A local limit theorem for the number of transitions in a Markov chain and its applications. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1238-1241. (J. L. Snell) 33 #3339

Generalized normal correlation and two-dimensional Fréchet classes. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 32-35. (E. Lukacs) 33 #4969

(with Zaharov, V. K.) A combinatorial problem of N. V. Smirnov. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 530-532. (F. L. Spitzer) 36 #2188

Remarks on uncorrelated Gaussian dependent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 141-143. (Soren Johansen) 35 #3716

(with Bratoeva, Z. N.) Probabilistic properties of bilinear expansions in Hermite polynomials. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 520-531. (R. Cuppens) 35 #7372

(with Zaharov, V. K.) The law of distribution of the number of runs in a homogeneous Markov chain. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 526-528. (J. L. Snell) 37 #3653

(with Zaharov, V. K.) Asymptotic methods of investigation of the intersections of a Gaussian Markov process with a prescribed level. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 600-615. (I. Cuculescu) 40 #3608

(with Zaharov, V. K.; Sevast′janov, B. A.) A sequential χ^2 test. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 444-460. (G. K. Eagleson) 41 #6364

(with Kolmogorov, A. N.; Linnik, Ju. V.; Prohorov, Ju. V.) Sergeĭ Natanovič Bernšteĭn. (Russian) *Teor. Verojatnost. i Primenen.* 14 (1969), 113-121. *(1 plate)* (Editors) 39 5303

(See also Smirnov, N. V., 42 #30)

A certain property of the correlation coefficient. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 562-563. (G. K. Eagleson) 43 #4164

Hypothesis testing on parameters of normal correlation. (Russian) *Trudy Mat. Inst. Steklov.* 111 (1970), 258-262. (T. Nemetz) 44 #7676

(with Sevast′janov, B. A.; Tarakanov, V. E.) Certain combinatorial identities. (Russian) *Mat. Zametki* 11 (1972), 121-127. (J. B. Roberts) 44 #6512

Sarmant, Marie-Claude

Prolongement de la fonction exponentielle en dehors de son cercle de convergence. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A123-A125. (O. F. G. Schilling) 39 #6860

Fonctions automorphes dans un corps valué non archimédien. *Séminaire Delange-Pisot-Poitou:* 1969/70, *Théorie des Nombres, Fasc.* 1, *Exp.* 11, 8 *pp. Secrétariat mathématique, Paris,*1970. (F. van der Blij) 44 #213

Sarmin, È. N.

On the application of the method of straight lines for solving boundary value problems for certain non self-conjugate two-dimensional elliptic equations of the second order. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 945-949. (Jiří Kopáček) 33 #5146

Särndal, Carl-Erik

* Information from censored samples. *Almqvist & Wiksell, Stockholm-Götenborg-Uppsala,* 1962. 120 *pp.* (C. Hayashi) 29 #6600

A unified derivation of some non-parametric distributions. *J. Amer. Statist. Assoc.* 59 (1964), 1042-1053. (K. Miyasawa) 31 #840

Estimation of the parameters of the gamma distribution by sample quantiles. *Technometrics* 6 (1964), 405-414. 32 #1804

A theorem on rank orders for two censored samples. *Ann. Math. Statist.* 36 (1965), 316-321. (I. Vincze) 30 #2624

Derivation of a class of frequency distributions via Bayes's theorem. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 290-300. (Author's summary) 34 #5191

Distribution pairs and equi-probable sequences. *Statistica Neerlandica* 21 (1967), 69-79. (Benjamin Epstein) 35 #7386

Some aspects of Carnap's theory of inductive inference. *British J. Philos. Sci.* 19 (1968), 225-246. (R. J. Buehler) 38 #6691

The use of a stratification variable in estimation by proportional stratified sampling. *J. Amer. Statist. Assoc.* 63 (1968), 1310-1320. (I. Guttman) 38 #3991

A class of explicata for "Information" and "weight of evidence". (French summary) *Rev. Inst. Internat. Statist.* 38 (1970), 223-235. (S. Kullback) 42 #7003

Saroja, D.

(with Srinivasa Rao, K. N.) The resolution into minimal ideals of the enveloping algebra of the Lie algebra of the rotation group in four dimensions with spin 3/2. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 239-250. (Authors' summary) 40 #3822

Šaronov, V. I.

(with Zamov, N. K.) A certain algorithm for finding a full amplification of sequences in propositional calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 67-70. (G. Minc (RŽMat 1969 #2 A119)) 44 #1573

(with Zamov, N. K.) A certain algorithm of search for an inference in a cellular calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 71-75. (G. Minc (RŽMat 1969 #2 A118)) 44 #1574

(with Zamov, N. K.) A certain class of strategies used in theorem proving by the resolution method. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 16 (1969), 54-64. (L. W. Szczerba) 42 #2715

(with Zamov, N. K.) Amplifications of formulae of predicate calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 130 (1970), *kn.* 3, 54-59. (J. Waszkiewicz) 44 #2573

Šarovatov, K. V.

* (with Korobeĭnikov, V. P.; Čuškin, P. I.) Таблицы газодинамичесних функций начальной стадии точечного взрыва. (Russian) [Tables of gas dynamical functions of the initial state of a point explosion] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1963. 59 *pp.* 32 #3408

Šarovskiĭ, A. A.

A certain elliptic second order equation with discontinuous coefficients. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 56-62. (F. Barański) 41 #7270

Sarra, Mariangela

(with Rolando, Magda) Una funzione di corrente singolare per lo studio dei flussi transonici attorno a profili alari doppiamente simmetrici. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 383-390. (D. Vallée) 29 #4374

(with Rolando, Magda) Studio di alcune funzioni di corrente per la determinazione di flussi transonici attorno a profili alari. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 1061-1067. (J. P. Guiraud) 32 #8643

Sarris, V.

(with Lienert, G. A.) Eine sequentielle Modifikation eines nicht-parametrischen Trendtests. *Biometrische Z.* 10 (1968), 133-147. (J. R. Blum) 44 #1151

Šaršanov, A. A.

The analytic iteration of functions of two variables. (Russian) *Dokl. Akad. Nauk SSSR* 143 (1962), 551-554. (I. N. Baker) 30 #5086

On the theory of linear differential equations with periodic coefficients. (Russian) *Math. Phys.* (1966) (*Russian*), *pp.* 172-193. *Naukova Dumka, Kiev,* 1966. (M. Ráb) 34 #4612

On the definition of the capture regions in the case of a system of linear differential equations with periodic coefficients. (Russian) *Differencial'nye Uravnenija* 3 (1967), 589-600. (K. W. Chang) 35 #4502

(with Myškis, A. D.) The construction of a family of integral lines situated in a prescribed region. (Russian) *Differencial'nye Uravnenija* 3 (1967), 852-856. (W. A. Coppel) 35 #4489

(with Myškis, A. D.) The construction of the set of initial points of the integral lines contained in a half-plane for a linear Hamiltonian system of two equations with periodic coefficients. (Russian) *Differencial'nye Uravnenija* 4 (1968), 547-550. (Editors) 37 #6519

The functionals for a certain type of optimal problems. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 427-430. (Editors) 38 #3063

Sarti, E.

(with Bertoni, G.; Bonivento, C.) A graphical method for investigating the absolute stability of time-varying systems. (Italian summary) *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (12) 7 (1969/70), *fasc.* 1, 54-71. (J. Willems) 44 #2509

Sartorius von Walterhausen, Wolfgang

* Gauss zum Gedächtnis. *Sändig Verlag, Wiesbaden,* 1965. 108 *pp.* (Editors) 32 #1097

Saruis, A. M.

(with Perey, F. G.) Effects of non-locality in off-diagonal potentials. *Nuclear Phys.* 70 (1965), 225-235. (D. S. Saxon) 32 #5235a

Šarupič, S. G.

A certain block solution for systems of linear equations. (Russian) *Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot.* 1969, *no.* 1, 28-33. (F. Szidarovszky) 43 #5707

Some generalizations in the area of group balancing. (Russian) *Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot.* 1970, *no.* 3, 23-33. (A. S. Householder) 44 #6140

Saryčev, V. A.

Stability conditions for the system of gravitational stabilization of artificial satellites with gyrodamping. (Russian. English and French summaries) *Astronaut. Acta* 14 (1969), 299-310. (B. Garfinkel) 44 #2389

Sarymsakoff, T. See Sarymsakov, T. A.

Sarymsakov, H. A.

(with Sarymsakov, T. A.) Topological semifields with a measure. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 6, 24-32. (R. Sikorski) 36 #346

(with Sarymsakov, T. A.; Kučkarov, Ja. H.) An attempt to present the law of large numbers on the basis of topological semifields. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 43 (1967), 67-79. 41 #1106

Sarymsakov, T. A.

A question on boundedness in linear topological spaces. (Russian) *Taškent. Gos. Univ. Naučn. Trudy* 189 (1961), 75-78. (G. H. Berman (RŽMat 1962 #5 B439)) 36 #653

Inhomogeneous Markov chains. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 6 (1961), 194-201. (E. M. Klimko) 34 #3660

Topological semifields and basic concepts of the theory of probability. (Russian. Uzbek summary) *Dokl. Akad. Nauk UzSSR* 1962, *no.* 8, 5-9. (M. Nevel'son (RŽMat 1967 #11 V5)) 36 #2177

(with Antonovskiĭ, M. Ja.; Boltjanskiĭ, V. G.) Finite-dimensional modules over semifields. (Russian) *Taškent. Gos. Univ. Naučn. Trudy* 208 (1962), 3-29. (S. Ryškov (RŽMat 1964 #2 A369)) 36 #218

* (with Antonovskiĭ, M. Ja.; Boltjanskiĭ, V. G.) Топологические алгебры Буля. (Russian) [Topological Boolean algebras] Topological Semifields, No. 1. *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1963, 132 *pp.* (Edwin Hewitt) 34 #5718

On the general ergodic theory. (Russian) *Dokl. Acad. Nauk SSSR* 159 (1964), 25-27. (Edwin Hewitt) 29 #5979

Short proof of a theorem of A. N. Tihonov. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 172-173. (D. Bushaw) 32 #8100

A proof of a general ergodic theorem. (Russian) *Limit Theorems Statist. Inference (Russian), pp.* 149-153. *Izdat. "Fan", Tashkent,* 1966. (József Szűcs) 35 #4765

(with Sarymsakov, H. A.) Topological semifields with a measure. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 6, 24-32. (R. Sikorski) 36 #346

(with Antonovskiĭ, M. Ja.; Boltjanskiĭ, V. G.) A survey of the theory of topological semifields. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 4 (130), 185-218. (V. Pták) 35 #832

Topological semifields and Markov chains. (Russian) *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 495-517. *Academia, Prague,* 1967. (R. M. Dudley) 35 #6795

(with Sarymsakov, H. A.; Kučkarov, Ja. H.) An attempt to present the law of large numbers on the basis of topological semifields. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 43 (1967), 67-79. 41 #1106

(with Kučkarov, Ja. H.) The law of the iterated logarithm. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 272-274. (K. R. Parthasarathy) 38 #3906

* Топологические полуполя и теория вероятостей. (Russian) [Topological semifields and the theory of probability] *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 131 *pp.* (V. I. Arnautov) 41 #5335

(with Mirzahmedov, M. A.) Stationary processes on topological semifields. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 776-778. (R. G. Laha) 40 #906

(with Kučkarov, Ja. H.) The ergodic principle for a partially semigroup family of operators on topological semifields. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 787-788. (M. M. Day) 44 #3149

(with Kučkarov, Ja. H.; Islamova, H. Ja.) Upper and lower functions for a sequence of independent random variables. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 5, 20-27. (M. I. Jadrenko) 44 #6016

Studies in functional analysis. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 13-17. (Editors) 43 #1802

(with Mirzahmedov, M. A.) Stationary processes on Hilbert spaces over semifields. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 529-530. (R. M. Dudley) 43 #4109

Sas, F. See Szász, Ferenc A.

Sasagawa, Hiroshi

On a covariant analytic vector in an *O-space with boundary. *Res. Rep. Nagaoka Tech. College* 2, 13-20 (1965). (K. Yano) 33 #3317

Certain almost contact hypersurfaces in the almost Tachibanan space. *Res. Rep. Nagaoka Tech. College* 2, 101-113 (1966). (A. G. Walker) 33 #4873

The f-structure induced on the submanifold of an *O-space. *Res. Rep. Nagaoka Tech. College* 2, 183-201 (1966). (S. Kobayashi) 34 #737

On almost complex structures of tangent bundle of an almost contact manifold. *Res. Rep. Nagaoka Tech. College* 3, 117-133 (1967). (K. Yano) 36 #4504

Closed complex hypersurfaces in a K-space. *Res. Rep. Nagaoka Tech. College* 3, 203-211 (1967). (J. K. Shahin) 37 #6885

On complex hypersurface in a K-space of constant curvature. *Res. Rep. Nagaoka Tech. College* 3, 213-218 (1967). (J. K. Shahin) 37 #6886

On totally umbilical submanifolds of a Kählerian manifold. *Res. Rep. Nagaoka Tech. College* 3, 319-327 (1967). (S. Takizawa) 37 #2151

On submanifolds of a Kählerian manifold defined by concircular scalar fields. *Res. Rep. Nagaoka Tech. College* 4, 63-71 (1968). (J. D. Zund) 38 #2715

C-invariant submanifolds in Sasakian manifold with positive curvature. *Res. Rep. Nagaoka Tech. College* 4, 233-239 (1968). (Y. Mutô) 38 #3807

Sasai, Hitoshi

(with Shimemura, Etsujiro) On convergence of approximating solutions of a class of linear optimal control problems of distributed parameter systems. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 3-4, 39-47. (J. Cullum) 41 #9627

(with Shimemura, Etsujiro) On the convergence of approximating solutions for linear distributed parameter optimal control problems. *SIAM J. Control* 9 (1971), 263-273. (A. Pasquali) 44 #8024

Sasakawa, Tatuya

Nonrelativistic scattering theory. *Progr. Theoret. Phys. Suppl. No.* 27 (1963), 1-93. (A. C. T. Wu) 32 #805

(with Tsukamoto, Tatsuo) Symmetry property of the S matrix on the basis of the Jost function method. *Progr. Theoret. Phys.* 34 (1965), 442-454. (V. de Alfaro) 32 #6936

Solution of Schrödinger equation involving time. *J. Mathematical Phys.* 7 (1966), 721-741. (C. H. Wilcox) 33 #1590

Sasaki, Fukashi

Eigenvalues of fermion density matrices. *Phys. Rev.* (2) 138 (1965), B1338-B1342. (A. Lenard) 33 #2320

Sasaki, Morio

Semigroups whose arbitrary subsets containing a definite element are subsemigroups. *Proc. Japan Acad.* 39 (1963), 628-633. (G. B. Preston) 30 #3169

On semigroups of positive integer vectors. *Math. Japon.* 9 (1964), 31-47. (A. Sade) 30 #181

(with Inoue, Reiko) Semigroups whose any subsemigroup contains a definite element. *Proc. Japan Acad.* 40 (1964), 57-58. (E. J. Tully, Jr.) 29 #2314

(with Biggs, R.; Tamura, Takayuki) Non-negative integer valued functions on commutative groups. I. *Proc. Japan Acad.* 41 (1965), 564-569. (Hanna Neumann) 33 #2721

On the isomorphism problem of certain semigroups constructed from indexed groups. *Proc. Japan Acad.* 41 (1965), 763-766. (T. Tamura) 33 #5769

Commutative nonpotent archimedian semigroups with cancellation law. II. *Math. Japon.* 11 (1966), 153-165. (T. Tamura) 35 #6597

On β^*-semigroups. *Annual Rep. Fac. Ed. Univ. Iwate* 29 (1969), *no.* 3, 15-33. (T. Tamura) 41 #1906

Sasaki, Shigeo

(See Kubota, Tadahiko, 36 #3241)

(with Kurita, Minoru; Hsu, Chen-jung) Contact and almost contact structures. (Japanese) *Sûgaku* 16 (1964), 27-41. (K. Yano) 31 #6178

A characterization of contact transformations. *Tôhoku Math. J.* (2) 16 (1964), 285-290. (R. Hermann) 30 #535

On almost contact manifolds. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 128-136. *Nippon Hyoronsha, Tokyo,* 1966. (A. Morimoto) 35 #6075

Sasaki, Takehiko

On some extremal quasiconformal mappings of disc. *Osaka J. Math.* 7 (1970), 527-534. (S. B. Agard) 43 #5031

Sasaki, Yoshio

The involutive symmetry and the number of the finite partially ordered sets. I. *Mem. Ehime Univ. Sect. II Ser. A* 5 (1967), 31-37. (V. S. Krishnan) 39 #4056a

The involutive symmetry and the number of the finite partially ordered sets. II. *Rep. Univ. Electro-Commun. No.* 25 (1968), 59-67. (V. S. Krishnan) 39 #4056b

Sasakura, Nobuo

On some results on the Picard numbers of certain algebraic surfaces. *J. Math. Soc. Japan* 20 (1968), 297-321. (Manfred Herrmann) 37 #4075

Periods of rational forms on certain elliptic surfaces. *J. Math. Soc. Japan* 21 (1969), 638-671. (Y. Nakai) 41 #1731

Sasao, Seiya

On homotopy groups $\pi_{2n}(K^n_m, S^n)$. *Proc. Japan Acad.* 39 (1963), 557-558. (I. M. James) 29 #4058

An example for the theorem of W. Browder. *J. Math. Soc. Japan* 17 (1965), 187-193. (J. Eells) 32 #1726

On homotopy type of certain complexes. *Topology* 3 (1965), 97-102. (E. H. Brown) 30 #1512

On *J*-groups of spaces which are like projective planes. *Proc. Japan Acad.* 42 (1966), 702-704. (I. M. James) 36 #4558

A Milnor conjecture on spin structures. *Proc. Japan Acad.* 44 (1968), 576-578. (K. Lamotke) 39 #976

Homotopy 4-spheres with boundary. *Topology* 7 (1968), 417-427. (M. L. Curtis) 38 #1687

On 12-manifolds of a special kind. *J. Math. Soc. Japan* 21 (1969), 48-53. (C. W. Patty) 38 #3870

(with Ando, Yutaka) KSO-groups for 4-dimensional CW-complexes. *Nagoya Math. J.* 42 (1971), 23-29. (R. L. E. Schwarzenberger) 44 #2226

Sąsiada, E.

(with Fuchs, L.) Note on orderable groups. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 13-17. (W. C. Holland) 30 #3925

(with Cohn, P. M.) An example of a simple radical ring. *J. Algebra* 5 (1967), 373-377. (W. G. Leavitt) 34 #2629

Šašina, M. K.

Asymptotic behavior of the solution of a differential equation with retardation and a small parameter in higher derivative. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 173-181. (W. A. Coppel) 36 #6740

Differential equations with deviating argument and a small parameter at the highest derivative. (Russian) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 5 (1967), 228-232. (L. Pintér) 37 #546

Asymptotics of the solution of equations with deviating argument and a small parameter in the highest derivative. (Russian. English summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 111-123. (M. Zlámal) 35 #5734

Saska, Josef

Linear multiprogramming. (Czech. English summary) *Ekonom.-Mat. Obzor* 4 (1968), 359-373. (From the author's summary) 38 #3035

Šaškin, Ju. A.

Uniqueness and stability theorems for the inverse problem of the logarithmic potential. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 215-226. (M. G. Arsove) 30 #1258

Topological properties of sets connected with approximation theory. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1085-1094. (A. Lelek) 34 #3549

Finitely defined linear operators in spaces of continuous functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 175-180. (Z. Semadeni) 33 #1715

Best approximation by rational functions. (Russian) *C. R. Acad. Bulgare Sci.* 19 (1966), 5-7. (John T. Scheick) 33 #6230

*. Теория приближения в линейных нормированых пространствах. (Russian) [Theory of approximation in linear normed spaces] *Ural. Gos. Univ., Sverdlovsk,* 1967. 50 *pp.* (H. E. Warren) 38 #1458

Interpolation families of functions and imbeddings of sets in Euclidean and projective spaces. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 1030-1032. (A. Lelek) 35 #7320

The Mil′man-Choquet boundary and the theory of approximations. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 95-96. (E. J. Akutowicz) 35 #3343

(with Min′kova, R. M.) The convergence of linear operators of class S_m. (Russian) *Mat. Zametki* 6 (1969), 591-598. (H. E. Warren) 41 #4083

Remarks on the extension of linear functionals. (Russian) *Mathematica (Cluj)* 11(34) (1969), 147-154. (W. Słowikowski) 42 #819

The convergence of nondilating operators. (Russian) *Mathematica (Cluj)* 11(34) (1969), 355-360. (F. Smithies) 42 #871

(with Sobolev, S. L.) Valentin Konstantinovic Ivanov: On his sixtieth birthday. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 2 (146), 237-243 (1 *plate*). (Editors) 39 #1275

Šaškov, V. M.

(with Slugin, S. N.) Combination of some variational methods in a Hilbert module over a series of vector spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 284-292. (W. V. Petryshyn) 34 #8251

Saslow, W. M.

Two classes of Kramers-Kronig sum rules. *Phys. Lett.* 33A (1970), 157-158. (P. Pascual) 44 #7864

Sass, Margo A.

(See Symposium on computer augmentation of human reasoning, 34 #983)

Sassa, Hachirō

On the asymptotic relative efficiency of two tests and the correlation coefficient between their test statistics. (Japanese. English summary) *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 3-7. (Author's summary) 36 #4700

The probability density of a certain statistic in one sample from the double exponential population. (Japanese. English summary) *Bull. Tokyo Gakugei Univ.* (4) 19 (1968), 85-89. (Author's summary) 37 #1004

Sasser, D. W.

Quasi-positive operators. *Pacific J. Math.* 14 (1964), 1029-1037. (H. H. Schaefer) 29 #6322

(with Slater, M. L.) On the inequality $\sum x_iy_i \geq (1/n)\sum x_i\cdot\sum y_i$ and the van der Waerden permanent conjecture. *J. Combinatorial Theory* 3 (1967), 25-33. (D. Ž. Djoković) 36 #190

(with Slater, M. L.) On a generalization of the van der Waerden conjecture. *Portugal. Math.* 28 (1969), 91-95. (Morris Newman) 43 #7440

Sasso, Leonard P., Jr.

A cornucopia of minimal degrees. *J. Symbolic Logic* 35 (1970), 383-388. (T. G. McLaughlin) 44 #69

Sastri, K. S.

(with Srinivasan, J.) Convective hydromagnetic flow between parallel porous walls. *J. Sci. Engrg. Res.* 8 (1964), 1-12. (I. M. Cohen) 30 #4466

Sastri, V. V. Subrahmanya. See Subrahmanya Sastri, V. V.

Sastry, A. N.

(with Katti, S. K.) Biological examples of small expected frequencies and the chi-square test. *Biometrics* 21 (1965), 49-54. 31 #6337

Sastry, K. P. R.

On the generalised type Möbius functions. *Math. Student* 31 (1963), 85-88 (1964). (W. Ljunggren) 29 #3418

Sastry, M. S. Krishna

(with Perisastri, M.) On some diophantine equations. *Math. Student* 33 (1965), 73-76. (B. Stolt) 33 #4006

A model of Euclidean 2-space. *Proc. Amer. Math. Soc.* 28 (1971), 114-118. (Y. Komatu) 44 #1820

Meta-analytic functions. *Trans. Amer. Math. Soc.* 157 (1971), 399-415. (M. O. Gonzalez) 44 #454

Sastry, M. V. Rama. See Rama Sastry, M. V.

Sastry, T.

(with Lakshmikantham, V.; Leela, S.) Converse theorems for conditional stability of motion. *J. Math. Anal. Appl.* 19 (1967), 444-456. (T. A. Burton) 35 #3175

Sastry, U. A.

Heat transfer by laminar forced convection in a pipe of curvilinear polygonal section. *J. Sci. Engrg. Res.* 7 (1963), 281-292. (L. J. Crane) 29 #6739

Torsion of hollow prismatic cylinders. *Boll. Un. Mat. Ital.* (3) 19 (1964), 114-120. (W. D. Kroll) 29 #4276

Sastry, V. A.

(with Srinath, M. D.) Sub-optimal policies for two classes of control. *Internat. J. Control* (1) 3 (1966), 497-512. (Henry Hemres) 34 #8850

Decomposition of the extended Kalman filter. *IEEE Trans. Automatic Control* AC-16 (1971), 260-261. (Author's summary) 44 #2335

Sataev, A. T.

(with Karinskiĭ, S. Ju.) Discontinuous solutions of a slope problem. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1963, *no.* 3, 71-78. (B. S. Popov) 29 #4954

Satake, Ichiro

On compactifications of the quotient spaces for arithmetically defined discontinuous groups. *Ann. of Math.* (2) 72 (1960), 555-580. (I. Pjateckiĭ-Šapiro (RŽMat 1963 #12 A201)) 30 #594

Algebraic groups over p-adic number fields. (Japanese) *Sûgaku* 12 (1960/61), 195-202. (T. Tamagawa) 29 #108

Theory of spherical functions on reductive algebraic groups over p-adic fields. *Inst. Hautes Études Sci. Publ. Math. No.* 18 (1963), 5-69. (T. Ono) 33 #4059

Holomorphic imbeddings of symmetric domains into a Siegel space. *Proc. Conf. Complex Analysis (Minneapolis, 1964), pp.* 40-48. *Springer, Berlin,* 1965. (A. Korányi) 31 #382

Holomorphic imbeddings of symmetric domains into a Siegel space. *Amer. J. Math.* 87 (1965), 425-461. (A. Korányi) 33 #4326

Spherical functions and Ramanujan conjecture. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.,* 1965*), pp.* 258-264. *Amer. Math. Soc., Providence, R. I.,* 1966. (T. Ono) 35 #2830

Symplectic representations of algebraic groups. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.,* 1965*), pp.* 352-357. *Amer. Math. Soc., Providence, R. I.,* 1966. (J. A. Wolf) 35 #307

Clifford algebras and families of abelian varieties. *Nagoya Math. J.* 27 (1966), 435-446. (M. F. Atiyah) 35 #1602 (E)

Symplectic representations of algebraic groups satisfying a certain analyticity condition. *Acta Math.* 117 (1967), 215-279. (T. Ono) 35 #6694

(with Kuga, Michio) Abelian varieties attached to polarized K_3-surfaces. *Math. Ann.* 169 (1967), 239-242. (M. F. Atiyah) 35 #1603 (E)

Corrections to: "Abelian varieties attached to polarized K_3-surfaces". *Math. Ann.* 173 (1967), 322. (Editors) 35 #6697

A note on holomorphic imbeddings and compactification of symmetric domains. *Amer. J. Math.* 90 (1968), 231-247. (A. Korányi) 36 #4020

On a certain invariant of the groups of type E_6 and E_7. *J. Math. Soc. Japan* 20 (1968), 322-335. (T. Ono) 37 #2759

Corrections to: "Clifford algebras and families of abelian varieties". *Nagoya Math. J.* 31 (1968), 295-296. (Editors) 36 #2624

On modular imbeddings of a symmetric domain of type (IV). *Global Analysis (Papers in Honor of K. Kodaira), pp.* 341-354. *Univ. Tokyo Press, Tokyo,* 1969. (A. Borel) 40 #7483

On some properties of holomorphic imbeddings of symmetric domains. *Amer. J. Math.* 91 (1969), 289-305. (E. Gottschling) 41 #506

A group extension and its unitary representation. (Japanese) *Sûgaku* 21 (1969), 241-253. (A. Morimoto) 43 #2164

Satake, Seiya

(with Yamashita, Shin-ichiro) On the calculation limit of roots of algebraic equations. *Information Processing in Japan* 7 (1967), 18-23. (W. M. Kincaid) 38 #4027

Šatalov, Ju. S.

On the problem of the existence of solutions of systems of singular integral equations of Volterra type. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 403-405. (J. Brilla) 37 #6716

On the question of existence of solutions of systems of singular integral equations of Volterra type. (Russian) *Differencial'nye Uravnenija* 3 (1967), 264-272. (L. Guggenbuhl) 35 #4698

On the question of non-uniqueness of solutions of systems of singular integral equations of Volterra type. (Russian) *Differencial´nye Uravnenija* 3 (1967), 905-911. (J. Kolomý) 36 #1944

A certain method of investigating singular problems. (Russian) *Differencial'nye Uravnenija* 4 (1968), 2215-2229. (J. B. Butler, Jr.) 39 #4475

Šatalov, V. E.

(with Šišmarev, I. A.) Dirichlet series for elliptic operators. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 1280-1282. (F. Barański) 40 #1717

(with Šišmarev, I. A.) Analytic continuation of the Dirichlet series of elliptic boundary value problems. I, II. (Russian) *Differencial´nye Uravnenija* 6 (1970), 1652-1672; *ibid.* 6 (1970), 1844-1850. (J. S. Shipman) 44 #3151

Šatalova, M. A.

l_A- and l_I-rings. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1383-1399. (S. E. Dickson) 34 #4308

Certain questions of the theory of lattice-ordered rings. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 267-268. (D. Vaida) 36 #93

A class of lattice-ordered rings. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 185, 125-134 (1967). (S. P. Bandyopadhyay) 37 #1291

Irreducible decompositions of lattice-ordered rings. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 406-414. (F. Šik) 36 #94

On radical theory in lattice-ordered rings. (Russian) *Mat. Zametki* 4 (1968), 639-648. (F. Šik) 40 #7173

(with Mihalev, A. V.) Automorphisms and antiantomorphisms of the semigroup of invertible matrices with nonnegative elements. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 600-609. (John Ellis) 41 #5507

The absence of o-injective partially ordered modules. (Russian) *Mat. Zametki* 7 (1970), 693-696. (S. E. Dickson) 42 #165

(with Mihalev, A. V.) Projective and free ordered modules. (Russian) *Mat. Zametki* 11 (1972), 41-52. (K. W. Roggenkamp) 44 #6582

Šatašvili, A. D.

On the transformation of Gaussian measures under linear transformations. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 437-440. (Author's summary) 29 #1664

Non-linear transformations of functional integrals by Gaussian measures. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 717-719. (Author's summary) 29 #2853

On the absolute continuity of measures corresponding to Gaussian processes under linear transformations. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 3 (1963), 241-268. (M. Loève) 33 #3382

(with Baklan, V. V.) Conditions for the absolute continuity of probability measures corresponding to Gaussian random variables in a Hilbert space. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1965, 23-26. (K. Krickeberg) 31 #801

(with Baklan, V. V.) Transformation of Gaussian measures by non-linear mappings in Hilbert space. *Dopovidi Akad. Nauk Ukraïn. RSR* 1965, 1115-1117. (I. Csiszár) 32 #4729

Densities of measures corresponding to solutions of stochastic differential equations which are under the effect of Gaussian processes. (Russian) *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Štrom.* 7 (1966), *no.* 1, 43-58. (Petr. Mandl) 34 #8496

Absolute continuity of Gaussian measures in certain functional spaces. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 42 (1966), 277-284. (L. A. Shepp) 34 #869

Conditions for the absolute continuity of measures corresponding to the solutions of a system of differential equations that are acted on by Gaussian processes. (Russian) *Mathematical Physics, No.* 4 (1968) *(Russian), pp.* 198-199. *Naukova Dumka, Kiev,* 1968. (H. Bunke) 42 #615

The multidimensional optimal prediction and filtration of a certain class of vectorial stochastic processes. (Russian) *Mathematical Physics, No. 7 (Russian), pp.* 178-185. *Naukova Dumka, Kiev,* 1970. (Petr Mandl) 42 #6955

Prediction and filtration of functionals of the solutions of nonlinear differential equations with random functions. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 35-37. (H. Bunke) 42 #8033

The densities of measures that correspond to the solutions of certain differential equations with random functions. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 275-277. (L. A. Shepp) 42 #2560

Nonlinear filtration for the solution of certain stochastic differential equations. (Russian) *Kibernetika (Kiev)* 1970, *no.* 3, 97-102. (L. I. Gal´čuk) 44 #1128

The optimal prediction for a certain class of random processes. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist.* 1970, *vyp.* 1, 222-239. (H. Bunke) 44 #2276

Optimal extrapolation and filtration for a certain class of random processes. I. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 235-253. (Ju. M. Ryžov) 44 #3452a

Optimal extrapolation and filtration for a certain class of random processes. II. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 3 (1970), 211-231. (Ju. M. Ryžov) 44 #3452b

Šatašvili, S. H.

On a fundamental plane mixed problem of the theory of stationary oscillations. (Russian) *Gruzin. Politehn. Inst. Trudy* 1963, *no.* 8 (93), 141-147. (N. D. Kazarinoff) 32 #665

A fundamental three-dimensional mixed problem in the theory of steady-state elastic vibrations. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 20 (1964), *no.* 4, 7-11. (N. Cristescu) 29 #4306

Effective solution of a mixed problem for stationary vibrations for an elastic half-space. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1966, *no.* 1 (106), 3-6. (S. Drobot) 34 #5364

Sathe, Y. S.

(with Varde, S. D.) On minimum variance unbiased estimation of reliability. *Ann. Math. Statist.* 40 (1969), 710-714. (Benjamin Epstein) 39 #1064

Sather, Duane

Maximum properties of Cauchy's problem in three-dimensional space-time. *Arch. Rational Mech. Anal.* 18 (1965), 14-26. (L. E. Payne) 30 #361

A maximum property of Cauchy's problem in n-dimensional space-time. *Arch. Rational Mech. Anal.* 18 (1965), 27-38. (L. E. Payne) 30 #362

A maximum property of Cauchy's problem for the wave operator. *Arch. Rational. Mech. Anal.* 21 (1966), 303-309. (H. F. Weinberger) 32 #4382

Maximum and monotonicity properties of initial boundary value problems for hyperbolic equations. *Pacific J. Math.* 19 (1966), 141-157. (H. F. Weinberger) 34 #7968

(with Payne, L. E.) On singular perturbation in non well posed problems. *Ann. Mat. Pura Appl.* (4) 75 (1967), 219-230. (M. Zlámal) 35 #4557

(with Payne, L. E.) On a singular hyperbolic operator. *Duke Math. J.* 34 (1967), 147-162. (A. K. Aziz) 35 #4607

Pointwise bounds for the solution of a Cauchy problem in terms of the Cauchy data. *J. Differential Equations* 3 (1967), 286-309. (A. K. Aziz) 36 #526

(with Payne, L. E.) On some improperly posed problems for the Chaplygin equation. *J. Math. Anal. Appl.* 19 (1967), 67-77. 35 #3278

(with Payne, L. E.) On some improperly posed problems for quasilinear equations of mixed type. *Trans. Amer. Math. Soc.* 128 (1967), 135-141. (J. Hersch) 35 #3279

(with Payne, L. E.) On an initial-boundary value problem for a class of degenerate elliptic operators. *Ann. Mat. Pura Appl.* (4) 78 (1968), 323-337. (O. Horáček) 38 #1380

(with Sather, J.) The Cauchy problem for an elliptic parabolic operator. *Ann. Mat. Pura Appl.* (4) 80 (1968), 197-214. (L. E. Payne) 39 #7291

Branching of solutions of an equation in Hilbert space. *Arch. Rational Mech. Anal.* 36 (1970), 47-64. (H. Amann) 40 #4828

(with Knightly, George H.) On nonuniqueness of solutions of the von Kármán equations. *Arch. Rational Mech. Anal.* 36 (1970), 65-78. (Melvyn S. Berger) 41 #6446

Branching of solutions of a class of nonlinear equations. *Math. Z.* 123 (1971), 105-112. (B. V. Loginov) 44 #7399

Sather, Jerome

The existence of a global classical solution of the initial-boundary value problem for $\Box u + u^3 = f$. *Arch. Rational Mech. Anal.* 22 (1966), 292-307. (C. H. Wilcox) 33 #6124

The initial-boundary value problem for a non-linear hyperbolic equation in relativistic quantum mechanics. *J. Math. Mech.* 16 (1966), 27-50. (E. D. Conway) 33 #4493

(with Sather, D.) The Cauchy problem for an elliptic parabolic operator. *Ann. Mat. Pura Appl.* (4) 80 (1968), 197-214. (L. E. Payne) 39 #7291

Sather, Norman F.

(with Dahler, John S.) Kinetic theory of loaded spheres. I. *J. Chem. Phys.* 38 (1963), 2363-2382. (N. F. Sather) 32 #3734

Sathi, H. L.

(with Singh, M. P.) An exact solution in rotating flow. *J. Math. Mech.* 18 (1968/69), 193-200. (K. Stewartson) 37 #4997

Sathre, Leroy

(with Minc, Henryk) Some inequalities involving $(r!)^{1/r}$. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 41-46. (J. L. Brenner) 29 #55

Satimov, N.

A certain differential game. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 6, 21-22. (A. Friedman) 41 #1395

Sato, Chikara

Correction of stability curves in Hill-Meissner's equation. *Math. Comp.* 20 (1966), 98-106. 32 #4857

Sato, Daihachiro

(with Straus, Ernst. G.) On the rate of growth of Hurwitz functions of a complex of p-adic variable. *J. Math. Soc. Japan* 17 (1965), 17-29. (A. Edrei) 33 #257

(with Straus, E. G.) Generalized interpolation by analytic functions. *Bull. Amer. Math. Soc.* 72 (1966), 32-36. (T. J. Rivlin) 36 #1670

(with Straus, E. G.) Generalised interpolation by analytic functions. *J. Math. Sci.* 1 (1966), 53-76. (S. M. Shah) 34 #2884

(with Straus, E. G.) p-adic proof of non-existence of proper prime representing algebraic functions and related problems. *J. London Math. Soc.* (2) 2 (1970), 45-48. (W.-D. Geyer) 40 #2599

On the type of highly integer valued entire functions. *J. Reine Angew. Math.* 248 (1971), 1-11. (C. R. Deeter) 43 #6434

Algebraic solution of $x^y = y^x$ $(0 < x < y)$. *Proc. Amer. Math. Soc.* 31 (1972), 316. (R. F. Churchhouse) 44 #5272

Sato, Hajime

(with Hattori, Akio) Note on a pairing of Wall. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 157-164. (M. Mahowald) 42 #1136

Diffeomorphism groups and classification of manifolds. *J. Math. Soc. Japan* 21 (1969), 1-36. (S. Y. Husseini) 39 #3525

Diffeomorphism groups of $S^p \times S^q$ and exotic spheres. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 255-276. (R. De Sapio) 40 #6584

Satô, Hiroshi

On the equivalence of Gaussian measures. *J. Math. Soc. Japan* 19 (1967), 159-172. (L. A. Shepp) 35 #4978

A note on stationarity of some random processes. *Information and Control* 13 (1968), 274-279. (Vo-Khac Khoan) 38 #6662

Gaussian measure on a Banach space and abstract Wiener measure. *Nagoya Math. J.* 36 (1969), 65-81. (M. Schilder) 40 #2810

A family of one-parameter subgroups of $\mathcal{O}\ (\mathcal{S}_r)$ arising from the variable change of the white noise. *Publ. Res. Inst. Math. Sci.* 5 (1969), 165-191. (R. Jajte) 41 #6290

One-parameter subgroups and a Lie subgroup of an infinite dimensional rotation group. *J. Math. Kyoto Univ.* 11 (1971), 253-300. (R. Jajte) 44 #2261

Satô, Isuke

On a theorem of Tsukamoto. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 5 (1960), *no.* 1, 133-136. (T. Ohkubo) 41 #4457

On Kaehlerian manifolds with positive constant holomorphic sectional curvature. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 5 (1960), *no.* 1, 137-142. (T. Ohkubo) 41 #6131

On infinitesimal transformations preserving harmonicity of tensor fields. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 6 (1963), *no.* 1, 17-24. (K. Yano) 41 #9165

Almost analytic vector fields in almost complex manifolds. *Tôhoku Math. J.* (2) 17 (1965), 185-199. (J. Charles-Renaudie) 32 #6357

Almost analytic tensor fields in almost complex manifolds. *Tensor (N.S.)* 17 (1966), 105-119. (J. Charles-Renaudie) 33 #683

On almost Hermitian manifold admitting an almost analytic vector field. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 6 (1967), *no.* 4, 401-404. (T. K. Pan) 41 #9166

Complete lifts from a manifold to its cotangent bundle. *Kōdai Math. Sem. Rep.* 20 (1968), 458-468. (K. Yano) 38 #1621

Almost complex structure of the tangent bundles and its applications. *Tensor (N.S.)* 19 (1968), 89-96. (S. Takizawa) 36 #4505

Totally umbilical submanifolds of a Sasakian manifold. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 7 (1969), *no.* 2, 117-122. (T. Nagano) 41 #6132

On Betti numbers of certain Sasakian manifolds. *Kōdai Math. Sem. Rep.* 21 (1969), 387-398. (T. Suguri) 41 #4439

(with Matumoto, Kôzi) Homology and C-Killing vector fields on a K-contact Riemannian manifold. *Tensor (N.S.)* 20 (1969), 138-142. (S. Takizawa) 39 #6213

On Betti numbers of almost Tachibana spaces and Sasakian spaces. *Tensor (N.S.)* 22 (1971), 87-90. (G. D. Ludden) 43 #3980

Satô, Kazuko

Note on projective and injective modules and separable extensions. *TRU Math.* 5 (1969), 47-50. (C. J. Penning) 43 #271

Satō, Kazuko

A non-linear differential equation. *TRU Math.* 4 (1968), 94-98. (J. O. C. Ezeilo) 42 #6357

Sato, Keniti

(with Ikeda, Nobuyuki; Ueno, Tadashi; Tanaka, Hiroshi) A boundary-value problem for multi-dimensional diffusion processes. (Japanese) *Sûgaku* 13 (1961/62), 37-53. (Yuji Itô) 29 #4093

(with Nagasawa, Masao) Remarks to "The adjoint process of a diffusion with reflecting barrier". *Kōdai Math. Sem. Rep.* 14 (1962), 119-122. (R. M. Blumenthal) 29 #6544

(with Nagasawa, Masao) Some theorems on time change and killing of Markov processes. *Kōdai Math. Sem. Rep.* 15 (1963), 195-219. (H. P. McKean, Jr.) 29 #1669

(with Ueno, Tadashi) Multi-dimensional diffusion and the Markov process on the boundary. *J. Math. Kyoto Univ.* 4 (1964/65), 529-605. (H. P. McKean, Jr.) 33 #6702

(with Ikeda, Nobuyuki; Nagasawa, Masao) A time reversion of Markov processes with killing. *Kōdai Math. Sem. Rep.* 16 (1964), 88-97. (R. M. Blumenthal) 32 #3128

A decomposition of Markov processes. *J. Math. Soc. Japan* 7 (1965), 219-243. (S. J. Taylor) 31 #6284

On the generators of non-negative contraction semi-groups in Banach lattices. *J. Math. Soc. Japan* 20 (1968), 423-426. (J. R. Dorroh) 37 #6798 (with Gustafson, Karl) Some perturbation theorems for nonnegative contraction semigroups. *J. Math. Soc. Japan* 21 (1969), 200-204. (S. Goldberg) 38 #6397

On dispersive operators in Banach lattices. *Pacific J. Math.* 33 (1970), 429-443. (J. R. Dorroh) 42 #2318

Lévy measures for a class of Markov semigroups in one dimension. *Trans. Amer. Math. Soc.* 148 (1970), 211-231. (G. Schay) 42 #1216

Sato, Kohei

(with Kondo, Kazuo; Uehara, Takeyuki) Non-Riemannian dynamical theory of energy conversion. I. General principle. (Japanese summary) *RAAG Res. Notes* (3) *No.* 157 (1970), i + 41 *pp.* (D. Lovelock) 41 #9137

Non-Riemannian dynamical theory of energy conversion. II. Metrization of film space. (Japanese summary) *RAAG Res. Notes* (3) *No.* 160 (1970), ii + 40 *pp.* (D. Lovelock) 42 #992

Satô, Kôjirô

(with Matsuda, Ryûki) A topic on duality theorems. *Bull. Fac. Sci. Ibaraki Univ. Ser. A No.* 2-1, 15-18 (1969). (R. C. Busby) 41 #7027

Satô, Masako. See Izumi, Masako.

Sato, Masatomo

(with Kawakami, Ichiro) Gravitational instability in a plasma in a magnetic field. I. Ideal magnetohydrodynamics. *J. Phys. Soc. Japan* 18 (1963), 1334-1339. (PA 67 #2975) 32 #6807

Satō, Osamu

(with Morita, Katuhiko) High precision four variable charts with functional nets. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 11(15) (1965), *fasc.* 3-4, 69-74. (E. M. Bruins) 34 #3818

Sato, Ryotaro

On weak convergence of transformations in topological measure spaces. I, II. *Proc. Japan Acad.* 45 (1969), 39-44; *ibid.* 45 (1969), 164-169. (W. F. Pfeffer) 39 #4360

Notes on generalized commuting properties of skew product transformations. *Proc. Japan Acad.* 45 (1969), 368-373. (D. Newton) 41 #429

Continuous affine transformations of locally compact totally disconnected groups. *Proc. Japan Acad.* 46 (1970), 143-146. (M. Rajagopalan) 43 #4957

On locally compact abelian groups with dense orbits under continuous affine transformations. *Proc. Japan Acad.* 46 (1970), 147-150. (H. Chu) 43 #3394

Properties of ergodic affine transformations of locally compact groups. I, II. *Proc. Japan Acad.* 46 (1970), 231-235; *ibid.* 46 (1970), 236-238. (R. Larsen) 43 #480

On weak convergence of norm preserving operators on $L^2(X)$ and its application to measure preserving transformations. *Math. Z.* 119 (1971), 203-212. (J. C. Oxtoby) 43 #7591

Sato, Shawich

On some kind of set-valued transformation. *Kumamoto J. Sci. Ser. A* 6 (1963/65), 130-134. (H. Röhrl) 32 #3080

Invariant subdomains of the Riemann sphere. *Kumamoto J. Sci. Ser. A* 7 (1965/67), 85-86. (B. Rodin) 36 #1642

On homogeneous complex manifolds. *Kumanoto J. Sci. Ser. A* 8 (1967), 59-62. (G. Trautmann) 38 #4713

Sato, Shigeo

(with Udagawa, Kanehisa) Asymptotic behavior of solutions of differential difference equations for delay system. *Electron. Commun. Japan* 48 (1965), *no.* 2, 27-34. (S. Ekberg) 34 #3683

Satô, Shizuka

On the modules of differentials and differents of the algebras making an inductive system. *Res. Bull. Fac. Ed. Oita Univ.* 3 (1967), *no.* 2, 13-19. (S. Yuan) 41 #5347

Notes on derivations of higher order. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 33 (1969), 41-46. (W. Heinzer) 40 #1381

Some remarks on $\bar{d}$-different. *Res. Bull. Fac. Ed. Oita Univ.* 3 (1969), *no.* 4, 1-4. (W. Heinzer) 41 #3462

Some properties on p-adic expansions of natural numbers. *Res. Bull. Fac. Ed. Oita Univ.* 3 (1970), *no.* 5, 1-4. (E. Grosswald) 44 #145

On rings with a higher derivation. *Proc. Amer. Math. Soc.* 30 (1971), 63-68. (S. Yuan) 43 #4865

Sato, Shizuko

On the influence of a conformal Killing tensor on the reducibility of compact Riemannian spaces. *Kōdai Math. Sem. Rep.* 22 (1970), 436-442. (J. R. Vanstone) 42 #8421

Sato, Shûichi

(with Yamaguchi, Seiichi) On complex hypersurfaces with vanishing Bochner curvature tensor in Kählerian manifolds. *Tensor (N.S.)* 22 (1971), 77-81. (T. Ohkubo) 43 #2649

Sato, Stephen M.

(with Lopresti, Philip V.) On partial decoupling in multivariable control systems. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp.* 814-819. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8082

(with Lopresti, Philip V.) On the generalization of state feedback decoupling theory. *IEEE Trans. Automatic Control* AC-16 (1971), 133-139. (S. F. Moon) 44 #8001

Satô, Terukiyo

On derivations of nilpotent Lie algebras. *Tôhoku Math. J.* (2) 17 (1965), 244-249. (S. Tôgô) 32 #2514

The derivations of the Lie algebras. *Tôhoku Math. J.* (2) 23 (1971), 21-36. (E. I. Marshall) 44 #5354

Satō, Tokui

Sur l'analyse générale. III. Différentiation d'applications de fonctions. *Ann. Mat. Pura Appl.* (4) 59 (1962), 55-64. (R. A. Rosenbaum) 32 #5567

Sur l'analyse générale. IV. Entropie dans la cybernétique. *Ann. Mat. Pura Appl.* (4) 61 (1963), 287-296. (J. Chover) 29 #4867

Sur l'intégrale de Riemann-Stieltjes. *Funkcial. Ekvac.* 8 (1965), 39-43. (B. K. Lahiri) 33 #234

Sur déterminant de Jacobi et relation fonctionnelle. *Proc. Japan Acad.* 41 (1965), 785-790. (W. A. J. Luxemburg) 33 #5810

Sur l'analyse générale. V. Théorie des suites filtrantes de nombres. *Ann. Mat. Pura Appl.* (4) 74 (1966), 179-202. (D. V. Thampuran) 34 #5994

Sur l'entropie et quelques équations fonctionnelles. *Funkcial. Ekvac.* 9 (1966), 93-97. (D. ter Haar) 35 #1319

Sur la convergence des séries de Fourier. *Proc. Japan Acad.* 43 (1967), 861-864. (D. Waterman) 37 #5594

(with Takemura, Yasusi) Sur les suites filtrantes de nombres. *Proc. Japan Acad.* 44 (1968), 141-143. (D. V. Thampuran) 37 #5334

Une généralisation de l'intégrale de Lebesgue. *Ann. Mat. Pura Appl.* (4) 85 (1970), 201-233. (W. J. Wilbur) 42 #438

Sato, Tsuneo

On the functional equality $|f(x + iy)| = |f(x)|\,|f(iy)|$. *J. College Arts Sci. Chiba Univ.* 4 (1963/64), *no.* 2, 9-10. (Editors) 32 #2764

Some variations of univalence radius. *J. College Arts Sci. Chiba Univ.* 4 (1965), *no.* 3, 241-243. (W. C. Royster) 36 #6603

On the mean value of entire functions and their derivatives. *J. College Arts Sci. Chiba Univ.* 4 (1966), *no.* 4, 397-401. (Hari Shankar) 37 #1610

Remarks on Hayman's theorems. *Kōdai Math. Sem. Rep.* 19 (1967), 361-369. (A. Edrei) 37 #424

Satô, Yasuo

(with Usami, Tatsuo) Propagation of spheroidal disturbances on a homogeneous elastic sphere. *Bull. Earthquake Res. Inst. Univ. Tokyo* 42 (1964), 273-287. (Ivor McIvor) 31 #2898

Satô, Yûkiti

On analytic continuation of solutions of an ordinary differential equation of the first order. *Comment. Math. Univ. St. Paul.* 10 (1961), 17-25. (T. Kimura) 31 #3658

On a system of nonlinear ordinary differential equations containing a small parameter. *Comment. Math. Univ. St. Paul.* 14 (1966), 25-52. (L. A. MacColl) 32 #7897

Periodic solutions of $\ddot{x} + f(x,\dot{x})\dot{x} + g(x) = 0$. *Comment. Math. Univ. St. Paul.* 14 (1966), 97-104. (J. O. C. Ezeilo) 34 #424

On a nonlinear differential equation $\ddot{x} + f(x,\dot{x})\dot{x} + g(x) = 0$. *Sci. Rep. Saitama Univ. Ser. A* 5, 57-65 (1967). (P. Sagirow) 36 #6707

On the existence of limit cycles of circuits containing one Esaki diode. *Comment. Math. Univ. St. Paul.* 18 (1970), 1-17. 41 #5112

Šatraeva, L. V.

Prime ideals in certain Banach algebras of infinitely differentiable functions. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 86-95. (B. R. Gelbaum) 39 #3316

Šatrov, A. D.

Discrete representations of the field in the problem of excitation of a dielectric plate. *Radiotehn. i Èlektron.* 15 (1970), 1806-1815 *(Russian); translated as Radio Engrg. Electron. Phys.* 1970, 1564-1573 (1971). (N. Zitron) 44 #1317

Sattarova, M. K.

The continuation of an analytic function from an $(n - 1)$-dimensional manifold to the whole space. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 3, 10-12. (L. Kaup) 38 #343

Representation of analytic functions of two independent variables by the sum of squares. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 12, 3-6. (E. Porada) 43 #6383

Sattinger, David H.

A singular eigenfunction expansion in anisotropic transport theory. *J. Math. Anal. Appl.* 15 (1966), 497-511. (S. Ueno) 34 #7179

The eigenvalues of an integral equation in anisotropic neutron transport theory. *J. Math. and Phys.* 45 (1966), 188-196. (P. M. Anselone) 35 #3402 (with Rosencrans, S. I.) On the spectrum of an operator occurring in the theory of hydrodynamic stability. *J. Math. and Phys.* 45 (1966), 289-300. (W. Velte) 34 #8714

Stability of nonlinear hyperbolic equations. *Arch. Rational Mech. Anal.* 28 (1967/68), 226-244. (D. Ludwig) 37 #567

On the Rayleigh problem in hydrodynamic stability. *SIAM J. Appl. Math.* 15 (1967), 419-425. (L. E. Payne) 35 #5180

On global solution of nonlinear hyperbolic equations. *Arch. Rational Mech. Anal.* 30 (1968), 148-172. (J. Smoller) 37 #3200

Stability of nonlinear parabolic systems. *J. Math. Anal. Appl.* 24 (1968), 241-245. (V. G. Sigillito) 37 #6585

(with Hurd, A. E.) Questions of existence and uniqueness for hyperbolic equations with discontinuous coefficients. *Trans. Amer. Math. Soc.* 132 (1968), 159-174. (C. Harvey) 36 #5509

The mathematical problem of hydrodynamic stability. *J. Math. Mech.* 19 (1969/70), 797-817. (W. Velte) 41 #5798

On the total variation of solutions of parabolic equations. *Math. Ann.* 183 (1969), 78-92. (V. G. Sigillito) 40 #4609

Bifurcation of periodic solutions of the Navier-Stokes equations. *Arch. Rational Mech. Anal.* 41 (1971), 66-80. (W. F. Ames) 42 #7138

Sattler, Alfred

(with Mennicken, Reinhard) Biorthogonalentwicklungen analytischer Funktionen nach Produkten spezieller Funktionen. I. *Math. Z.* 89 (1965), 1-29. (J. Meixner) 33 #7590

(with Mennicken, Reinhard) Biorthogonalentwicklungen analytischer Funktionen nach Produkten spezieller Funktionen. II. *Math. Z.* 89 (1965), 365-394. (J. Meixner) 33 #7591

(with Mennicken, Reinhard) Biorthogonalentwicklungen analytischer Funktionen nach Eigenlösungen linearer Differentialgleichungen. *Math. Z.* 93 (1966), 1-36. (J. Meixner) 33 #7619

Šatunov, M. P.

An inversion error-correcting code. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 325-329. (T. Nemetz) 43 #5987

Šatunova, E. S.

The theory of limits of Simon l'Huilier. (Russian) *Istor.-Mat. Issled. No.* 17 (1966), 325-331. (L. Guggenbuhl) 36 #19

The theory of limits of Simon L'Huilier. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 185, 79-112 (1967). (L. Guggenbuhl) 36 #2461

Šatunovskaja, E. Ju.

On the geometry of the trivector. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 393-400. (B. Rozenfel′d) 41 #2578

Šatunovskii, S. O.

(See Bahmutskaja, È. Ja., 35 #1436 and 33 #3870)

Satyabanta Singh, A.

Satyabanta's form of the generalised law of means. *Math. Education* 3 (1969), 77-81. (P. H. Diananda) 42 #3239a

Satyabanata's inequality and deduction of Cauchy-Holder inequality from it. *Math. Education* 3 (1969), 138-142. (C. Vinti) 44 #4170

A particular case of Satyabanta's form of the generalised law of means. *Math. Education* 4 (1970), A123-A124. (H. Kober) 44 #5421

Satyamurty, P. R.

(with Gregory, G.) A note on the queueing system *M/M/1* with balking. *Biometrika* 52 (1965), 643-645. (D. V. Lindley) 34 #6878

(with Sengupta, S. S.) Some examples in measure-theoretic representation of random variables. *Studia Sci. Math. Hungar.* 2 (1967), 355-361. (Simeon M. Berman) 36 #3387

Satyanarayana, Kesiraju

* Pedal lines, orthopoles, Kantor lines, Kantor points, deltoids and poristic polygons [Study by the method of complex coordinates]. *Published by the author, Rajahmundry,* 1964. xii + 148 pp. 31 #643

Satyanarayana, Motupalli

Semisimple rings. *Amer. Math. Monthly* 74 (1967), 1086. (J. Luh) 37 #1403

Rings with primary ideals as maximal ideals. *Math. Scand.* 20 (1967), 52-54. (R. E. MacRae) 35 #2880

Characterization of local rings. *Tôhoku Math. J.* (2) 19 (1967), 411-416. (L. J. Ratliff, Jr.) 37 #240

Local quotient rings. *Proc. Amer. Math. Soc.* 19 (1968), 1313-1320. (W. H. Caldwell) 38 #2173

Generalized primary rings. *Math. Ann.* 179 (1969), 109-114. (J. A. Johnson) 39 #1448

Weak Archimedean rings. *Math. Nachr.* 41 (1969), 133-137. (R. A. Melter) 40 #73

A note on p. p. rings. *Math. Scand.* 25 (1969), 105-108. (M. Djabali) 41 #5421

On Archimedean ring extensions. *Publ. Math. Debrecen* 16 (1969), 63-66. (R. A. Melter) 41 #6749

Fully ordered rings. *Math. Nachr.* 44 (1970), 199-204. (R. A. Melter) 42 #3003

A class of commutative semigroups in which the idempotents are linearly ordered. *Czechoslovak Math. J.* 21(96) (1971), 633-637. (T. Saitô) 44 #6882

Characterization of some fully ordered rings. *J. Austral. Math. Soc.* 12 (1971), 83-85. (R. A. Melter) 43 #136

Principal right ideal semigroups. *J. London Math. Soc.* (2) 3 (1971), 549-553. (Donald W. Miller) 44 #348

(with Al-Amiri, Hassoon) Completely prime radical and primary ideal representations in non-commutative rings. *Math. Z.* 121 (1971), 181-187. (S. Williamson) 43 #6247

On semigroups admitting ring structure. *Semigroup Forum* 3 (1971/72), *no.* 1, 43-50. (H. J. Weinert) 44 #6883

Satyanarayana, N.

(with Srinath, M. D.) Stability of linear regulators optimal for time-multiplied performance indices. *AIAA J.* 8 (1970), 1514-1516. (L. D. Berkovitz) 42 #1558

(with Srinath, M. D.) Solution of the optimal linear regulator problem from the stability viewpoint. *IEEE Trans. Automatic Control* AC-15 (1970), 590. (Authors' summary) 43 #1710

(with Rajasekaran, P. K.; Srinath, M. D.) Optimum linear estimation of stochastic signals in the presence of multiplicative noise. *IEEE Trans. Aerospace and Electron. Systems* AES-7 (1971), 462-468. (K. S. Miller) 43 #4543

(with Srinath, M. D.) Invariance in linear estimators. *J. Math. Anal. Appl.* 37 (1972), 113-117. (N. U. Ahmed) 44 #8002

Satyanarayana, U. V.

On the inversion property of the Möbius μ-function. II. *Math. Gaz.* 49 (1965), 171-178. (M. V. Subbarao) 32 #1156

(with Pattabhiramasastry, K.) A note on the generalised ϕ-functions. *Math. Student* 33 (1965), 81-83. (F. Herzog) 33 #107

Šatylo, E. I.

Groups of CS type. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1040-1043. (F. Haimo) 42 #3168

Šatyro, Ja. I.

The smoothness of the solutions of certain degenerate second order equations. (Russian) *Mat. Zametki* 10 (1971), 101-111. (R. Guether) 44 #5621

Satz, H.

(with Joos, H.) On a classical statistical model with the nonrelativistic integrals of motion. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 619-631. (P. Havas) 33 #2312

The high-energy limit of the statistical model. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1407-1421. (Author's summary) 33 #3674

Sau, Jacques

(with Escudie, Bernard; Chéry, Roland) Relation entre les opérations d'échantillonnage et de quantification d'un signal. *C. R. Acad. Sci. Paris* 260 (1965), 4897-4900. (L. L. Campbell) 31 #3242

Sauer, K.

(with Wallis, G.) Eine Äquivalenzbedingung für Boltzmann- und Fokker-Planck-Stossintegrale in Momentengleichungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 17-21. (R. J. Rubin) 36 #1172

Sauer, Niko

Representation theorems in a reflexive *B*-space. *Math. Z.* 93 (1966), 202-205. (R. C. James) 34 #4877

Properties of bilinear forms on Hilbert spaces related to stability properties of certain partial differential operators. *J. Math. Anal. Appl.* 20 (1967), 124-144. (P. Szeptycki) 36 #496

Riesz-Fréchet-type theorems in locally convex spaces. *Math. Z.* 99 (1967), 349-354. (R. C. James) 36 #647

(with Fujita, Hiroshi) Construction of weak solutions of the Navier-Stokes equation in a noncylindrical domain. *Bull. Amer. Math. Soc.* 75 (1969), 465-468. (M. G. Hall) 39 #647

Sauer, Norbert

Extremaleigenschaften regulärer Graphen gegebener Taillenweite. I, II. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 176 (1967), 9-25; *ibid.* 176 (1967), 27-43. (C. St. J. A. Nash-Williams) 37 #6206

(with Kuich, W.) On the existence of certain minimal regular *n*-systems with given girth. *Proof Techniques in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich.,* 1968*), pp.* 93-101. *Academic Press, New York,* 1969. (Marshall Hestenes) 41 #1570

Extremal point and edge sets in *n*-graphs. *Canad. J. Math.* 21 (1969), 1069-1075. (H. A. Jung) 40 #2568

(with Schönheim, J.) Maximal subsets of a given set having no triple in common with a Steiner triple system on the set. *Canad. Math. Bull.* 12 (1969), 777-778. (E. F. Assmus, Jr.) 40 #5456

(See also Combinatorial structures and their applications, 41 #8247)

(with Milner, E. C.) Generalizations of a lemma of Folkman. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 295-307. (Jack E. Graver) 43 #6127

On the existence of regular *n*-graphs with given girth. *J. Combinatorial Theory* 9 (1970), 144-147. (Author's summary) 41 #8282

On the factorisation of the complete graph into factors of diameter 2. *J. Combinatorial Theory* 9 (1970), 423-426. (From the author's summary) 43 #4713

The largest number of edges of a graph such that not more than g intersect in a point or more than n are independent. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford, 1969), pp.* 253-257. *Academic Press, London,* 1971. (From the author's introduction) 43 #3151

A generalization of a theorem of Turán. *J. Combinatorial Theory Ser. B* 10 (1971), 109-112. (F. Harary) 44 #6539

Sauer, P.

(with Meyer-Pundt, G.) Zur Definition der Drehimpulseigenfunktionen in der Vektormesontheorie. *Z. Physik* 180 (1964), 272-285. (N. D. Sengupta) 33 #2129

Sauer, Robert

Anwendung eines neuen Differenzenverfahrens auf die Ausbreitung nichtlinearer Druckwellen. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 43-52 (1963). (R. F. Albrecht) 30 #2688

* Ingenieur-Mathematik. Erster Band: Differential- und Integralrechnung. *Dritte erweiterte Auflage. Springer-Verlag, Berlin,* 1964. vii + 328 *pp.* (Editors) 31 #1791

Einfache Wellen in der Charakteristikentheorie von Systemen quasilinearer partieller Differentialgleichungen. (English and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 203-209. (C. H. Wilcox) 30 #1297

* (with Bauer, Friedrich L.; Heinhold, Josef; Samelson, Klaus) Moderne Rechenanlagen; eine Einführung. Leitfäden der angewandten Mathematik und Mechanik, Band 5. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1965. 357 *pp.* (L. Collatz) 32 #577

Herleitung der Richtungs- und Verträglichkeitsbedingungen der Charakteristikentheorie bei einer beliebigen Anzahl der unabhängigen Veränderlichen. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1964, *Abt. II,* 97-105 (1965). (R. F. Albrecht) 31 #6068

Über eine Transformation zur Linearisierung partieller Differentialgleichungen. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1965, *Abt. II,* 87-97 (1966). (W. Velte) 34 #3062

Numerische Verfahren zur Lösung n-dimensionaler Anfangswertprobleme von hyperbolischen Typus. (English summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 105-114. (G. W. Hedstrom) 35 #3922

(See also Doetsch, G., Schäfke, F. W., Tietz, Horst, 36 #4851)

Finite Modelle zur Differentialgeometrie der Regelflächen. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 127-135. (A. Haimovici) 35 #6115

* (with Anđelić, T. P.; Aumann, G.; Bauer, F. L.; Bulirsch, R.; Künzi, H. P.; Rutishauser, H.; Samelson, K.; Stoer, J.) Mathematische Hilfsmittel des Ingenieurs. Teil III. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 141. *Springer-Verlag, Berlin-New York,* 1968. xix + 535 *pp.* (E. Kreyszig) 37 #7115

* Ingenieur-Mathematik. Zweiter Band: Differentialgleichungen und Funktionentheorie. Dritte erweiterte Auflage. *Springer-Verlag, Berlin-New York,* 1968, viii + 192 *pp.* (Editors) 37 #7116

(See also Grundzüge der Mathematik, 38 #957)

Winkeltreue Deformationen der Schmiegliniennetze auf allgemeinen Wendelflächen: Ein Beitrag zur Differenzengeometrie. *Math. Ann.* 178 (1968), 4-11. (E. M. Zaustinsky) 38 #5125

* Ingenieur-Mathematik. Band I: Differential- und Integralrechnung. Vierte verbesserte Auflage. *Springer-Verlag, Berlin-New York,* 1969. viii + 328 *pp.* (Editors) 40 #5170

(See also Collatz, L.; Nicolovius, R.; Törnig, W., 40 #8315 and Hahn, W.; Mammitzsch, V.; Morgenstern, D.; Pöschl, K.; Zander, W., 42 #5480)

* Differenzengeometrie. *Springer-Verlag, Berlin-New York,* 1970. 234 *pp.* (B. d'Orgeval) 41 #7544

Geometrische Beziehungen in der Aerodynamik kompressibler Medien. (English summary) *Ann. Mat. Pura Appl.* (4) 84 (1970), 157-170. (A. Newlander, Jr.) 42 #4078

Geometrische Bemerkungen zur Theorie nichtstationärer Gasströmungen. (English and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 581-586. (A. A. Blank) 43 #2908

Sauer, Wilfried

Über eine Klasse von linearen Funktionstransformationen in der Nachrichtentechnik. *Wiss. Z. Techn. Univ. Dresden* 15 (1966), 333-340. (N. Zierler) 34 #5563

Sauerwein, Harry

The method of characteristics for the three-dimensional unsteady magnetofluid dynamics of a multi-component medium. *J. Fluid Mech.* 25 (1966), 17-41. (1 *fold-out*) (N. Riley) 33 #2083

Saulesco, Constantin. See Săulescu, Constantin.

Săulescu, Constantin

(with Bădescu, Radu; Dumitrescu, Eugeniu) On a differential equation of order n. (Romanian. Russian, English, French and German summaries) *Bul. Inst, Politehn. Bucureşti* 25 (1963), *no.* 5, 29-43. (R. Conti) 32 #237

(with Bădescu, Radu; Dumitrescu, Eugeniu) Sur une équation différentielle linéaire à coefficients variables. *Enseignement Math.* (2) 11 (1965), 126-136. (A. Dou) 32 #5963

Saul′ev, V. K.

Solution of certain boundary-value problems on high-speed computers by the fictitious-domain method. (Russian) *Sibirsk. Mat. Ž.* 4 (1963), 912-925. (J. H. Giese) 29 #1748

* Integration of equations of parabolic type by the method of nets. Translated from the Russian by G. J. Tee. Translation edited and editorial introduction by K. L. Stewart. International Series of Monographs in Pure and Applied Mathematics, Vol. 54. *Pergamon Press, London-Edinburgh-New York,* 1964. xvii + 346 *pp.* *(loose errata)* (Editors) 33 #6153

On the numerical solution of boundary value problems for a multi-zone domain bounded by eccentric circles. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 1, 163-169. (E. L. Albasiny) 34 #976

Saulevich, L. K.

(with Novosadov, B. K.; Sviridov, D. T.; Smirnov, Ju. F.) The decomposition of direct products of irreducible representations of space groups. *Dokl. Akad. Nauk SSSR* 184 (1969), 82-84 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 50-52. 41 #3013

Sauliev, V. K. See Saul′ev, V. K.

Saulis, L. I.

Large deviations for densities. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 153-163. (Author's summary) 40 #911

Asymptotic expansion for probabilities with large deviations. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 605-625. (G. N. Sytaja) 41 #9333

(with Statulevičius, V.) An asymptotic expansion for the probabilities of large deviations of sums of random variables that are connected in a Markov chain. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 359-366. (R. Theodorescu) 42 #8546

Saulit, V. R.

On an unknown case when the hypergeometric Gauss equation can be integrated in finite form. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 19, 157-158. 34 #2955

Šauman, A. M.

On a class of adders with error correction. (Russian) *Comput. Tech. and Programming Problems (Russian), pp.* 3-15. *Izdat. Leningrad. Univ., Leningrad,* 1964. 32 #2277

The estimation of the error in approximate multiplication. (Russian) *Metody Vyčisl.* 5 (1968), 120-132. (E. Maliszewski) 44 #4952

(with Ovruckiĭ, A. I.) Estimation of the error in short division. (Russian) *Metody Vyčisl.* 5 (1968), 132-147. (E. Maliszewski) 44 #6181

Šaumjan, S. K.

(See Problems of structrual linguistics, 33 #8238)

* Структурная лингвистика. (Russian) [Structural linguistics] *Izdat. "Nauka", Moscow,* 1965. 396 *pp.* (S. Marcus) 33 #8239

Outline of the applicational generative model for the description of language. *Found. Language* 1 (1965), 189-222. (S. Marcus) 34 #7305

Saumweber, Eckart

Der Spannungs- und Verschiebungszustand in homogen- und inhomogen-elastischen Ringen. (English and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 49-64. (R. M. Morris) 33 #3513

Saunders, L. M.

(with Abarbanel, H. D. I.) Partial diagonalization of absorptive part equations by Laplace transforms. *Ann. Physics* 64 (1971), 254-270. (A. O. Barut) 44 #6260

(with Abarbanel, Henry D. I.) Laplace transform diagonalization of forward scattering absorptive part equations. *Ann. Physics* 69 (1972), 583-603. (R. Delbourgo) 44 #7877

Saunders, L. R.

The dynamics of a simple non-linear prediction system. *Austral. J. Statist.* 4 (1962), 77-85. (W. Freiberger) 34 #8600

Saunders, M. A.

(with Bartels, R. H.; Golub, G. H.) Numerical techniques in mathematical programming. *Nonlinear Programming (Proc. Sympos., Univ. of Wisconsin, Madison, Wis., 1970), pp.* 123-176. *Academic Press, New York,* 1970. (Authors' summary) 42 #7277

Saunders, Sam C.

On the use of a distribution-free property in determining a transformation of one variate such that it will exceed another with a given probability. *Sankhyā Ser. A* 24 (1962), 239-250. (Author's summary) 29 #6573

(with Myhre, Janet M.) On confidence limits for the reliability of systems. *Ann. Math. Statist.* 39 (1968), 1463-1472. (Richard A. Johnson) 38 #842

(with Myhre, J. M.) Comparison of two methods of obtaining approximate confidence intervals for system reliability. *Technometrics* 10 (1968), 37-49. (J. A. Greenwood) 37 #3714

On the determination of a safe life for distributions classified by failure rate. *Technometrics* 10 (1968), 361-377. (From the author's summary) 38 #2911 (with Mann, N. R.) On evaluation of warranty assurance when life has a Weibull distribution. *Biometrika* 56 (1969), 615-625. (Authors' summary) 40 #8204

(with Birnbaum, Z. W.) A new family of life distributions. *J. Appl. Probability* 6 (1969), 319-327. (H. L. Harter) 40 #6707

(with Birnbaum, Z. W.) Estimation for a family of life distributions with applications to fatigue. *J. Appl. Probability* 6 (1969), 328-347. (E. J. Hannan) 40 #5034

(with Myhre, J. M.) Approximate confidence limits for complex systems with exponential component lives. *Ann. Math. Statist.* 42 (1971), 342-348. 43 #1362

Sauve, James W.

A reduction of the three body problem by means of transformation groups. *Trans. Amer. Math. Soc.* 119 (1965), 21-36. (E. Leimanis) 31 #5372

Saux, Marie-Thérèse

Sur les distributions à valeurs dans le corps des opérateurs de Mikusinski. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1744-A1747. (L. Artiaga) 42 #3567

Savage, I. Richard

Surveillance problems: Poisson models with noise. *Naval Res. Logist. Quart.* 11 (1964), 1-13. (G. Tintner) 29 #3248

Contributions to the theory of rank order statistics: Applications of lattice theory. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 52-64. (J. H. Stapleton) 32 #558

(with Savage, L. J.) Finite stopping time and finite expected stopping time. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 284-289. (C. H. Kraft) 33 #6794

(with Antelman, Gordon R.) Surveillance problems: Wiener processes. *Naval Res. Logist. Quart.* 12 (1965), 35-55. (G. Tintner) 32 #7253

(with Antelman, Gordon) Characteristic functions of stochastic integrals and reliability theory. *Naval Res. Logist. Quart.* 12 (1965), 199-222. (Z. W. Birnbaum) 34 #8511

(with Sobel, Milton; Woodworth, George) Fine structure of the ordering of probabilities of rank orders in the two sample case. *Ann. Math. Statist.* 37 (1966), 98-112. (C. H. Kraft) 32 #4791

(with Sethuraman, J.) Stopping time of a rank-order sequential probability ratio test based on Lehmann alternatives. *Ann. Math. Statist.* 37 (1966), 1154-1160. (R. H. Berk) 34 #915 (E)

(with Sethuraman, J.) Correction to: "Stopping time of a rank-order sequential probability ratio test based on Lehmann alternatives". *Ann. Math. Statist.* 38 (1967), 1309. (Editors) 35 #2438

(with Karas, James) Publications of Frank Wilcoxon (1892-1965). *Biometrics* 23 (1967), 1-10. (1 *plate*) (Editors) 35 #5020

(with Antelman, G. R.; Russell, C. B.) Surveillance problems: Two-dimensional with continuous surveillance. *SIAM J. Control* 5 (1967), 245-267. (G. Berman) 37 #1154

* Statistics: Uncertainty and behavior. *Houghton Mifflin Co., Boston, Mass.*, 1968. xiii + 344 pp. (L. J. Gleser) 40 #3633

(with Berk, Robert H.) The information in a rank-order and the stopping time of some associated SPRT's. *Ann. Math. Statist.* 39 (1968), 1661-1674. (P. K. Bhattacharya) 38 #823

(with Saxena, K. M. Lal) Monotonicity of rank order likelihood ratio. *Ann. Inst. Statist. Math.* 21 (1969), 265-275. (T. A. Willke) 41 #2854

Nonparametric statistics: A personal review. *Sankhyā Ser. A* 31 (1969), 107-144. (G. E. Noether) 40 #2200

Savage, John E.

Minimum distance estimates of the performance of sequential decoders. *IEEE Trans. Information Theory* IT-15 (1969), 128-140. (I. M. Chakravarti) 41 #3170

Complexity of decoders. I. Classes of decoding rules. *IEEE Trans. Information Theory* IT-15 (1969), 689-695. (Author's summary) 42 #5717

Three measures of decoder complexity. *IBM J. Res. Develop.* 14 (1970), 417-425. (G. M. Tenengol'c) 42 #7399

A note on the performance of concatenated codes. *IEEE Trans. Information Theory* IT-16 (1970), 512-513. (From the author's introduction) 43 #8442

Savage, Leonard J.

* (with Dubins, Lester E.) How to gamble if you must. Inequalities for stochastic processes. *McGraw-Hill Book Co., New York-Toronto-London-Sydney*, 1965. xiv + 249 pp. (M. Iosifescu) 38 #5276

(with Savage, I. R.) Finite stopping time and finite expected stopping time. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 284-289. (C. H. Kraft) 33 #6794

(with Dubins, Lester E.) A Tchebycheff-like inequality for stochastic processes. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 274-275. (D. A. Darling) 31 #6266

A geometrical approach to the special stable distributions. *Zastos. Mat.* 10 (1969), 43-46. (K. C. S. Pillai) 39 #7653

(with Olshen, Richard A.) A generalized unimodality. *J. Appl. Probability* 7 (1970), 21-34. (E. H. Lehman) 41 #6274

Savage, Nevin

Ahlfors' conjecture concerning extreme Sario operators. *Bull. Amer. Math. Soc.* 72 (1966), 720-724. (L. V. Ahlfors) 33 #1444

Savage, R. G.

(with Dotson, W. G., Jr.) A class of functions having elementary integrals for arc length. *Math. Mag.* 43 (1970), 42-43. (B. K. Lahiri) 40 #7407

Savage, S. B.

Laminar radial flow between parallel plates. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 594-596. (Author's summary) 30 #783

Savčenko, L. I.

(with Kovač, Ju. Ī.) The solution of a certain boundary value problem for a nonlinear system of second order ordinary differential equations. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 34-44. (P. B. Bailey) 36 #5430

(with Kovač, Ju. Ī.) The two-sided iterative method of solution of a boundary value problem for nonlinear systems of differential equations of parabolic and hyperbolic types. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 252-260. (S. Burýšek) 39 #5955

(with Kovač, Ju. Ī.) The estimation of the solution of certain nonlinear integro-differential and operator equations with lag. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1496-1505. (L. E. Bobisud) 42 #6448

(with Kovač, Ju. Ī.) A boundary value problem for a nonlinear system of differential equations with retarded argument. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 12-21. (L. M. Hall) 42 #624

The estimation of the solution of the first boundary value problem for quasilinear systems of differential equations of parabolic type. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 421-428. (A. Haimovici) 43 #7781

Savčenko, O. Ja.

(with Harlamova, O. Ī.) The motion of a body with a cavity filled with fluid. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 1017-1019. 39 #2375

Savčuk, A. P.

On Shannon's estimates for the entropy of a language. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 154-157. (J. H. B. Kemperman) 29 #2109

Savel'ev, L. Ja.

Extension of measures by continuity. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 639-650. (O. Frink) 29 #5973

On continuous measures. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 44-45. (J. Mařík) 30 #4893

On ordinal topologies and continuous measures. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1357-1364. (K. Krickeberg) 33 #83

Countably additive vector-measures. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 758-759. (S. Warner) 33 #5827

Certain conditions of extendability of factor measures. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 937-950. (K. Krickeberg) 38 #4645; erratum, 39, p. 1594.

Savelova, T. I.

(with Arsenin, V. Ja.) The application of the method of regularization to convolution type integral equations of first kind. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1392-1396. (L. von Wolfersdorf) 42 #2703

Savenko, S. S.

An iterative method for solving algebraic and transcendental equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 738-744. (J. L. Brenner) 29 #2966

Savenkov, V. N.

Calculation of the Schwarz-Christoffel constants for an arbitrary simply connected quadrilateral. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1964, 574-576. (Author's summary) 29 #2942

On mapping the upper half-plane onto a polygon. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian)*, pp. 587-593. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. 33 #1439

On the question of conformal mapping of triangles and quadrangles. (Russian) *Certain Problems of Applied Mathematics, No. 3 (Russian)*, pp. 82-86. *Izdat. "Naukova Dumka", Kiev*, 1967. (Editors) 39 #2960

(with Nepritvor'onna, L. M.) Determination of constants in the case of the mapping of the upper halfplane on the exterior of a quadrangle. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 130-133, 189. (R. Kühnau) 43 #5014

Savickiĭ, V. M.

The classification of complete regular developable surfaces of Lobačevskiĭ space which are homeomorphic to a euclidean cylinder. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 149, 169-174 (1964). 32 #2995

The lines of striction of a developable surface in a Lobačevskiĭ space. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 149, 175-190 (1964). 32 #2996

The deformation in a Lobačevskiĭ space of developable surfaces which are homeomorphic to a euclidean cylinder. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 149, 191-200 (1964). 32 #2997

Savin, A. P.

The structure of the set of points of one-to-oneness in continuous mappings of manifolds. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 267-269. (A. Lelek) 35 #2269

(with Krivoševeev, B. V.) The approximation of functions satisfying a Lipschitz condition by algebraic polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1278-1281. (D. L. Ragozin) 41 #2271

Savin, G. M.

(with Van Fo Fi, G. A.; Buĭvol, V. M.) Application of the method of successive approximations in certain problems of the theory of shallow shells. (Ukrainian. Russian and English summaries) *Prikladna Meh.* 7 (1961), 487-495. (Authors' summary (RŽMeh 1963 #8 V59)) 32 #4947

Dynamics of an anelastic string of variable length. *Stress Waves in Anelastic Solids (Sympos., Brown Univ., Providence, R. I.,* 1963*), pp.* 78-86. *Springer, Berlin,* 1964. (P. P. Teodorescu) 30 #2767

(with Guz′, A. N.; Curpal, I. A.) Stress concentration around holes in physically nonlinear elastic plates. (Russian. Polish and English summaries) *Arch. Mech. Stos.* 16 (1964), 1009-1021. (H. G. Hopkins) 31 #5388

(with Guz′, O. M.) On a method of solution for plane problems of the moment theory of elasticity for multiply connected regions. (Russian) *Prikladna. Meh.* 2 (1966), *vyp.* 1, 3-19. (P. P. Ţeodorescu) 33 #2034

The basic problems of the plane moment theory of elasticity. (Russian) *Concentration of Stresses, No.* 2 *(Russian), pp.* 145-166. *Naukova Dumka, Kiev,* 1968. (Editors) 39 #3743

(with Ruščic′kiĭ, Ja. Ja.) The existence and uniqueness of a solution in the theory of elasticity for materials with memory. (Russian. Polish and English summaries) *Arch. Mech. Stos.* 22 (1970), 523-530. (B. A. Bondarenko) 43 #8289

(with Homa, Ī. Ju.) The solution of a certain boundary value problem of shell theory. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 930-935, 959. (Authors' summary) 44 #5486

(with Koĭfman, Ju. I.) General nonlinear elasticity theory (a survey). (Russian) *Prikladna. Meh.* 6 (1970), *vyp.* 12, 3-26. 44 #1295

(with Ruščic′kiĭ, Ja. Ja.) The solvability of a mixed boundary value problem of the hereditary theory of elasticity. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1971, 466-468, 480. (B. A. Bondarenko) 44 #7822

Savin, O. R.

Improving the quality of extremal control of inertial processes. (Ukrainian. Russian and English summaries) *Avtomatika* 1964, *no.* 2, 33-41. (Author's summary) 29 #2123

Savinov, G. V.

Application of conjugate systems to certain problems in automatic control. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1960, *no.* 2, 72-77. (Author's summary) 31 #1135

Savinova, L. T.

On evaluating certain types of definite integrals of oscillatory functions. (Russian) *Trudy Mat. Inst. Steklov.* 66 (1962), 166-181. (D. D. Stancu) 39 #2681

The evaluation of definite integrals of oscillatory functions. *Trudy Mat. Inst. Steklov.* 96 (1968), 196-204 *(Russian); translated in Proc. Steklov Inst. Math., No.* 96 (1968): *Automat. Programming, Numer. Methods and Functional Anal., pp.* 247-257. *Amer. Math. Soc., Providence, R. I.,* 1970. (I. M. Longman) 42 #5451

Savitch, Walter J.

Relationships between nondeterministic and deterministic tape complexities. *J. Comput. System Sci.* 4 (1970), 177-192. (H. Maurer) 42 #1605

Savithri, K.

Units of certain quadratic forms. *Duke Math. J.* 36 (1969), 425-430. (Burton W. Jones) 42 #4490

Savits, Thomas H.

The explosion problem for branching Markov process. *Osaka J. Math.* 6 (1969), 375-395. (S. R. S. Varadhan) 43 #8137

Savitzky, S. R.

(with Wegner, K. W.) Solutions of $\phi(x) = n$, where ϕ is Euler's ϕ-function. *Amer. Math. Monthly* 77 (1970), 287. (H. Gupta) 41 #5291

Savodčenko, V. S.

(with Ruhadze, A. A.; Triger, S. A.) The method of geometric optics for differential equations of the fourth order applied to low-frequency plasma oscillations. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1965, *no.* 6, 58-64. (J. E. Rosenthal) 33 #6965

Savoia, M.

(with Sawicki, J.; Tomasini, A.) Four quasi-particle excitations and two-phonon vibrational states in spherical nuclei. I. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 991-1014. (D. J. Thouless) 30 #1790

(with Bortolani, V.; Sawicki, J.) Double time-temperature Green functions for an interacting mixed system of bosons and fermions. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 36-53. (K. Kumar) 32 #3691

Savost′yanov, B. A. See Sevast′yanov, B. A.

Savu, Silvia

(with Mărgăritescu, E.; Săcuiu, I.) Un modèle d'analyse de la variance avec des applications à la détermination du nombre d'essais dans un laboratoire. Colloque sur les Techniques de Calcul et les Calculateurs (Bucharest, 1967). *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 1, 93-100. (D. R. Brillinger) 38 #5347

(with Firescu, D.; Tăutu, P.) On the distribution function of pharmacoreceptors response-time. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 35-44. (W. A. O'N. Waugh) 43 #4490

Săvulescu, Şt.

Sur une détermination des caractéristiques de la couche limite par l'utilisation de certains profils type de vitesses et de températures. *Rev. Méc. Appl.* 2 (1957), *no.* 1, 39-53. (K. Stewartson) 21 #1781

Saw, John G.

Some notes on variance-ratio tests of the general linear hypothesis. *Biometrika* 51 (1964), 508-511. (P. H. Diananda) 30 #5421

(with Chow, Bryant) The curve through the expected values of ordered variates and the sum of squares of normal scores. *Biometrika* 53 (1966), 252-255. (A. D. McLaren) 33 #8066

A conservative test for the concurrence of several regression lines and related problems. *Biometrika* 53 (1966), 272-275. (I. Olkin) 33 #8064

A non-parametric comparison of two samples one of which is censored. *Biometrika* 53 (1966), 599-602. (Author's summary) 35 #2428

(with Barnett, F. C.; Mullen, K.) Linear estimates of a population scale parameter. *Biometrika* 54 (1967), 551-554. (W. Uhlmann) 36 #7249

Sawa, Takamitsu

The exact sampling distribution of ordinary least squares and two-stage least squares estimators. *J. Amer. Statist. Assoc.* 64 (1969), 923-937. 39 #6430

Sawa, Tatuo

Sphere bundles over spheres. *Math. Rep. General Ed. Department Kyushu Univ.* 4 (1966/67), 19-22. (K. H. Mayer) 38 #5237

On absolute neighbourhood retracts of metric spaces. *Math. Rep. General Ed. Department Kyushu Univ.* 4 (1966/67), 23-25. (J. Dugundji) 38 #1653

Sawada, Katurô

(with Masterson, Kleber S., Jr.) Energy of the many-fermion normal system. *Phys. Rev.* (2) 133 (1964), A1234-A1244. (K. K. Gupta) 29 #990

(with Fukuda, Nobuyuki; Iwamoto, Fumiaki) Linearized many-body problem. *Phys. Rev.* (2) 135 (1964), A932-A944. (E. C. G. Sudarshan) 30 #1802

Variation ground-state energy of a Bose system. *Phys. Rev.* (2) 140 (1965), A1564-A1567. (F. J. Dyson) 32 #8895

Sawada, Shoji

(with Ino, Taketoshi; Matsuda, Masanori) Nucleon-nucleon scattering and f^0-meson. *Progr. Theoret. Phys.* 33 (1965), 489-499. (Authors' summary) 31 #1962

Sawada, T.

(with Barut, A. O.) The exact determination of coupling constants in terms of masses from unitarity and analyticity. *Phys. Lett.* 13 (1964), 177-180. (J. M. Charap) 32 #3493

Relation between the coupling constant and the singularity in the second sheet. I. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1126-1142. (G. Barton) 32 #8776

(with Barut, A. O.) Relation between the coupling constant and the singularity in the second sheet. II. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1531-1552. (G. Barton) 32 #8777

Can the coupling constant assume arbitrary value in the *S*-matrix theory? *Nuovo Cimento* (10) 38 (1965), 1889-1894. (J. M. Charap) 33 #8173

(with Barut, A. O.) Simultaneous analytic continuation to the second sheet in two crossed channels and the determination of coupling constants. *Phys. Lett.* 14 (1965), 248-249. (J. M. Charap) 32 #3494

Sawada, Yasuaki

(with Furuta, Yoshiomi) On the Galois cohomology group of the ring of integers in a global field and its adele ring. *Nagoya Math. J.* 32 (1968), 247-252. (F. Oort) 38 #3306

Sawada, Tetsuo

Extra restriction on the forward scattering amplitudes. *Phys. Rev. Lett.* 15 (1965), 567-571. (A. O. Barut) 32 #806

Sawaki, Sumio

(with Kotô, Satoshi) On some properties of almost-analytic tensors in an *O-space. *Ann. Mat. Pura Appl.* (4) 66 (1964), 137-153. (I. Mogi) 33 #684

On infinitesimal transformations of almost-Kählerian space and K-space. *Kōdai Math. Sem. Rep.* 16 (1964), 105-115. (Y. Tashiro) 29 #2752

(with Kotô, Satoshi) Almost complex metric spaces. (Japanese) *Sûgaku* 16 (1964), 9-18. (K. Yano) 31 #6195

(with Takamatsu, Kichiro) A characterization of almost analytic tensor fields in almost complex manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 5 (1967), 1-7. (K. Yano) 41 #946

(with Takamatsu, Kichiro) On extended almost analytic vectors and tensors in almost complex manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 4 (1967), 17-29. (S. Kobayashi) 35 #6108

(with Yano, Kentaro) Riemannian manifolds admitting a conformal transformation group. *J. Differential Geometry* 2 (1968), 161-184. (M. do Carmo) 38 #1636

(with Takagi, Hitoshi) On certain conditions for a K-space to be isometric to a sphere. *Kōdai Math. Sem. Rep.* 20 (1968), 198-208. (K. Yano) 37 #2152

(with Yano, Kentaro) Riemannian manifolds admitting an infinitesimal conformal transformation. *Kōdai Math. Sem. Rep.* 22 (1970), 272-300. (C. B. Allendoerfer) 42 #2391

(with Yano, Kentaro) Notes on conformal changes of Riemannian metrics. *Kōdai Math. Sem. Rep.* 22 (1970), 480-500. (C.-C. Hsiung) 43 #5461

Sawamura, Makoto

(with Furui, Shin-ya; Iisaka, Joji) On the isospin structure of the strange particle decays. *Progr. Theoret. Phys.* 31 (1964), 1044-1065. (Authors' summary) 31 #3061

(with Furui, S.; Furuichi, S.; Imoto, M.; Ishida, S.; Kawasaki, S.) Boson levels and composite model in U_4 symmetry. *Nuovo Cimento* (10) 36 (1965), 206-214. (Authors' summary) 32 #8819

Sawaragi, Yoshikazu

(with Sunahara, Yoshifumi; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. I. Nonsequential decision system. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 127-140. (D. D. Sworder) 31 #6724

(with Sunahara, Yoshifumi; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. II. Sequential decision system. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 141-155. (D. D. Sworder) 31 #6725

(with Sunahara, Yoshifumi; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. III. Adaptive adjustment of parameters. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 157-167. (D. D. Sworder) 31 #6726

(with Sunahara, Yoshifumi; Ono, Toshiro) A study on dynamic optimization of control systems with Gaussian random inputs. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 14 (1964), 61-87. (R. S. Bucy) 32 #1055

(with Sunahara, Yoshifumi; Hirakawa, Kenji) On the statistical analysis of non-linear time-variant control systems by using a method of integral transformation. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 115 (1965), 19 *pp.* (T. Kailath) 33 #5390

(with Sunahara, Yoshifumi; Ono, Toshiro) A sub-optimal approach to the synthesis of optimum non-linear control systems with magnitude constraint. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 115 (1965), 20 *pp.* 31 #4684

(with Sunahara, Yoshifumi; Ono, Toshiro; Inoue, Koichi) A study on statistical synthesis of optimal final-value control systems under the random environment. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 116 (1965), 16 *pp.* (Authors' summary) 31 #4688

(with Sunahara, Yoshifumi; Hara, Kei) On a method of evaluating the non-stationary response of time-variant non-linear control systems with a dead time. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 127 (1966), 16 *pp.* (Authors' summary) 40 #2412

(with Sunahara, Yoshifumi; Hara, Kei) Stability analysis of non-linear control systems with a dead time subjected to a stationary random input. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 128 (1966), 19 *pp.* (Authors' summary) 39 #7974

(with Inoue, Koichi; Asai, Ko) Sub-optimal relay control systems for non-linear plants with chattering-less switching line. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 90-97. (Authors' summary) 42 #4266

(with Ono, Toshiro; Matsui, Yoshiharu) A study on the sub-optimal control of nonlinear systems by the method of instantaneous linearization. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 131-138. (Authors' summary) 42 #4267

(with Nakamizo, Takayoshi; Ohe, Yasuharu) On the mean square stability of linear systems with random parametric excitation. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 191-200. (Authors' summary) 42 #3376

(with Ono, Toshiro; Inoue, Koichi) On state-adaptive criterion approach to nonlinear control systems design. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 324-333. (Authors' summary) 42 #4302

(with Katayama, Tohru) On the estimation of state variables for noisy discrete-time nonlinear dynamical systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 361-368. (Authors' summary) 42 #4294

(with Katayama, Tohru) On the parameter estimation for noisy discrete-time nonlinear dynamical systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 369-377. (Authors' summary) 42 #4295

(with Fukawa, Hiroshi; Katsuma, Shoichiro) Condition for determining the superiority of static or dynamic operation--For two dimensional nonlinear systems with controls appearing linearly. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 402-410. (Authors' summary) 42 #4268

(with Sunahara, Yoshifumi; Hara, Kei) An analysis of nonstationary response of non-linear control systems with dead time subjected to a suddenly applied random disturbance with mean value. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 523-531. (Authors' summary) 42 #4296

(with Inoue, Koichi) Sensitivity considerations in linear optimum control systems design. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 590-598. (Authors' summary) 42 #4269

(with Tanaka, Teruo; Kogita, Yoshifumi) The phase plane analysis of on-off control system with series compensation. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 599-610. (Authors' summary) 42 #5680

(with Inoue, Koichi; Asai, Koh) Control system synthesis by sensitivity considerations. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 628-636. (Authors' summary) 42 #4270

(with Shima, Masasuke) On the conditions under which static optimum control can be improved by dynamic controls. (Three dimensional control system which contains control variables linearly). (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 637-645. (Authors' summary) 42 #4271

(with Yoshikawa, Tsuneo) Suboptimal control of systems with unknown parameters. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 657-668. (Authors' summary) 42 #5683

(with Inoue, Koichi) A fundamental study on the computing time delay in computer control systems. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 131 (1967), 14 *pp.* (Authors' summary) 40 #1059

(with Katayama, Tohru) On the estimation of state variables for noisy discrete-time nonlinear dynamical systems. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 132 (1967), 15 *pp.* (Authors' summary) 40 #1178

(with Katayama, Tohru) On the parameter estimation for noisy discrete-time nonlinear dynamical systems. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 135 (1967), 22 *pp.* (J. Kiefer) 41 #4765

(with Katayama, Tohru) On the estimation of time-varying parameters for noisy nonlinear systems with applications to adaptive control. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 326-334. (Authors' summary) 42 #4303

(with Yoshikawa, Tsuneo) On upper and lower bounds for the performance of stochastic and adaptive control processes. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 463-472. (Authors' summary) 42 #4297

(with Inoue, Koichi; Itoh, Toshiaki) Sensitivity analysis and its application in optimal control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 538-546. (Authors' summary) 42 #4272

(with Yoshikawa, Tsuneo) On upper and lower bounds for performance of stochastic and adaptive control processes. II. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 661-669. (Authors' summary) 42 #5694

(with Yoshikawa, Tsuneo) Performance bounds for discrete-time stochastic optimal control problems. *Internat. J. Control* (1) 10 (1969), 481-500. (R. S. Bucy) 40 #8460

(with Yoshikawa, Tsuneo; Ito, Koh-ichi) On the relation between performance indexes and sampling periods of digital control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 94-102. (Authors' summary) 42 #4273

(with Inoue, Koichi; Oh-ki, Takahira) Sensitivity synthesis of optimal control under changes of system order. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 217-224. (Authors' summary) 42 #4274

(with Katayama, Tohru) On the accuracy of approximate state and parameter estimation technique for nonlinear systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 505-512. (Authors' summary) 42 #7356

(with Tanaka, Teruo; Uchiyama, Hironobu) The phase plane analysis of on-off control system with series compensation. II. Approximate proportional-derivative type compensation. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 588-595. (Authors' summary) 42 #5681

(with Ono, Toshiro; Inamoto, Atsushi) A feasible optimization method for the optimal control problem of complex systems. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 144 (1969), 19 *pp.* (D. F. Lawden) 40 #1173

(with Yoshikawa, Tsuneo) Discrete-time Markovian decision processes with incomplete state observation. *Ann. Math. Statist.* 41 (1970), 78-86. (J. R. Kinney) 41 #6343 (with Ito, Koh-ichi; Matsumoto, Jusei) Optimal control of distributed parameter systems with spatially concentrated controls. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 131-137. (From the authors' summary) 42 #7348

(with Yonezawa, Yoo; Tanaka, Teruo; Kogita, Yoshifumi) Study on the self-oscillation in an improved on-off control system. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 263-271. (Authors' summary) 42 #5682

(with Inoue, Koichi; Ogino, Katsuya) Sensitivity synthesis of optimal input for parameter identification. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 675-682. (Authors' summary) 42 #4259

(with Shima, Masasuke) On the optimality of the boundary control for the non-linear control system with controls appearing linearly. *Internat. J. Control* (1) 13 (1971), 131-143. (M. Q. Jacobs) 44 #5849

(with Fukawa, Hiroshi; Katsuma, Shoichiro) Optimal control problem of the one-dimensional nonlinear control system with a control variable appearing linearly. (Japanese. English summary) *Systems and Control* 15 (1971), 148-154. (Authors' summary) 43 #8421

Sawashima, Ikuko

(with Itô, Seizô) On linear measure of projections of two-dimensional sets to arbitrary straight line. *Natur. Sci. Rep. Ochanomizu Univ.* 15 (1964), 33-40. (P. V. Reichelderfer) 29 #5982

On spectral properties of some positive operators. *Natur. Sci. Rep. Ochanomizu Univ.* 15 (1964), 53-64. (F. F. Bonsall) 32 #4550

Some counter examples in the theory of positive operators. *Sci. Papers College Gen. Ed. Univ. Tokyo* 14 (1964), 181-182. (H. H. Schaefer) 30 #2327

An application of spectral properties of non-support operators to a theorem of S. Karlin. *Natur. Sci. Rep. Ochanomizu Univ.* 16 (1965), 1-8. (K. Yosida) 33 #6454

On spectral properties of positive irreducible operators in $C(S)$ and a problem of H. H. Schaefer. *Natur. Sci. Rep. Ochanomizu Univ.* 17 (1966), 1-15. (H. H. Schaefer) 34 #4918

(with Niiro, Fumio) On positive irreducible operators in an arbitrary Banach lattice and a problem of H. H. Schaefer. *Proc. Japan Acad.* 42 (1966), 677-681. (H. H. Schaefer) 34 #8188

(with Niiro, Fumio) On the spectral properties of positive irreducible operators in an arbitrary Banach lattice and problems of H. H. Schaefer. *Sci. Papers College Gen. Ed. Univ. Tokyo* 16 (1966), 145-183. (H. H. Schaefer) 34 #4919

Sawczuk, Antoni

On initiation of the membrane action in rigid-plastic plates. *J. Mécanique* 3 (1964), 15-23. (J. W. Craggs) 29 #1818

Sawhney, Mathura D.

The computation of eigenvalues. I. Real symmetric matrices. *J. Soc. Indust. Appl. Math.* 12 (1964), 726-733. (F. L. Bauer) 30 #4380

Sawicki, J.

Problemi di molti corpi. *Nuovo Cimento Suppl.* (1) 1 (1963), 151-157. (G. F. Dell'Antonio) 32 #5262

(with Savoia, M.; Tomasini, A.) Four quasi-particle excitations and two-phonon vibrational states in spherical nuclei. I. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 991-1014. (D. J. Thouless) 30 #1790

(with Savoia, M.; Bortolani, V.) Double time-temperature Green functions for an interacting mixed system of bosons and fermions. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 36-53. (K. Kumar) 32 #3691

Sawin, G. See Savin, G. M.

Sawoń, Z.

(with Warzecha, A.) On the general form of subalgebras of codimension 1 of B-algebras with a unit. *Studia Math.* 29 (1968), 249-260. (P. Civin) 37 #1995

The sets of convergence of power series in B_0-algebras. *Studia Math.* 30 (1968), 135-140. (M. Nakamura) 40 #4763

On a certain property of the Shilov boundary. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 655-660. (G. R. Allan) 41 #2400

On a property of the Haar measure. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 733-739. (A. Revuz) 43 #3425

Saworotnow, Parfeny P.

On continuity of multiplication in a complemented algebra. *Pacific J. Math.* 14 (1964), 1399-1403. (B. Yood) 30 #2361 (E)

On a realization of a complemented algebra. *Proc. Amer. Math. Soc.* 15 (1964), 964-966. (B. Yood) 29 #6331 (E)

Correction to: "On continuity of multiplication in a complemented algebra". *Pacific J. Math.* 15 (1965), 1474. (Editors) 32 #2929

Errata to: "On a realization of a complemented algebra". *Proc. Amer. Math. Soc.* 16 (1965), 1417. (Editors) 32 #1571

On two-sided H^*-algebras. *Pacific J. Math.* 16 (1966), 365-370. (R. Arens) 32 #4562

Discrete complemented algebra. *Proc. Amer. Math. Soc.* 17 (1966), 499-501. (J. G. Horne) 33 #3124

A generalized Hilbert space. *Duke Math. J.* 35 (1968), 191-197. (V. K. Balachandran) 37 #3333

Representation of a topological group on a Hilbert module. *Duke Math. J.* 37 (1970), 145-150. (V. K. Balachandran) 41 #7442

Representation of a complemented algebra on a locally compact space. *Illinois J. Math.* 14 (1970), 674-677. (P. C. Deliyannis) 43 #2514

(with Friedell, John C.) Trace-class for an arbitrary H^*-algebra. *Proc. Amer. Math. Soc.* 26 (1970), 95-100. (G. Maltese) 42 #2304

Trace-class and centralizers of an H^*-algebra. *Proc. Amer. Math. Soc.* 26 (1970), 101-104. (G. Maltese) 42 #2305

Bochner-Raikov theorem for a generalized positive definite function. *Duke Math. J.* 38 (1971), 117-121. (S. S. Holland, Jr.) 43 #940

(with Giellis, George R.) Continuity and linearity of centralizers on a complemented algebra. *Proc. Amer. Math. Soc.* 31 (1972), 142-146. (B. E. Johnson) 44 #5781

Generalized positive linear functionals on a Banach algebra with an involution. *Proc. Amer. Math. Soc.* 31 (1972), 299-304. (A. M. Sinclair) 44 #4528

Sawyer, D. B.

Convex bodies and the diagonal group. *J. London Math. Soc.* 41 (1966), 466-468. (G. D. Chakerian) 33 #6503

Lattice points in rotated star sets. *J. London Math. Soc.* 43 (1968), 131-142. (H. J. Godwin) 37 #1320

Sawyer, Jane

(with Fletcher, Peter) Incompressible topological spaces. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 299-302. (S. Mardešić) 40 #8008

Sawyer, Raymond F.

Nonrenormalizability and the short-range force in some field-theoretic models. *Phys. Rev.* (2) 134 (1964), B448-B453. (B. W. Lee) 31 #5515

Johnson-Treiman relations from vector-meson exchange. *Phys. Rev. Lett.* 14 (1965), 471-472. (P. Singer) 31 #4438

Dynamical question bearing on calculations of mass shifts in S-matrix theory. *Phys. Rev.* (2) 142 (1966), 991-995. (Rodney E. Kreps) 33 #3655

Sawyer, Stanley A.

On inequalities of weak type. *Bull. Amer. Math. Soc.* 70 (1964), 637-641. (A. Browder) 30 #223

(with Garsia, A. M.) On some classes of continuous functions with convergent Fourier series. *J. Math. Mech.* 13 (1964), 589-601. (K. Tandori) 33 #7777

Maximal inequalities of weak type. *Ann. of Math.* (2) 84 (1966), 157-174. (R. A. Hirschfeld) 35 #763

A uniform rate of convergence for the maximum absolute value of partial sums in probability. *Comm. Pure Appl. Math.* 20 (1967), 647-658. (S. M. Samuels) 36 #936

Some topological properties of the function $n(y)$. *Proc. Amer. Math. Soc.* 18 (1967), 35-40. (W. F. Pfeffer) 34 #2789

Uniform limit theorems for the maximum cumulative sum in probability. *Trans. Amer. Math. Soc.* 132 (1968), 363-367. (S. M. Samuels) 36 #7185

A formula for semigroups, with an application to branching diffusion processes. *Trans. Amer. Math. Soc.* 152 (1970), 1-38. (K. Dietz) 42 #1226

Sawyer, Walter Warwick

* Eine konkrete Einführung in die abstrakte Algebra. Aus dem Englischen übersetzt von Peter Bundschuh. B. I-Hochschultaschenbücher, 492/492a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1970. 204 *pp.* (Editors) 41 #8185

Saxena, Ashok

On Nörlund summability of the conjugate series of a Fourier series. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 222-228. (J. A. Siddiqi) 33 #6287

An aspect of local property of absolute summability of the derived series of a Fourier series. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 263-272. (F. Ustina) 35 #661

On uniform harmonic summability of Fourier series and its conjugate series. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 303-310 (1966). (A. Meir) 33 #4590

An aspect of local property of absolute Nörlund summability of the conjugate series of a Fourier series. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 183-191. (G. M. Petersen) 33 #7789

On uniform Nörlund summability of Fourier series. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 502-508. (Y. M. Chen) 40 #4675

Localization relating to the summability $|R,\lambda_n,1|$ of the conjugate series of a Fourier series. *Rend. Circ. Mat. Palermo* (2) 15 (1966), 319-330. (L. Leindler) 38 #2521

Saxena, Ashok K.

A note on classification. *Ann. Math. Statist.* 38 (1967), 1592-1593. (K. G. Jöreskog) 35 #7500

Saxena, K. M. Lal

(with Savage, I. R.) Monotonicity of rank order likelihood ratio. *Ann. Inst. Statist. Math.* 21 (1969), 265-275. (T. A. Willke) 41 #2854

Saxena, K. M. S.

(with Malli, Gulzari) A tabulation of the 6-j symbols. *Canad. J. Phys.* 47 (1969), 2811-2814. (Editors) 40 #2313

Saxena, K. P.

(with Gupta, V. P.) A note on Asano's theorem on inference of variance. (Spanish summary) *Trabajos Estadíst.* 17 (1966), cuad. 1, 53-60. (R. G. Stanton) 34 #3705

(with Srivastava, S. R.) Inference for a linear hypothesis model using two preliminary tests of significance. *Bull. Math. Statist.* 14 (1970), *no.* 1-2, 83-102. 43 #4190

Saxena, R. B.

Some interpolatory polyhomials on Tchebycheff abscissas. I. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 77-87. (P. J. Davis) 30 #1343

On some interpolatory properties of Legendre polynomials. III. *Bŭlgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 8 (1964), 63-94. (Gabor Szegö) 30 #4005

Remark on a convergence theorem of (0,1,2,4) interpolation. *J. Indian Math. Soc. (N.S.)* 29 (1965), 135-141. (E. Frank) 33 #467

Stability of interpolation on an infinite interval. *Canad. Math. Bull.* 9 (1966), 655-666. (A. Sharma) 34 #6391

Expansion of continuous differentiable functions in Fourier Legendre series. *Canad. J. Math.* 19 (1967), 823-827. (K. Tandori) 35 #3360

(with Prasad, J.) Some interpolatory properties of Laguerre polynomials. *Canad. Math. Bull.* 10 (1967), 559-571. (R. A. Askey) 37 #4465

(with Mathur, K. K.) On the convergence of quasi-Hermite-Fejér interpolation. *Pacific J. Math.* 20 (1967), 245-259. (Gabor Szegö) 34 #4760

On a polynomial of interpolation. *Studia Sci. Math. Hungar.* 2 (1967), 167-183. (Gabor Szegö) 35 #4651

On the convergence and divergence behavior of Hermite-Fejer and extended Hermite-Fejer interpolations. *Univ. e Politec. Torino Rend. Sem. Mat.* 27 (1967/68), 223-235. (T. J. Rivlin) 41 #689

The approximation of continuous functions by interpolatory polynomials. (Bulgarian and Russian summaries) *B"lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Mat. Inst.* 12 (1970), 97-105. (T. Bojanov) 43 #7822

Saxena, R. K.

A thoerem on generalised Laplace transform. *Bull. Calcutta Math. Soc.* 53 (1961), 155-160. (G. Doetsch) 29 #2603

Integrals involving G-functions. *Ann. Soc. Sci. Bruxelles Sér. I* 78 (1964), 157-162. (M. J. O. Strutt) 30 #4003

(with Sharma, B. L.) Integral representations for the hypergeometric functions of three variables. *Ann. Soc. Sci. Bruxelles Sér. I* 78 (1964), 163-170. (M. J. O. Strutt) 30 #4002

Certain properties of Varma transform involving Whittaker functions. *Collect. Math.* 16 (1964), 193-200. (V. P. Mainra) 33 #1668

Integrals involving MacRobert's E-functions and hypergeometric functions. *Indian J. Math.* 6 (1964), 117-120. (J. S. Goldstein) 32 #2848

On some results involving Jacobi polynomials. *J. Indian Math. Soc. (N.S.)* 28 (1964), 197-202 (1965). (B. R. Bhonsle) 32 #5951

Integrals involving products of Bessel functions. *Proc. Glasgow Math. Assoc.* 6, 130-132 (1964). (From the author's introduction) 29 #3684

Some theorems on Laplace transform. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 230-234. (G. Doetsch) 30 #2299

(with Gupta, K. C.) Certain properties of generalized Stieltjes transform involving Meijer's G-function. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 707-714. (R. S. Varma) 33 #4616

(with Gupta, K. C.) On Laplace transform. *Riv. Mat. Univ. Parma* (2) 5 (1964), 159-164. (G. Doetsch) 33 #6303

Certain integral representation for hypergeometric and confluent hypergeometric functions. *~~Vikram Quart.~~ Res. J. Vikram Univ.* 8 (1964), *no.* 1 & 3, 1-5. (B. S. Tavathia) 44 #4250

Some formulae for the associated Legendre function of the first kind. *Proc. Nat. Acad. Sci. India Sect. A* 35 (1965), 19-24. (Y. L. Luke) 32 #7801

Some theorems on generalized Laplace transform. III. *Riv. Mat. Univ. Parma* (2) 6 (1965), 135-146. (H. A. Lauwerier) 36 #5620

Recurrence formulae for the hypergeometric functions of three variables. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 8 (1965), 149-155. (Author's summary) 39 #7158

A generating function for Jacobi polynomials. *Canad. Math. Bull.* 9 (1966), 209-213. (A. E. Danese) 33 #4344

On the reducibility of Appell's function F_4. *Canad. Math. Bull.* 9 (1966), 215-222. (A. E. Danese) 33 #4345

A note on a paper of Saxena. *Math. Ann.* 166 (1966), 327. (L. Carlitz) 34 #3238

(with Mathai, A. M.) On a generalized hypergeometric distribution. *Metrika* 11 (1966), 127-132. (Bernard Harris) 34 #8529

Integrals involving products of Bessel functions. II. *Monatsh. Math.* 70 (1966), 161-163. (H. M. Srivastava) 33 #5960

An inversion formula for a kernel involving a Mellin-Barnes type integral. *Proc. Amer. Math. Soc.* 17 (1966), 771-779. (G. Doetsch) 33 #4617

An inversion formula for the Varma transform. *Proc. Cambridge Philos. Soc.* 62 (1966), 467-471. (G. Doetsch) 33 #4613

An integral involving products of G-functions. *Proc. Nat. Acad. India Sect. A* 36 (1966), 47-48. (Author's summary) 40 #5921

(with Sharma, Bhagirath Lal) Integrals involving Appell's functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 73-80. (Authors' summary) 40 #4491

On fractional integration operators. *Math. Z.* 96 (1967), 288-291. (H. Kober) 35 #675

On the formal solution of dual integral equations. *Proc. Amer. Math. Soc.* 18 (1967), 1-8. (C. Fox) 34 #4831

A formal solution of certain dual integral equations involving H-functions. *Proc. Cambridge Philos. Soc.* 63 (1967), 171-178. (C. Fox) 34 #6456

(with Mathur, S. N.) Integrals involving products of generalized hypergeometric functions. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 10 (1967), 107-111. (P. N. Rathie) 39 #7159

(with Mehra, K. N.) On a generalized Stieltjes transform. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 10 (1967), 121-126. (P. N. Rathie) 39 #7355

(with Mathai, A. M.) A short table of the generalized hypergeometric distribution. *Metrika* 14 (1968), 21-39. 38 #3952

(with Mathur, S. N.) Some integrals involving hypergeometric functions. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 5-9. (S. L. Kalla) 41 #522

(with Vyas, R. C.) Integrals involving products of Bessel, Whittaker and generalized hypergeometric functions. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 103-107. (P. Anandani) 41 #2068

(with Mathai, A. M.) Distribution of a product and the structural set up of densities. *Ann. Math. Statist.* 40 (1969), ~~1439-1~~448. (H. E. Reinhardt) 39 #6429

(with Kalla, S. L.) Integral operators involving hypergeometric functions. *Math. Z.* 108 (1969), 231-234. (H. Kober) 39 #3254

A new genrating function for Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 66 (1969), 345-347. (Brij Mohan) 39 #7178

(with Kaufman, H.; Mathai, A. M.) Distributions of random variables with random parameters. *South African Statist. J.* 3 (1969), 1-7. 43 #1305

(with Bhagchandani, L. K.) An expansion formula for hypergeometric functions of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 201-204. (H. M. Srivastava) 41 #7165; erratum, 42, p.1825

(with Agrawal, I.) Integrals involving Bessel functions. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 245-254. (F. W. J. Olver) 41 #3830

Integrals involving Kampé de Fériet function and Gauss's hypergeometric function. *Ricerca (Napoli)* (2) 21 (1970), *maggio-agosto*, 21-27. (H. M. Srivastava) 44 #484

Saxena, R. K.

On self reciprocal functions involving two complex variables. *Gaṇita* 15 (1964), 19-30. (A. Erdélyi) 32 #8065

Relation between Whittaker transform and modified $\chi_{\upsilon,k,m}$-transform. *Math. Ann.* 154 (1964), 301-306. (P. Heywood) 29 #1505

Definite integrals involving self-reciprocal functions. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 326-336. (C. Fox) 40 #3203

Certain integral equations and self-reciprocal functions. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 179-186. (P. Anandani) 40 #6195

On the solution of dual integral equations. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 313-319. (J. C. Cooke) 44 #3091

Saxena, R. S.

(with Bhargava, R. D.) Integral equation method of solving two-dimensional Laplace equation. I. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 4, 552-564. (4 *tables*) (G. T. Symm) 43 #2857

(with Bhargava, R. D.) Integral equation method of solving two-dimensional Laplace equation. II. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 2, 246-256. (G. T. Symm) 44 #3505

Saxena, S. C.

Hyplanes of order (n,m). *Progr. Math. (Allahabad)* 1 (1967), *no.* 2, 36-38. (R. Moufang) 37 #6828

Saxena, Vinod Prakash

On some rules of operational calculus. *Gaṇita* 18 (1967), *no.* 2, 17-24. (Editors) 39 #1914; erratum, 39, p. 1594

(with Agrawal, B. M.) The solution of a general integral equation. *Math. Student* 37 (1969), 71-74. (S. D. Bajpai) 42 #3498

Inversion formulae to certain integral equations involving H-function. *Portugal. Math.* 29 (1970), 31-42. (S. D. Bajpai) 43 #6680

Saxon, Stephen A.

(with Levin, Mark) Every countable-codimensional subspace of a barrelled space is barrelled. *Proc. Amer. Math. Soc.* 29 (1971), 91-96. (E. Dubinsky) 43 #6691

(with Levin, Mark) A note on the inheritance of properties of locally convex spaces by subspaces of countable codimension. *Proc. Amer. Math. Joc.* 29 (1971), 97-102. (E. Dubinsky) 43 #6692

(with Diestel, Joseph; Morris, Sidney A.) Varieties of locally convex topological vector spaces. *Bull. Amer. Math. Soc.* 77 (1971), 799-803. (S. O. Iyahen) 43 #7901

Sayama, Hayatoshi

(with Oi, Ko) Nonlinear programming and some of its applications. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 565-573. (Editors) 42 #4205

(with Takamatsu, Takeichiro; Oh-i, Ko) Optimal design of extraction processes by second-order convergence gradient methods. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 313-321. (Authors' summary) 42 #5431

(with Takamatsu, Takeichiro; Oh-i, Ko) Some consideration on one dimensional search in gradient method. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 596-604. (Authors' summary) 42 #3992.

Sayeed-ur-Rahman

(with Fettis, Henry E.) Table errata: ***Higher transcendental functions, Vol. II.*** *Math. Comp.* 24 (1970), 239. (Editors) 41 #2058

Sayeki, Hidemitsu

Some consequences of the normality of the space of models. *Fund. Math.* 61 (1967/68), 243-251. (J. R. Büchi) 36 #4975

Sayer, F. P.

A problem of a thin circular plate transversely loaded and rigidly held on its boundary. *Proc. Cambridge Philos. Soc.* 61 (1965), 289-293. (J. W. Craggs) 30 #760

A note on a moment theory of bending. *J. London Math. Soc.* 43 (1968), 597-600. (B. R. Seth) 37 #6066

Sayied, Abul Maksud

Galois theory for the family of partial differential equations $\Delta_\alpha \psi = 0$. *Math. Z.* 114 (1970), 22-32. (R. Cohn) 41 #6825

Saylor, D. P.

(with Gammel, J. L.; Rousseau, C. C.) A generalization of Padé approximant. *J. Math. Anal. Appl.* 20 (1967), 416-420. (John Todd) 36 #4783

Saylor, Paul E.

A priori estimates for continuation problems for elliptic and principally normal differential equations. *Trans. Amer. Math. Soc.* 139 (1969), 95-108. (M. Hervé) 39 #610

Saylor, Richard

Numerical elliptic continuation. *SIAM J. Numer. Anal.* 4 (1967), 575-581. (J. R. Cannon) 36 #5513

Positive solutions of elliptic partial differential equations. *J. Math. Anal. Appl.* 21 (1968), 162-168. (C. B. Morrey, Jr.) 36 #5512

Time reversal in abstract Cauchy problems. *SIAM J. Math. Anal.* 2 (1971), 454-457. (H. Kumano-go) 44 #5824

Sayre, Kenneth M.

Propositional logic in Plato's Protagoras. *Notre Dame J. Formal Logic* 4 (1963), 306-312. 29 #2161

el-Sayyad, G. M. See El-Sayyad, G. M.

Šažaliev, T.

(with Bykov, Ja. V.) The solvability of the Cauchy problem for loaded ordinary differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 1, 7-11. (K. Schmitt) 44 #5581

Sazonov, A. I.

(with Klement'ev, A. F.) On difference equations with "superhigh" precision for the diffusion equation. (Russian) *Baškir Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 69-71. (H. J. Stetter) 34 #2218

Sazonov, D. M.

(with Frolov, N. Ja.) Electromagnetic excitation of a spherical radially stratified medium. *Ž. Tehn. Fiz.* 35 (1965), 990-995 *(Russian); translated as Soviet Physics Tech. Phys.* 10 (1965), 763-767. (Y. Shimizu) 32 #8690

Sazanov, V. S.

A class of spaces L_n^0 with completely reducible isotropy group. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 6 (61), 101-108. (M. Kucharzewski) 35 #7255

Riemannian spaces with intransitive automorphism group. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 7 (74) 93-96. (B. Cenkl) 40 #853.

Sazonov, V. V.

Several remarks on characteristic functionals of generalized measures. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp.* 449-454. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (J. L. Doob) 32 #2897

On characteristic functionals. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960), pp.* 455-462. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (R. G. Laha) 32 #6517

Some results on perfect measures. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960), pp.* 463-469. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (J. L. Doob) 32 #4724

On perfect measures. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 26 (1962), 391-414. (H. Fast) 31 #5956

Distributions in spaces which are dual to an ordered linear space. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 102-103. (J. H. B. Kemperman) 31 #5073

On the limit behavior of the maximal probability in the infinite-dimensional case. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 753-754. (F. L. Spitzer) 33 #1875

(See also Niven, Ivan, 35 #5395)

(with Tutubalin, V. N.) Probability distributions on topological groups. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 3-55. (I. Csiszár) 33 #8012

Multi-dimensional concentration functions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 683-690. (J. E. Cigler) 35 #1062

Behavior of the maximal probability in the case of convolution of lattice distributions in the infinite-dimensional case. (Russian) *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 519-526. *Academia, Prague,* 1967. (F. L. Spitzer) 36 #918

On estimation of the rapidity of convergence in the multidimensional contral limit theorm. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 82-95. (F. L. Spitzer) 35 #2326

Investigations on multidimensional and infinite-dimensional limit theorems of probability theory. (Russian) *Mat. Zametki* 4 (1968), 611-619. (Editors) 38 #5273

On the multi-dimensional central limit theorem. *Sankhyā Ser. A* 30 (1968), 181-204. (M. B. Woodroofe) 38 #5272

On ω^2 criterion. *Sankhyā Ser. A* 30 (1968), 205-210. (Richard A. Johnson) 38 #3984

The rate of convergence in the multidimensional central limit theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 191-194. (R. G. Laha) 37 #2302

(See also Neveu, Jacques, 40 #902)

An improvement of a certain estimate of the rate of convergence. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 667-678. (M. Iosifescu) 41 #7751

Sborgi, Carla

(See Bolzano, Bernard, 34 #11)

Sburlan, S.

(with Arsene, C.) A method for the approximate solving of some limit problems based on the quadratic programming. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 665-674. (G. Opfer) 41 #7856

Scabia, Maria Luisa Dalla Chiara. See Dalla Chiara Scabia, Maria Luisa.

Scacciatelli, E.

(with Camiz, P.; Gerardi, A.; Marchioro, C.; Presutti, E.) Exact solution of a time-dependent quantal harmonic oscillator with a singular perturbation. *J. Mathematical Phys.* 12 (1971), 2040-2043. (P. Achuthan) 44 #5031

Scadron, M.

(with Wright, J.) A variational method for finding eigenvalues of the Lippmann-Schwinger equation and the corresponding Regge trajectories. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1571-1581. (S. T. Kuroda) 30 #2845

(with Weinberg, S.) Potential theory calculations by the quasiparticle method. *Phys. Rev.* (2) 133 (1964), B1589-B1596. (W. M. Frank) 29 #1895

(with Weinberg, S.; Wright, J.) Functional analysis and scattering theory. *Phys. Rev.* (2) 135 (1964), B202-B207. (S. T. Kuroda) 30 #2844

Scadron, Michael D.

(with Csonka, P. L.; Moravcsik, M. J.) Parity determination in particle physics. *Phys. Lett.* 15 (1965), 353-355. (S. Gasiorowicz) 32 #5175

(with Csonka, Paul L.; Moravcsik, Michael J.) Nonexistence of parity experiments in multiparticle reactions. *Phys. Rev. Lett.* 14 (1965), 861-862. (G. Feinberg) 31 #4426

Scafati, Maria. See Tallini Scafati, Maria.

Scafati, Maria Tallini. See Tallini Scafati, Maria.

Scalia, A.

(with Gutkowski, D.) Analytic properties of a class of nonlocal interactions. I, II. *J. Mathematical Phys.* 9 (1968), 588-592; *ibid.* 10 (1969), 2306-2318. (S. Rosendorff) 42 #5544

(with Gutkowski, D.) Analytic properties and bound-state degeneracy in nonlocal potentials. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 641-661. (H. Ezawa) 44 #1336

Scalia, M.

(with D'Andrea, A.) A group-theoretical analysis of β-decays of some $j = 3/2$ light nuclei. (Italian and Russian summaries) *Nuovo Cimento A* (10) 69 (1970), 702-711. (Jean Nuyts) 42 #5530

Scanlan, Gerry

(with Ludwig, Garry) Classification of the Ricci tensor. *Comm. Math. Phys.* 20 (1971), 291-300. (P. C. Vaidya) 43 #2969

Scanlon, C. H.

Rings of functions with certain Lipschitz properties. *Pacific J. Math.* 32 (1970), 197-201. (J. D. Stein, Jr.) 40 #6268

Scaravelli, Corrado

Su i polinomi di Appell. (English summary) *Riv. Mat. Univ. Parma* (2) 6 (1965), 103-116. (R. P. Boas, Jr.) 36 #440

Equazioni ricorrenti lineari ed equazioni differenziali lineari, per i polinomi di Appell. (English summary) *Riv. Mat. Univ. Parma* (2) 7 (1966), 295-304. (M. J. O. Strutt) 38 #4735

Polinomi di Appell nel senso del calcolo delle differenze finite. (English summary) *Riv. Mat. Univ. Parma* (2) 8 (1967), 355-366. (I. Fenyő) 40 #582

Su la risoluzione di una classe di equazioni alle differenze finite. (English summary) *Riv. Mat. Univ. Parma* (2) 9 (1968), 261-274. (P. Drăgilă) 41 #7318

Scarborough, C. T.

(with Stone, A. H.) Products of nearly compact spaces. *Trans. Amer. Math. Soc.* 124 (1966), 131-147. (G. E. Strecker) 34 #3528

(with Stephenson, R. M.) Minimal topologies. *Colloq. Math.* 19 (1968), 215-219. (H. Herrlich) 37 #3522

Minimal Urysohn spaces. *Pacific J. Math.* 27 (1968), 611-617. (L. O. Cannon) 38 #6530

Closed graphs and closed projections. *Proc. Amer. Math. Soc.* 20 (1969), 465-470. (S. P. Franklin) 40 #3514

Scarborough, James B.

* Numerical mathematical analysis. Fifth edition. *The Johns Hopkins Press, Baltimore, Md; Oxford University Press, London;* 1962. xxi + 594 *pp.* (Editors) 31 #1758

* Differential equations and applications for students of mathematics, physics, and engineering. *Waverly Press, Inc., Baltimore, Md.*, 1965. xiv + 479 *pp.* (P. F. Hsieh) 31 #4940

* Numerical mathematical analysis. Sixth edition. *The Johns Hopkins Press, Baltimore, Md.*, 1966. xxi + 600 *pp.* (Editors) 33 #6806

Scarf, Frederick L.

A soluble quantum field theory in curved space. (French summary) *Les théories relativistes de la gravitation (Royaumont, 1959), pp.* 421-428. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2057

(with Margulies, R. S.) Electromagnitic scattering from a spherical nonuniform medium. II. The radar cross section of a flare. *IEEE Trans. Antennas and Propagation* AP-12 (1964), 91-96. (E. T. Kornhauser) 29 #905

Scarf, Herbert E.

A survey of analytic techniques in inventory theory. *Multi-stage Inventory Models and Techniques, pp.* 185-225. *Stanford Univ. Press, Stanford, Calif.*, 1963. 32 #3872

The core of an *N* person game. *Econometrica* 35 (1967), 50-69. (W. F. Lucas) 38 #3051

The approximation of fixed points of a continuous mapping. *SIAM J. Appl. Math.* 15 (1967), 1328-1343. (K. J. Arrow) 39 #3814

Scarfiello, Roque

On the Fourier series of the distribution vp 1/2 cotg 1/2*x*. (Spanish) *Rev. Un. Mat. Argentina* 20 (1962), 146-154. (J. Horváth) 31 #3861

Scarfone, Leonard M.

Lehmann-Symanzik-Zimmermann formalism in a model field theory. *J. Mathematical Phys.* 7 (1966), 159-162. (G. Källén) 32 #6963

(with Brooks, G. L., Jr.) Multiple-time-scale perturbation theory and constant atomic transition rates. *Phys. Rev.* (2) 185 (1969), 82-89. (T. Sasakawa) 41 #3028

Scargle, Jeffrey D.

(with Frost, Arthur A.; Harriss, Donald K.) Approximate series solutions of nonseparable Schrödinger equations. III. B matrix method. *J. Chem. Phys.* 41 (1964), 489-494. (Authors' summary) 29 #994

Scarinci, C.

(with Marzollo, A.) Unitary symmetry and parity conservation. *Nuclear Phys.* 56 (1964), 380-384. (S. P. Rosen) 31 #3103

Scarpellini, Bruno

Eine Anwendung der unendlichwertigen Logik auf topologische Räume. *Fund. Math.* 52 (1963), 129-150. (J. E. Fenstad) 34 #8378a

Errata zur Arbeit "Eine Anwendung der unendlichwertigen Logik auf topologische Räume". *Fund. Math.* 53 (1963/64), 345. (J. E. Fenstad) 34 #8378b

A characterization of Δ_2-sets. *Trans. Amer. Math. Soc.* 117 (1965), 441-450. (J. R. Shoenfield) 30 #3007

On a family of models of Zermelo-Fraenkel set theory. *Z. Math. Logik Grundlagen Math.* 12 (1966), 191-204. (A. Lévy) 34 #7362

Some applications of Gentzen's second consistency proof. *Math. Ann.* 181 (1969), 325-344. (M. Yasugi) 40 #4099

On the metamathematics of rings and integral domains. *Trans. Amer. Math. Soc.* 138 (1969), 71-96. (D. H. Potts) 39 #1295

On cut elimination in intuitionistic systems of analysis. *Intuitionism and Proof Theory (Proc. Conf., Buffalo, N. Y., 1968), pp.* 271-285. *North-Holland, Amsterdam,* 1970. (B. van Rootselaar) 43 #7296

A model of intuitionistic analysis. *Comment. Math. Helv.* 45 (1970), 440-471. (A. S. Troelstra) 43 #7300

A model for barrecursion of higher types. *Compositio Math.* 23 (1971), 123-153. (G. E. Minc) 44 #6448

Scarpini, Francesco

Un'applicazione del principio dell'alternativa ai sistemi di equazioni differenziali lineari ordinarie nel compo complesso. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 913-933. (E. Baiada) 31 #2482

Su una maggiorazione a priori della soluzione di un problema al contorno per equazioni di tipo misto ellittico iperbolico. *Rend. Mat. e Appl.* (5) 22 (1963), 427-438. (J. R. Cannon) 32 #297

Sul calcolo degli autovalori relativi ad una equazione differenziale inerente ad un problema di conduzione del calore. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 53-60. (G. Sansone) 31 #6022a

Sul calcolo degli autovalori relativi ad una equazione differenziale inerente ad un problema di conduzione del calore. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 155-161. (G. Sansone) 31 #6022b

Su taluni problemi al contorno relativi ad una equazione alle derivate parziali del terzo ordine. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 5-33. (A. Pozzi) 33 #6172

Sul calcolo degli autovalori connessi ad un problema di genetica. *Rend. Mat. e Appl.* (5) 24 (1965), 80-107. (L. Collatz) 33 #6823

Sulla risolubilità di una particolare equazione integrale non lineare. *Rend. Mat. e Appl.* (5) 25 (1966), 285-307. (W. T. Reid) 36 #5638

Sce, Michele

Riconoscimento di caratteri. (English summary) *Calcolo* 1 (1964), 267-298. (F. W. Stallmann) 30 #2958

(with Lunelli, Lorenzo) Considerazioni arithmetiche e risultati sperimentali sui $\{K;n\}_q$-archi. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 3-52. (P. Dembowski) 30 #2389

Ščedrin, B. M.

(with Židkov, N. P.) A certain method of search for the minimum of a function of several variables. (Russian) *Computing Methods and Programming, X (Russian), pp.* 203-210. *Izdat. Moskov. Univ., Moscow,* 1968. (V. F. Dem'janov) 41 #2901

(with Vedeneev, E. P.; Židkov, N. P.) Differentiation of a tabular function by the method of interpolating conjugacy. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 433-437. (T. I. Seidman) 44 #1221

Ščeglov, A. I.

The algebra of partially recursive functions. (Russian) *Algebra i Logika* 6 (1967), *no.* 6, 33-48. (G. Asser) 37 #3919

The power of the set of maximal subalgebras of the algebra of partially recursive functions. (Russian) *Algebra i Logika* 7 (1968), *no.* 3, 119-121. (G. Asser) 41 #57

Ščeglov, M. P.

* (with Grebenikov, E. A.; Danilov, K. G.) Математический анализ. Часть II. (Russian) [Mathematical analysis. Part II] *Univ. Družby Narodov, Moscow,* 1964. 178 *pp.* (Editors) 39 #2551b

* (with Danilov, K. G.; Demin, V. G.) Математический анализ. Часть III. (Russian) [Mathematical analysis. Part III] *Univ. Družby Narodov, Moscow,* 1965. 143 *pp. (errata insert)* (Editors) 39 #2551c

On the theory of classes of bounded sequences. (Russian. English summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 90-94. (A. Alexiewicz) 35 #5801

Ščeglov, V. P.

Acceleration of gravity in investigations of the Tashkent astronomical observatory and the work there of Italian astronomers. In connection with the 400th anniversary of Galileo Galilei's birth. (Russian) *Istor.-Astronom. Issled. Vyp.* 10 (1969), 113-119. (E. Stipanić) 41 #1485

Ščennikov, B. A.

Aggregation method for solution of a system of linear equations. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 781-784. (H. Schwerdtfeger) 35 #3871

Ščennikov, V. V.

Calculation of the laminar boundary layer along a generator of a sublimating body of revolution. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 139-144. (Şt. I. Gheorghiţă) 30 #2790

A class of exact solutions of the Navier-Stokes equations for a compressible heat-conducting gas. *Prikl. Mat. Meh.* 33 (1969), 582-584 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 570-573. (M. N. L. Narasimhan) 41 #4893

(with Byrkin, A. P.) A certain numerical method for calculating a laminar boundary layer. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 124-131. (J. H. Giese) 44 #3582

Ščepakin, M. B.

(with Šor, N. Z.) A problem of stochastic programming. (Russian) *Theory of Optimal Solutions (Seminar, Kiev, 1967). No. 2 (Russian), pp. 38-44. Akad. Nauk Ukrain. SSR, Kiev,* 1967. (Editors) 39 #6623

Ščepin, E. V.

The spaces that are close to normal ones and their bicompact extensions. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 295-297. (J. N. Younglove) 41 #4492

Ščepin, G. G.

On the occurrence problem for a nilpotent product of finitely presented groups. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 294-297. (R. R. Struik) 30 #4825

Concerning the postulates of MacLane and Mal′cev for a class of regular operations on groups. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 219-226. (R. R. Struik) 32 #5720

On the occurrence problem in finitely defined groups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 443-448. (R. R. Struik) 37 #4152

Ščerbackiĭ, I. K.

Upper and lower isolated *M*-components. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1968, *no.* 1, 89-93. (V. Dlab) 37 #6323

The primality of isolated *P*-components. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 187-198 (1968). (E. Enochs) 39 #2802

Minimal reduced representations. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7) 220-231. (Chr. U. Jensen) 41 #5400

(with Rjabuhin, Ju. M.) The primary expansions in rings. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1969, *no.* 2, 8-19. (W. Vogel) 42 #1815

Intermediate primarities between primality and tertiarity. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1969, *no.* 2, 20-31. (W. G. Leavitt) 42 #145

Special primarities. I, II. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 4 (10), 136-161 (1969); *ibid.* 4 (1969), *vyp.* 1 (11), 132-160 (1969). (W. G. Leavitt) 41 #285

A characterization of coordinated primarities. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 3, 103-115. (L. A. Skornjakov) 41 #6735

Ščerbak, N. I. Kokovkin. See Kokovkin-Ščerbak, N. I.

Ščerbak, V. V.

Fields at a strip and at a slit in the problem of the diffraction of waves by strip inhomogeneities. (Russian) *Radiotehn. (Har′kov) Vyp.* 10 (1969), 54-61. (J. E. Rosenthal) 41 #4901

Ščerbakov, B. A.

On classes of Poisson stability of motion. Pseudorecurrent motions. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 1, 58-72. (M. Eisenberg) 35 #998

(with Špigel′, E. M.) On the structure of quasi-minimal sets. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 97-101. (M. Eisenberg) 35 #999

Constituent classes of Poisson-stable motions. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1397-1417. (C. S. Coleman) 30 #2201

A class of Poisson-Stable motions. (Russian) *Studies in Algebra and Math. Anal. (Russian), pp. 153-158. Izdat. "Karta Moldovenjaske", Kishinev,* 1965. (R. Conti) 34 #3565

Minimal motions and the structure of minimal sets. (Russian) *Studies in Algebra and Math. Anal. (Russian), pp. 97-108. Izdat. "Kartja Moldovenjaske", Kishinev,* 1965. (R. Conti) 37 #2207

Recurrent functions and recurrent motions. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1965, *no.* 7, 80-89. (J. Auslander) 33 #4405

Dynamical systems in the papers of the Kišinev seminar on the qualitative theory of differential equations. (Russian) *Differencial′nye Uravnenija* 1 (1965), 260-266. (J. Auslander) 34 #804

Stability of the zero-solution of a differential equation in a Banach space. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1966, *no.* 4, 111-115. (F. Brauer) 35 #1903

Recurrent solutions of differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1004-1007. (R. Conti) 34 #4642

Recurrent solutions of differential equations and the general theory of dynamical systems. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1450-1460. (J. K. Hale) 36 #6728

The homeomorphic transformation of compact dynamical systems into Bebutov's dynamical system. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 12 (67), 97-103. (N. G. Markley) 36 #5926

(with Rožko, V. F.) An example of a universal dynamical system. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1968, *no.* 1, 81-87. (O. Hájek) 40 #487

A certain class of Poisson stable solutions of differential equations. (Russian) *Differencial′nye Uravnenija* 4 (1968), 238-243. (F. Brauer) 37 #4361

Recurrent solutions of difference equations. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1402-1412. (A. Haimovici) 38 #3851

Poisson stable solutions of differential equations, and topological dynamics. (Russian) *Differencial′nye Uravnenija* 5 (1969), 2144-2155. (V. Drobot) 41 #7223

A method of dynamically limiting transformations in the problem of the existence of solutions of differential equations. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 3, 151-156. (R. F. Matlak) 42 #2106

The method of limit transformations in the problem of the existence of Poisson stable solutions of differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 796-799. (Š. Schwabik) 41 #3915

The principle of coordinated restorability, and Poisson stable solutions of differential equations. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2 (16), 168-177. (J. Jarník) 44 #1881

Ščerbakov, E. A.

Mappings that can be realized by the solutions of degenerate elliptic systems. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 848-851. (Š. A. Alimov) 43 #6582

Ščerbakov, G. I.

(with Popovkin, V. I.; Skačkov, V. A.) Optimal solutions of the antenna synthesis problem under constraints on the norm of the source distribution and on the error in realization of a given radiation pattern. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 129 (1970), 3-10. (I. Nedjalkov) 44 #3589

Ščerbakov, I. V.

The least upper bound of the coefficients of certain trigonometric polynomials. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp. 126-140. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (H. J. Landau) 44 #1980

The uniform convergence of trigonometric interpolation processes for continuous functions. (Russian) *Gidroaèromeh. i Teor. Uprugosti Vyp.* 7 (1968), 110-121. (J. Gregor) 44 #709

Ščerbakov, N. S.

An estimate of the reliability of discrete logical schemes with respect to their structure. (Russian) *Avtomat. i Vyčisl. Tehn.* 1968, *no.* 4, 58-64. 44 #1515

Ščerbakov, R. N.

(with Magazinnikov, L. I.) On centroaffine deformations of line complexes. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I (N.S.)* 9 (1963), 409-422. (Authors' summary) 32 #1622

On the method of frames for submanifolds. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 168 (1963), 5-11. (M. Decuyper) 30 #520

Generalized pseudospherical congruences. (Russian. Romanian and German summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 481-492. (A. Urban) 34 #6670

(with Bočillo, G. P.) On the projective-differential geometry of a complex of straight lines. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 181 (1965), *vyp.* 5, 24-33. (K. Svoboda) 34 #1946

(with Kovancov, M. I.; Geĭdel′man, R. M.) Differential line geometry. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 126-132. (Editors) 35 #906

Differential line geometry of three-dimensional space. (Russian) *Algebra, Topology, Geometry,* 1965 *(Russian), pp. 265-321. Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. (A. Urban) 35 #7233

On the moving reference frame method, and on frame fields for submanifolds. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 179-194. (A. Urban) 36 #3254

(with Ivlev, E. T.) Mark Borisovič Pergamenščikov. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 196-197. (Editors) 36 #21

A theorem of É. Cartan. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 196 (1968), 15-22. (A. Haimovici) 43 #4072

(with Vasenin, V. V.) Systems of quadratic exterior differential equations. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 491-496. (A. Haimovici) 44 #4352

Ščerbakov, V. T.

(with Ivanov, V. V.) Tables of functions encountered in the theory of resonance radiation transfer. I. *Astrofizika* 1 (1965), 22-30 *(Russian); translated as Astrophysics* 1 (1965), 10-16. (Authors' summary) 33 #7101

(with Ivanov, V. V.) Tables of functions encountered in the theory of resonance radiation transfer. II. *Astrofizika* 1 (1965), 31-37. *(Russian); translated as Astrophysics* 1 (1965), 17-22. (Authors' summary) 33 #7102

Ščerbakova, V. M.

On certain properties of the $(A,a_k^{(n)})$, $(K,b_k^{(n)},d_k^{(n)})$ and (k,ϕ,f)-methods of summation of numerical series. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 208-221. (E. Kogbetliantz) 33 #6208

Ščerbina, G. V.

A certain boundary value problem for quasi-linear ordinary differential equations. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* (4) 28 (1961), 97-102. (Ju. A. Klokov (RŽMat 1963 #2 B175)) 40 #1630

(with Myškis, A. D.) On the asymptotic behavior of solutions vanishing at infinity, for a certain class of second-order differential equations. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 3, 74-83. (C. Olech) 32 #4324

A boundary value problem on the semi-axis for a nonlinear second order differential equation. (Russian) *Vestnik Har'kov. Gos. Univ.* 1967, *no.* 26, 94-102. (C. Avramescu) 41 #561

A certain boundary value problem, encountered in applications, for a second order differential equation on the half axis. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 314-316. (P. B. Bailey) 36 #5431

Ščerbina, P. I.

On *p*-ary coding. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Tèhn. Navuk* 1964, *no.* 4, 9-15. (S. Kotz) 30 #1868

Ščerbina, V. A.

The regularization of products for certain classes of generalized functions. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* (4) 28 (1961), 116-127. (I. Čebotaru (RŽMat 1963 #6 B349)) 40 #3305

Regularization of products of generalized functions of the causal type. (Russian) *Problems Math. Phys. and Theory of Functions (Russian), pp.* 180-191. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. (A. Haimovici) 32 #1555

On the question of removal of divergences from a series for the scattering matrix of the quantum field theory. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 73-80. (K. Kumar) 34 #8758

A nonlocal model of quantum electrodynamics. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 97-108. (A. H. Klotz) 42 #5564

A subtraction procedure in a nonlocal model of quantum electrodynamics. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 109-116. (A. H. Klotz) 42 #5565

Ščerbina, V. P.

(with Martinenko, M. D.; Skripnik, Ī. V.) General elliptic problems in plane domains with apertures. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 320-322, 381. (A. M. Abasov) 44 #608

Ščetinin, N. P.

(with Beloglazov, I. N.) Oscillations in extremal-control relay systems with synchronous detection. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 4, 126-136. 31 #5735

Schaafsma, Willem

* Hypothesis testing problems with the alternative restricted by a number of inequalities. *P. Noordhoff, Ltd., Groningen,* 1966. x + 134 *pp. (1 foldout)* (H. D. Brunk) 35 #2411

(with Smid, L. J.) Most stringent somewhere most powerful tests against alternatives restricted by a number of linear inequalities. *Ann. Math. Statist.* 37 (1966), 1161-1172. (M. Skibinsky) 33 #8060

A comparison of the most stringent and the most stringent somewhere most powerful test for certain problems with restricted alternative. *Ann. Math. Statist.* 39 (1968), 531-546. (D. R. Traux) 37 #1015

Minimax risk and unbiasedness for multiple decision problems of type I. *Ann. Math. Statist.* 40 (1969), 1684-1720. (C. A. B. Smith) 40 #8174 }

Schaal, Hermann

Zur lokalen affinen Differentialgeometrie ebener und gewundener Flächenkurven. I. Ebene Flächenkurven. *Math. Z.* 90 (1965), 71-94. (F. Şemin) 32 #6338

Zur lokalen affinen Differentialgeometrie ebener und gewundener Flächenkurven. II. Gewundene Flächenkurven. *Math. Z.* 90 (1965), 95-116. (F. Şemin) 32 #6339

Über die Böschungslinien auf Paraboloiden und Zylindern. *Monatsh. Math.* 69 (1965), 69-76. (E. Morgantini) 31 #1600

Ein Beitrag zur Geometrie ähnlich-veränderlicher Felder. *Elem. Math.* 21 (1966), 97-109. (H. R. Müller) 34 #3405

(with Brauner, Heinrich) Die Flächen mit einem kinematischen Netz aus Schmieglinien. *Arch. Math. (Basel)* 18 (1967), 91-99. (F. Şemin) 35 #885

Über die durch Bewegung eines Streifens erzeugbaren Flächen. *Math. Z.* 96 (1967), 143-178. (K. Strubecker) 34 #6658

Eine Verallgemeinerung der Edlingerschen Flächen. *Math. Z.* 103 (1968), 69-77. (K. Strubecker) 37 #2100

(with Brauner, H.) Die Flächen mit zwei Scharen konstant geböschter Schmieglinien. *Arch. Math. (Basel)* 20 (1969), 81-87. (F. Şemin) 39 #4756

Die kinematischen Netze aus Schmieg- und Krümmungslinien. *Arch. Math. (Basel)* 21 (1970), 91-99. (F. Şemin) 42 #3686

Schaal, Werner

On the expression of a number as the sum of two squares in totally real algebraic number fields. *Proc. Amer. Math. Soc.* 16 (1965), 529-537. (J. H. H. Chalk) 31 #3405

Obere und untere Abschätzungen in algebraischen Zahlkörpern mit Hilfe des linearen Selbergschen Siebes. *Acta Arith.* 13 (1967/68), 267-313. (R. Ayoub) 36 #5099

On the large sieve method in algebraic number fields. *J. Number Theory* 2 (1970), 249-270. (J. H. Jordan) 42 #7626

Schaar, Günter

Über ein spezielles dreifaches schiefes Produkt. *Acta Sci. Math. (Szeged)* 25 (1964), 143-148. (V. S. Krishnan) 29 #5893

Bemerkungen zur "algebraischen" Exponentialfunktion im Mikusiński'schen Operatorenkörper. *Studia Math.* 30 (1968), 383-389. (J. Horváth) 39 #1965

Schaback, R.

(with Braess, D.) Eine Lösungsmethode für die lineare Tschebyscheff-Approximation bei nicht erfüllter Haarscher Bedingung. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 289-294. (H. L. Loeb) 44 #4875

(See also Werner, H. K. E., 44 #4887)

Schabat, B. W. See Šabat, B. V.

Schach, Siegfried

The asymptotic distribution of some non-linear functions of the two-sample rank vector. *Ann. Math. Statist.* 40 (1969), 1011-1020. (J. Hájek) 39 #4985

On a class of nonparametric two-sample tests for curcular distributions. *Ann. Math. Statist.* 40 (1969), 1791-1800. (H. L. Seal) 40 #6702

Nonparametric symmetry tests for circular distributions. *Biometrika* 56 (1969), 571-577. (Author's summary) 40 #8201

(with Horn, Susan) An extension of the Hewitt-Savage zero-one law. *Ann. Math. Statist.* 41 (1970), 2130-2131. (L. J. Savage) 42 #3821

The asymptotic distribuiton of a class of nonparametric test statistics. (German summary) *Metrika* 15 (1970), 48-58. (E. S. Keeping) 41 #1150

Schacher, Murray M.

Subfields of division rings. I. *J. Algebra* 9 (1968), 451-477. (E. Inaba) 37 #2809

Subfields of division rings. II. *J. Algebra* 10 (1968), 240-245. (E. Inaba) 38 #188

Cyclotomic splitting fields. *Proc. Amer. Math. Soc.* 25 (1970), 630-633. (J. Knopfmacher) 41 #1692

(with Fein, Burton) Solutions of pure equations in rational division algebras. I. *J. Algebra* 17 (1971), 83-93. (S. Elliger) 42 #6032

(with Fein, Burton) Embedding finite groups in rational division algebras. I. *J. Algebra* 17 (1971), 412-428. (J. Knopfmacher) 42 #7702

(with Fein, Burton) Embedding finite groups in rational division algebras. II. *J. Algebra* 19 (1971), 131-139. (J. Knopfmacher) 43 #6261

Schachter, Harry

(with Bergstein, Leonard) Resonant modes of optic cavities of small Fresnel numbers. *J. Opt. Soc. Amer.* 55 (1965), 1226-1233. (P. Uslenghi) 32 #2028

Schade, H.

Contribution to the nonlinear stability theory of inviscid shear layers. *Phys. Fluids* 7 (1964), 623-628. (Chia-Shun Yih) 29 #3078

Schaefer, D. J.

On tangential properties of Fréchet surfaces. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 171-182. (P. V. Reichelderfer) 34 #312

On multiplicity functions and Lebesgue area. *Rend. Sem. Mat. Univ. Padova* 42 (1969), 201-207. (E. Baiada) 43 #2191

Schaefer, Helmut H.

Spektraleigenschaften positiver linearer Operatoren. *Math. Z.* 82 (1963), 303-313. (A. Pietsch) 34 #4916

On the point spectrum of positive operators. *Proc. Amer. Math. Soc.* 15 (1964), 56-60. (G.-C. Rota) 29 #475

A brief introduction to the Lebesgue-Stieltjes integral. *Studies in Real and Complex Analysis, pp.* 90-123. *Math. Assoc. Amer. (Distributed by Prentice-Hall, Englewood Cliffs, N. J.),* 1965. (Editors) See 32 #1080

Über das Randspektrum positiver Operatoren. *Math. Ann.* 162 (1965/66), 289-293. (F. F. Bonsall) 33 #1738

* Topological vector spaces. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1966. ix + 294 *pp.* (A. Pietsch) 33 #1689

Eine Klasse irreduzibler positiver Operatoren. *Math. Ann.* 165 (1966), 26-30. (J. R. Dorroh) 34 #4917

Invariant ideals of positive operators in *C(X)*. I. *Illinois J. Math.* 11 (1967), 703-715. (R. A. Raimi) 36 #1996

Invariant ideals of positive operators in *C(X)*. II. *Illinois J. Math.* 12 (1968), 525-538. (R. A. Raimi) 38 #1539

(with Lotz, Heinrich P.) Über einen Satz von F. Niiro und I. Sawashima. *Math. Z.* 108 (1968), 33-36. (K. K. Oberai) 38 #6382

Sequence spaces with a given Köthe β-dual. *Math. Ann.* 189 (1970), 235-241. (D. J. H. Garling) 43 #867

Topologische Nilpotenz irreduzibler Operatoren. *Math. Z.* 117 (1970), 135-140. (E. Størmer) 43 #2542

Eine Abschätzung der nichttrivialen Eigenwerte stochastischer Matrizen. *Numer. Math.* 15 (1970), 219-223. (T. A. Porsching) 43 #1406

* Топологические векторные пространства. (Russian) [Topological vector spaces] Translated from the English by I. A. Berezanskiĭ. Edited and with an appendix by E. A. Gorin. *Izdat. "Mir", Moscow,* 1971. 359 *pp.* (Editors) 43 #2461

Weak convergence of measures. *Math. Ann.* 193 (1971), 57-64. (J. C. Oxtoby) 44 #5759

On the characteristic roots of real matrices. *Proc. Amer. Math. Soc.* 28 (1971), 91-92. (Marvin Marcus) 42 #6009

Schaefer, Henry F., III

(with Harris, Frank E.) Construction and use of atomic *L-S* eigenfunctions. *J. Computational Phys.* 3 (1968/69), 217-225. (Authors' summary) 40 #8403

Schaefer, Paul

The density of certain classes of rationals. *Amer. Math. Monthly* 72 (1965), 894-895. (Editors) 32 #1168

Core theorems for coregular matrices. *Illinois J. Math.* 9 (1965), 207-211. (B. E. Rhoades) 30 #5095

Generalized Fekete means. *Trans. Amer. Math. Soc.* 120 (1965), 24-36. (D. Gaier) 31 #6077

Limit points of bounded sequences. *Amer. Math. Monthly* 75 (1968), 51. (F. P. Cass) 37 #4455

Total regularity of matrix transformations. *Bull. Soc. Math. Belg.* 20 (1968), 413-420. (I. J. Maddox) 39 #7323

Matrix transformations of almost convergent sequences. *Math. Z.* 112 (1969), 321-325. (B. E. Rhoades) 40 #7674

Almost convergent and almost summable sequences. *Proc. Amer. Math. Soc.* 20 (1969), 51-54. (B. E. Rhoades) 38 #3649

Matrix transformations of almost convergent sequences. II. *Math. Z.* 120 (1971), 363-364. (B. E. Rhoades) 44 #1969

Schaefer, Philip W.

On the Cauchy problem for an elliptic system. *Arch. Rational Mech. Anal.* 20 (1965), 391-412. (E. Magenes) 33 #403

Pointwise bounds in the Cauchy problem for an elliptic system. *SIAM J. Appl. Math.* 15 (1967), 665-677. (H. F. Weinberger) 35 #5753

Schaeffer, Anthony J.

Boundedness of solutions to linear differential equations. *Bull. Amer. Math. Soc.* 74 (1968), 508-511. (A. G. Kartsatos) 36 #5441

(with Hurt, James J.) Critical linear difference equation: A study in pathology. *J. Math. Anal. Appl.* 33 (1971), 408-424. (A. Halanay) 43 #5191

Schaeffer, David G.

The Dirichlet problem with generalized functions as data. *Ann. Mat. Pura Appl.* (4) 83 (1969), 153-174. (C. B. Morrey, Jr.) 41 #7271

A note on the representation of a solution of a elliptic differential equation near an isolated singularity. *Proc. Amer. Math. Soc.* 23 (1969), 450-454. (Z. C. Motteler) 39 #7262

Wiener-Hopf factorization of the symbol of an elliptic difference operator. *J. Functional Analysis* 5 (1970), 383-394. (D. P. Squier) 41 #7491

An extnesion of Hartogs' theorem for domains whose boundary is not smooth. *Proc. Amer. Math. Soc.* 25 (1970), 714-715. (Author's summary) 41 #5650

Schaefgen, H. W.

(with McBride, L. E., Jr.; Steiglitz, K.) Time-domain approximation by iterative methods. *IEEE Trans. Circuit Theory* CT-13 (1966), 381-387. (Authors' summary) 39 #6483

Schaer, Jonathan

(with Meir, A.) On a geometric extremum problem. *Canad. Math. Bull.* 8 (1965), 21-27. (H. S. M. Coxeter) 30 #5215

The densest packing of 9 circles in a square. *Canad. Math. Bull.* 8 (1965), 273-277. (H. S. M. Coxeter) 31 #6164

On the densest packing of spheres in a cube. *Canad. Math. Bull.* 9 (1966), 265-270. (H. S. M. Coxeter) 34 #683

The densest packing of five spheres in a cube. *Canad. Math. Bull.* 9 (1966), 271-274. (H. S. M. Coxeter) 34 #684

The densest packing of six spheres in a cube. *Canad. Math. Bull.* 9 (1966), 275-280. (H. S. M. Coxeter) 34 #1929

(with Guy, Richard K.; Jenkyns, Tom) The toroidal crossing number of the complete graph. *J. Combinatorial Theory* 4 (1968), 376-390. (T. A. Brown) 36 #3682

Schaerf, Mirella

(with De Vito, Luciano; Fichera, Gaetano; Fusciardi, Alfonso) Sul calcolo degli autovalori della piastra quadrata incastrata lungo il bordo. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 725-733. (Authors' summary) 34 #3801

Schafarewitsch, I. R. See Šafarevič, Igor R.

Schafer, James A.

The dual of the flabby is the bar. *Proc. Amer. Math. Soc.* 16 (1965), 594-598. (G. S. Rinehart) 32 #2458

A relation between group actions and index. *Proc. Conf. on Transformation Groups. (New Orleans, La.,* 1967*), pp.* 349-350. *Springer, New York,* 1968. (H.-T. Ku) 41 #4578

Abelian groups with a vanishing homology group. *Canad. J. Math.* 21 (1969), 406-409. (J. Rotman) 39 #1527

(with Burroughs, John E.) Subgroups of conjugate classes in extensions. *Canad. J. Math.* 22 (1970), 773-783. (I. D. Macdonald) 43 #355

Topological Pontrjagin classes. *Comment. Math. Helv.* 45 (1970), 315-332. (T. tom Dieck) 43 #1199

Schafer, Richard D.

* An introduction to nonassociative algebras. Pure and Applied Mathematics, Vol. 22. *Academic Press, New York-London,* 1966. x + 166 *pp.* (E. J. Taft) 35 #1643

On the simplicity of the Lie algebras E_7 and E_8. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 64-69. (E. J. Taft) 34 #2644

(with McCrimmon, K.) On a class of noncommutative Jordan algebras. *Proc. Nat. Acad. Sci. U.S.A.* 56 (1966), 1-4. (L. J. Paige) 34 #5888

On generalized standard algebras. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 73-74. (M. L. Tomber) 39 #4238

Generalized standard algebras. *J. Algebra* 12 (1969), 386-417. (M. L. Tomber) 44 #268

Standard algebras. *Pacific J. Math.* 29 (1969), 203-223. (K. Meyberg) 39 #5647

Forms permitting composition. *Advances in Math.* 4, 127-148 (1970), (E. J. Taft) 41 #286

Schafer, Ronald W.

(with Rabiner, Lawrence R.; Rader, Charles M.) The chirp z-transform algorithm and its application. *Bell System Tech. J.* 48 (1969), 1249-1292. (Y. L. Luke) 39 #5045

Schäfer, Wolfgang

Behandlung von Freistrahlproblemen mittels der Hodographenmethode bei quadratischer Approximation der Adiabate. I. Das Ausströmen aus einem gradlinig begrenzten Gefäss. *Wiss. Z. Techn. Hochsch. Chem. Leuna-Mersebrug* 5 (1963), 47-52. (J. H. Giese) 29 #6752

Behandlung von Freistrahlproblemen mittels der Hodographenmethode bei quadratischer Approximation der Adiabate. II. Der. Stoss eines Strahls auf eine Platte. *Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg* 5 (1963), 147-151. (J. H. Giese) 29 #6753

Schäffer, Juan Jorge

Sur une classe de treillis vectoriels topologiques. *Bol. Fac. Ingen. Agrimens. Montevideo* 7 (1961), 375-386. (B. Z. Vulih (RŽMat 1962 11 B358)) 31 #590

A result in the theory of function spaces with translations. (Spanish summary) *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo. Publ. Inst. Mat. Estadíst.* 3, 147-151 (1962). (Editors) 32 #4534

Projections. (Spanish summary) *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadíst.* 3, 153-170 (1962). (Editors) 32 #4133

Notes on Galilean systems. I. (Spanish. English summary) *Bol. Fac. Ingen. Agrimens. Montevideo* 8 (1964), 383-393. (M. Brelot) 32 #3317

On Floquet's theorem in Banach spaces. (Spanish summary) *Bol. Fac. Ingen. Agrimens. Montevideo* 8 (1964), 395-403. (Edwin Hewitt) 32 #4352

Notes on Galilean systems. I. (Spanish. English summary) *Fac. Ingen. Agrimens. Montevideo Publ. Didáct. Inst. Mat. Estadíst.* 1 (1964), 95-105. (Editors) 34 #2232

On Floquet's theorem in Banach spaces. (Spanish summary) *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadíst.* 4, 13-21 (1964). (Editors) 32 #4351

More about invertible operators without roots. *Proc. Amer. Math. Soc.* 16 (1965), 213-219. (R. E. Edwards) 30 #3374

Another characterization of Hilbert spaces. *Studia Math.* 25 (1965), 271-276. (A. C. Zaanen) 31 #3834

* (with Massera, José Luis) Linear differential equations and function spaces. Pure and Applied Mathematics, Vol. 21. *Academic Press, New York-London,* 1966. xx + 404 *pp.* (C. Corduneanu) 35 #3197

Sets with holes on the real line: A construction and an application. *Israel J. Math.* 4 (1966), 225-229. (W. F. Pfeffer) 34 #8157

(with Coffman, Charles V.) Dichotomies for linear difference equations. *Math. Ann.* 172 (1967), 139-166. (G. R. Sell) 35 #5791

Inner diameter, perimeter, and girth of spheres. *Math. Ann.* 173 (1967), 59-79; *addendum, ibid.* 173 (1967), 79-82. (A. C. Zaanen) 36 #1959

Symmetric curves, hexagons, and the girth of spheres in dimension 3. *Israel J. Math.* 6 (1968), 202-205. (A. C. Zaanen) 38 #1610

A note on systems of linear difference equations. *Math. Ann.* 177 (1968), 23-30. (G. R. Sell) 38 #2463

(with Sundaresan, Kondagunta) Reflexivity and the girth of spheres. *Math. Ann.* 184 (1969/70), 163-168. (R. C. James) 41 #4209

Minimum girth of spheres. *Math. Ann.* 184 (1969/70), 169-171. (R. C. James) 41 #4210; erratum, 42, p. 1824.

* (with Massera, José Luis) *Линейные дифференциальные уравнения и функциональные пространства.* (Russian) [Linear differential equations and function spaces] Translated from the English by A. M. Zverkin and G. A. Kamenskiĭ. *Izdat. "Mir", Moscow,* 1970. 456 *pp.* (Editors) 42 #3331

Linear difference equations: Closedness of covariant sequences. *Math. Ann.* 187 (1970), 69-76. (C. V. Coffman) 43 #2569

Spheres with maximum inner diameter. *Math. Ann.* 190 (1970/71), 242-247. (J. P. Williams) 42 #8254

Norms and determinants of linear mappings. *Math. Z.* 118 (1970), 331-339. (E. Deutsch) 43 #7445

More distant than the antipodes. *Bull. Amer. Math. Soc.* 77 (1971), 606-609. (J. P. Williams) 44 #781

(with Coffman, C. V.) Linear differential equations with delays: Admissibility and conditional exponential stability. *J. Differential Equations* 9 (1971), 521-535. (S. Leela) 43 #655

Schäfke, Friedrich Wilhelm

Reihenentwicklungen analytischer Funktionen nach Biorthogonalsystemen spezieller Funktionen. III. *Math. Z.* 80 (1962/63), 400-442. (J. Meixner) 31 #3768

(with Schneider, A.) *S*-hermitesche Rand-Eigenwertprobleme. I. *Math. Ann.* 162 (1965/66), 9-26. (L. Collatz) 32 #5968

Lösungstypen von Differenzengleichungen und Summengleichungen in normierten abelschen Gruppen. *Math. Z.* 88 (1965), 61-104. (I. M. Sheffer) 31 #522

(with Schneider, A.) *S*-hermitesche Rand-Eigenwertprobleme. II. *Math. Ann.* 165 (1966), 236-260. (L. Collatz) 33 #7664

(with Schmidt, Dieter) Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. III. *Numer. Math.* 8 (1966), 68-71. (S. C. van Veen) 34 #2157

* (with Doetsch, G.; Tietz, Horst) Mathematische Hilfsmittel des Ingenieurs. Teil I. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 139. *Springer-Verlag, Berlin-New York,* 1967. xv + 496 *pp.* (E. Kreyszig) 36 #4851

* Differenzierbare Abbildungen. Teil der Vorlesung "Einführung in die Analysis", gehalten 1965/66 in Köln. Ausgearbeitet von D. Krekel und D. Schmidt. *Universität Köln, Cologne,* 1967. iii + 46 *pp.* (P. Ver Eecke) 41 #5968

Minimallösungen von Differenzengleichungen in Gruppen: Eine verallgemeinerte Kettenbruchmethode. *Math. Z.* 98 (1967), 52-59. (T. Fort) 35 #1989

(with Schneider, A.) *S*-hermitesche Rand-Eigenwertprobleme. III. *Math. Ann.* 177 (1968), 67-94. (L. Collatz) 37 #4315

Zum Zeilensummenkriterium. *Numer. Math.* 12 (1968), 448-453. (J. Vandergraft) 40 #1021

Zu den Integraldefinitionen von Gramsch und Hackenbroch. *Arch. Math. (Basel)* 21 (1970), 284-290. (J. Schmets) 42 #4694

Integrationstheorie. I. *J. Reine Angew. Math.* 244 (1970), 154-176. (W. Hackenbroch) 42 #6183

Zum Anwendungsbereich einiger Iterationsverfahren. *Numer. Math.* 15 (1970), 109-121. (B. T. Poljak) 42 #4008

* Quasimetrische Räume und quasinormierte Gruppen. BMBW-GMD-39. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1971. i + 16 *pp.* (H. J. Biesterfeldt, Jr.) 43 #3995

Integrationstheorie. II. *J. Reine Angew. Math.* 248 (1971), 147-171. (W. Hackenbroch) 44 #2905

Schafmeister, Otto

* Differenzierbare Räume. Forschungsberichte des Landes Nordrhein-Westfalen, No. 2140. *Westdeutscher Verlag, Cologne,* 1970. 38 *pp.* (S. Hitotumatu) 43 #8085

Schaginjan, A. L. See Šaginjan, A. L.

Schainker, Robert B.

(with Chidambara, M. R.) Lower order aggregated model and suboptimal control. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp.* 842-849. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8075

Schäl, Manfred

Markov renewal processes with auxiliary paths. *Ann. Math. Statist.* 41 (1970), 1604-1623. (S. Orey) 42 #8561

Rates of convergence in Markov renewal processes with auxiliary paths. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 29-38. (E. Çinlar) 44 #2283

The analysis of queues with state-dependent parameters by Markov renewal processes. *Advances in Appl. Probability* 3 (1971), 155-175. (J. J. Hunter) 44 #4827

Schalkwijk, J. Pieter M.

(with Kailath, T.) A coding scheme for additive noise channels with feedback. I. No bandwidth constraint. *IEEE Trans. Information Theory* IT-12 (1966), 172-182. (Authors' summary) 40 #3991

A coding scheme for additive noise channels with feedback. II. Band-limited signals. *IEEE Trans. Information Theory* IT-12 (1966), 183-189. (Author's summary) 40 #3992

Center-of-gravity information feedback. *IEEE Trans. Information Theory* IT-14 (1968), 324-331. (Author's summary) 40 #399

Schanin, N. A. See Šanin, N. A.

Schanuel, S.

On heights in number fields. *Bull. Amer. Math. Soc.* 70 (1964), 262-263. (R. Ayoub) 29 #91

Schaper, Knut

* Über unstetige Rieszsche Mittel. Inaugural-Dissertation zur Erlangung der Doktorwürde der Naturwissenschaftlichen Fakultät der Philipps-Universität Marburg/Lahn. *Philipps-Universität Marburg/Lahn, Marburg/Lahn,* 1966. iii + 26 *pp.* (K. Endl) 36 #68

Schapery, R. A.

Application of thermodynamics to thermomechanical, fracture, and birefringent phenomena in viscoelastic media. *J. Appl. Phys.* 35 (1964), 1451-1465. (Sakti K. Chakraborty) 31 #5401

Thermomechanical behavior of viscoelastic media with variabl properties subjected to cyclic loading. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 611-619. (Sakti K. Chakraborty) 32 #8609

A method of viscoelastic stress analysis using elastic solutions. *J. Franklin Inst.* 279 (1965), 268-289. (E. H. Lee) 33 #2050

Schapira, Pierre

Espaces d'équi-interpolation. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A32-A34. (Colin Clark) 34 #603

Une équation aux dérivées partielles sans solutions dans l'espace des hyperfonctions. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A665-A667. (C. Harvey) 36 #4112

Sur les ultra-distributions. *Ann. Sci. École Norm. Sup.* (4) 1 (1968), 395-415. (S. Łojasiewicz) 39 #771

Problème de Dirichlet et solutions hyperfonctions des équations elliptiques. *Boll. Un. Mat. Ital.* (4) 2 (1969), 367-372. (R. S. Freeman) 42 #2323 (E)

Erratum all'articolo: "Problème de Dirichlet et solutions hyperfonctions des équations elliptiques". *Boll. Un. Mat. Ital.* (4) 2 (1969), 711. (R. S. Freeman) 42 #2324

Solutions hyperfonctions des équations aux dérivées partielle du premier ordre. *Bull. Soc. Math. France* 97 (1969), 243-255. (E. Baiada) 41 #2188

* Théorie des hyperfonctions. Notas e Comunicações de Matemática, No. 24. *Instituto de Matemática, Universidade Federal de Pernambuco, Recife,* 1970. i + 27 *pp.* (S. Łojasiewicz) 42 #5044

Schapiro, J. L. See Šapiro, Ja. L.

Schapiro, Z. See Šapiro, Z. Ja.

Schappert, G. T.

The infinite number of particles limit of a solvable model. *Ann. Physics* 30 (1964), 119-126. (T. Sasakawa) 32 #7090

Scharf, Günter

* Fastperiodische Potentiale. Inauguraldissertation zur Erlangung der Würde eines Doktors der Philosophie vorgelegt der Philosophischen Fakultät II der Universität Zürich. *Buchdruckerei Birkhäuser AG, Basel,* 1965. 34 *pp.* (G. H. Meisters) 34 #1603

Das Blochsche Theorem für unendliche Systeme. (English summary) *Helv. Phys. Acta* 39 (1966), 556-560. (D. Babbitt) 34 #4955

Functional-analytic discussion of the linearized Boltzmann equation. *Helv. Phys. Acta* 40 (1967), 929-945. (J. A. McLennan) 36 #3553

Normal solutions of the linearized Boltzmann equation. *Helv. Phys. Acta* 42 (1969), 5-22. (J. P. Guiraud) 39 #7871

Stokes' problems in kinetic theory. *Phys. Fluids* 13 (1970), 848-857. (A. Berroir) 42 #5576

Scharf, Joachim-Hermann

Innere Regressionsrechnung mit nichtlinearen Differentialgleichungen. (English summary) *Biometrische Z.* 12 (1970), 228-241 (Author's summary) 44 #1156

Scharf, Volkmar

* Ein Verfahren zur Lösung des Cauchy-Problems für lineare Systeme von partiellen Differentialgleichungen. Forschungsberichte des Landes Nordrhein-Westfalen, No. 1904. *Westdeutscher Verlag, Köln,* 1968. 41 *pp.* (W. Sibagaki) 40 #3058

* Eine Reihenentwicklung für die Lösung des Anfangswertproblems bei linearen Systemen gewöhnlicher Differentialgleichungen. BMwF-GMD-6(c). *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1968. ii + *pp.* 15-20. (M. Q. Jacobs) 41 #552

Über eine Verallgemeinerung des Anfangswertproblems bei linearen Systemen von gewöhnlichen Differentialgleichungen. *J. Reine Angew. Math.* 239/240 (1969), 287-299. (H. Hochstadt) 40 #7521

Scharfstein, H.

Trilinear commutation relations between fields. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 740-761. (Author's summary) 29 #4472

Algebraic aspects of trilinear commutation relations. *J. Mathematical Phys.* 7 (1966), 1707-1719. (C. R. Hagen) 34 #3922

Scharlau, Winfried

Quadratische Formen und Galois-Cohomologie. *Invent. Math.* 4 (1967), 238-264. (D. J. Lewis) 37 #1442

* Quadratic forms. Queen's Papers in Pure and Applied Mathematics, No. 22. *Queen's University, Kingston, Ont.*, 1969. iii + 162 *pp.* (H. Gross) 42 #4574

Über die Brauer-Gruppe eines Hensel-Körpers. *Abh. Math. Sem. Univ. Hamburg* 33 (1969), 243-249. (E. Inaba) 41 #185

Zur Pfisterschen Theorie der quadratischen Formen. *Invent. Math.* 6 (1969), 327-328. (H. Gross) 39 #2793

Über die Brauer-Gruppe eines algebraischen Funktionenkörpers in einer Variablen. *J. Reine Angew. Math.* 239/240 (1969), 1-6. (A. P. Ogg) 40 #4270

(with Geyer, W.-D.; Harder, G.; Knebusch, M.) Ein Residuensatz für symmetrische Bilinearformen. *Invent. Math.* 11 (1970), 319-328. (Carl Riehm) 44 #239

Klassifikation hermitescher Formen über lokalen Körpern. *Math. Ann.* 186 (1970), 201-208. (C. F. Moppert) 41 #8473

Scharle, Thomas W.

Axiomatization of propositional calculus with Sheffer functors. *Notre Dame J. Formal Logic* 6 (1965), 209-217. (R. L. Goodstein) 33 #2525

(with Canty, John Thomas) Note on the singularies of *S*5. *Notre Dame J. Formal Logic* 7 (1966), 108. 34 #5659

Single axiom schemata for *D* and *S*. *Notre Dame J. Formal Logic* 7 (1966), 344-348. 38 #1999

(with Lambert, Karel) A translation theorem for two systems of free logic. *Logique et Analyse (N.S.)* 10 (1967), 328-341. (S. McCall) 37 #1229

Scharnitzky, V.

(with Szenthe, J.) Über Fluchtpunkte einer 2-Zelle. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 19-23. (R. W. Bagley) 30 #3455

Schassberger, Rolf

* Ein Wartesystem mit zwei parallelen Schlangen. Von der Technischen Hochschule Stuttgart zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart,* 1967. 38 *pp.* (T. Kawata) 38 #5312

Ein Wartesystem mit zwei parallelen Warteschlangen. (English summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 110-124. (T. Kawata) 38 #5311

A service system with two parallel queues. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 24-29. (T. Kawata) 39 #6419

On the waiting time in the queueing system GI/G/1. *Ann. Math. Statist.* 41 (1970), 182-187. (J. F. C. Kingman) 41 #4695

Schatte, Ingrid

Über Mittelwertformeln. *Mathematica (Cluj)* 7 (30) (1965), 375-382. (Z. Daróczy) 35 #3015

Schatte, Peter

Zur Existenz von Stieltjes-Integralen im Komplexen und Reellen. *Ann. Polon. Math.* 17 (1965), 55-77. (H. S. Wall) 32 #190

Über beschränkte analytische Funktionen. *Math. Nachr.* 34 (1967), 257-275. (C. Tanaka) 36 #5355

Funktionentheoretische Untersuchungen im Mikusińskischen Operatorenkörper. *Math. Nachr.* 35 (1967), 19-56. (C. Tanaka) 38 #1521

Ungleichungen zwischen den Alternantenpunkten bei Tschebyscheffscher Polynomapproximation. *Abh. Math. Sem. Univ. Hamburg* 32 (1968), 1-6. (E. W. Cheney) 39 #1863

Über die Abschätzung des Betrages einer analytischen beschränkten Funktion nach unten. *Math. Nachr.* 36 (1968), 143-151. (W. Schneider) 39 #453

Schatten, Robert

The greatest crossnorm. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 185-193. (J. Schröder) 31 #3875

* Norm ideals of completely continuous operators. Second printing. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 27. *Springer-Verlag, Berlin-New York,* 1970. vii + 81 *pp.* (Editors) 41 #2449

Schattke, W.

A nonlocal theory for the superconductor in a magnetic field. *Phys. Lett.* 20 (1966), 245-247. (N. R. Werthamer) 32 #7100

Schattschneider, Doris J.

On restricted roots of semi-simple algebraic groups. *J. Math. Soc. Japan* 21 (1969), 94-115. (D. J. Winter) 38 #4485

Schatz, Alfred H.

On the differentiability of generalized solutions of first order elliptic equations with discontinuous coefficients. *Trans. Amer. Math. Soc.* 125 (1966), 13-31. (C. B. Morrey, Jr.) 34 #1687

On the local behavior of homeomorphic solutions of Beltrami's equation. *Duke Math. J.* 35 (1968), 289-306. (S. B. Agard) 36 #6614

Free boundary problems of Stephan type with prescribed flux. *J. Math. Anal. Appl.* 28 (1969), 569-580. (V. Melamed (RŽMat 1970 #5 B456)) 42 #2187

(with Bramble, J. H.) On the numerical solution of elliptic boundary value problems by least squares approximation of the data. *Numerical Solution of Partial Differential Equations, II (SYNSPADE* 1970*) (Proc. Sympos., Univ. of Maryland, College Park, Md.*, 1970*), pp.* 107-131. *Academic Press, New York,* 1971. 42 #8713

(with Bramble, James H.) Rayleigh-Ritz-Galerkin methods for Dirichlet's problem using subspaces without boundary conditions. *Comm. Pure Appl. Math.* 23 (1970), 653-675. (P. G. Ciarlet) 42 #2690

(with Earle, C. J.) Teichmüller theory for surfaces with boundary. *J. Differential Geometry* 4 (1970), 169-185. (J. N. Mather) 43 #2737b

Schatz, E.

(with Levin, M. I.) A generalization of the formula for integration by parts to the case of double integrals. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 460-464. (J. Král) 43 #7839

Certain polynomials of least deviation in the metric L_2. (Russian. English summary) *Tallin. Polütehn. Inst. Toimetised Seer. A No.* 293 (1970), 23-26. (B. Bojanov) 43 #7835

Schatz, J. A.

(with Blum, J. R.; Seiden, E.) On 2-level orthogonal arrays of odd index. *J. Combinatorial Theory* 9 (1970), 239-243. (R. G. Stanton) 41 #8258

Schatz, Norbert

Die Gruppe der projektiven Transformationen einer Graßmannschen Mannigfaltigkeit in sich. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 178 (1970), 39-44. (Y.-C. Wong) 41 #2550

Schatzman, Evry

(See Astronomie, 29 #5623)

Schatzoff, Martin

(with Dempster, A. P.) Expected significance level as a sensitivity index for test statistics. *J. Amer. Statist. Assoc.* 60 (1965), 420-436. (Authors' summary) 35 #1130

Exact distributions of Wilks's likelihood ratio criterion. *Biometrika* 53 (1966), 347-358. (M. Skibinsky) 35 #3812

Sensitivity comparisons among tests of the general linear hypothesis. *J. Amer. Statist. Assoc.* 61 (1966), 415-435. (Author's summary) 34 #6940

Schäuble, Manfred

(with Sachs, Horst) Konstruktion von Graphen mit gewissen Färbungseigenschaften. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 131-136. *Teubner, Leipzig,* 1968. (W. Imrich) 40 #1304

Bemerkungen zu einem Kantenfärbungsproblem. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 137-142. *Teubner, Leipzig,* 1968. (W. Imrich) 40 #1305

Zu einem Kantenfärbungsproblem. Bemerkungen zu einer Note von R. L. Graham. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 2, 55-58. (K. Wagner) 43 #103

Bemerkungen zur Konstruktion dreikreisfreier *k*-chromatischer Graphen. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 2, 59-63. (K. Wagner) 43 #3166

(See also Sachs, Horst, 43 #4712)

Schaufelberger, Walter

(with Wehrli, Christoph) Stabilität modelladaptiver Systeme nach der direkten Methode. (English summary) *Z. Angew. Math. Phys.* 21 (1970), 399-411. (E. O. Roxin) 42 #2833

Schaufele, C. B.

A note on link groups. *Bull. Amer. Math. Soc.* 72 (1966), 107-110. (W. R. Alford) 32 #1696

The commutator group of a doubled knot. *Duke Math. J.* 34 (1967), 677-681. (L. Neuwirth) 35 #7328

Kernels of free abelian representations of a link group. *Proc. Amer. Math. Soc.* 18 (1967), 535-539. (L. Neuwirth) 35 #2274

(with Alford, W. R.) Complements of minimal spanning surfaces of knots are not unique. II. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga.,* 1969*), pp.* 87-96. *Markham, Chicago, Ill.,* 1970. (L. Neuwirth) 44 #5947

Schaufele, Ronald A.

(with Pyke, Ronald) Limit theorems for Markov renewal processes. *Ann. Math. Statist.* 35 (1964), 1746-1764. (H. Kesten) 29 #5291

(with Pyke, Ronald) The existence and uniqueness of stationary measures for Markov renewal processes. *Ann. Math. Statist.* 37 (1966), 1439-1462. (J. L. Doob) 34 #3658

Potentials associated with recurrent Markov renewal processes. *J. Math. Anal. Appl.* 13 (1966), 303-336. (G. E. Denzel) 35 #7419

A potential theoretic proof of a theorem of Derman and Veinott. *Ann. Math. Statist.* 38 (1967), 585-587. (T. S. Ferguson) 34 #8581

Schay, Geza, Jr.

Approximation of sums of independent random variables by normal random variables. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4 (1965), 209-216. (C. G. Esseen) 34 #5144

(with Dauer, Francis W.) A probabilistic model of a self-organizing file system. *SIAM J. Appl. Math.* 15 (1967), 874-888. (D. L. Inglehart) 36 #6028

An algebra of conditional events. *J. Math. Anal. Appl.* 24 (1968), 334-344. (H. Geiringer) 37 #5901

Schechter, Ervin

On the numerical integration of the equation $u_{xy} = F(x,y,u,p,q)$. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* 12 (1961), 377-392. (G. P. Szegö) 32 #3293

Čaplygin type methods for hyperbolic equations. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* 13 (1962), 365-380. (Author's summary) 30 #5066

Chaplighin type methods for hyperbolic equations. *Mathematica (Cluj)* 4(27) (1962), 383-396. (A. Friedman) 29 #5003

Error estimation by means of differential inequalities. *Mathematica (Cluj)* 6(29) (1964), 117-128. (G. D. Byrne) 32 #8533

Some remarks concerning the Chaplyghin method for systems of ordinary differential equations. *Mathematica (Cluj)* 7(30) (1965), 139-143. (James W. Daniel) 33 #6840

Observations relative to the method of Čaplygin for systems of equations. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 2, 45-49. (Author's summary) 33 #879

Convergence considerations on a second-order method of approximate solution of parabolic equations. *Mathematica (Cluj)* 8(31) (1966), 357-364. (A. O. Garder, Jr.) 35 #1960

Convergence of the method of Čaplygin for equations of parabolic type. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 1, 53-61. (M. L. Juncosa) 34 #3809

Stability and convergence critieria for non-linear parabolic difference equations. Colloquium on the Theory of Approximation of Functions (Cluj, 1967). *Mathematica (Cluj)* 10(33) (1968), 127-149. (M. Kuczma) 39 #1136

On a connection between the Chaplygin and Newton methods. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 13 (1968), *no.* 1, 59-66. (W. G. Strang) 37 #3789

(with Młak, W.) On the Chaplighin method for partial differential equations of the first order. *Ann. Polon. Math.* 22 (1969/70), 1-18. (A. Elcrat) 39 #7273

Error bounds in the numerical integration of differential equations. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Mech.* 15 (1970), *no.* 1, 47-53. (T. E. Hull) 42 #1343

Schechter, J.

(with Ueda, Y.; Okubo, S.) Permutation symmetry and a derivation of unitary symmetry. *Ann. Physics* 32 (1965), 424-443. (N. Mukunda) 33 #2283

(with Pandit, L. K.) The strangeness changing axial vector coupling constant. *Phys. Lett.* 19 (1965), 56-59. (V. de Alfaro) 33 #3656

(with Ueda, Y.) Weak currents in broken $U(3)xU(3)$. *Phys. Rev.* (2) 144 (1966), 1338-1342. (R. Gatto) 33 #3671

Schechter, Martin

Solution of the Dirichlet problem for equations not necessarily strongly elliptic. *Bull. Amer. Math. Soc.* 64 (1958), 371-372. (L. Gårding (Zbl 87, 302)) 30 #1303a

General boundary value problems for elliptic partial differential equations. *Bull. Amer. Math. Soc.* 65 (1959), 70-72. (L. Gårding (Zbl 87, 302)) 30 #1303b

Observations concerning a paper of Peetre. *Comm. Pure Appl. Math.* 14 (1961), 733-736. (C. Racine (Zbl 104, 74)) 30 #1302

On L^p estimates and regularity. I. *Amer. J. Math.* 85 (1963), 1-13. (R. Beals) 32 #6051

On the theory of differential boundary problems. *Illinois J. Math.* 7 (1963), 232-245. (R. S. Freeman) 33 #6094

On L^p estimates and regularity. II. *Math. Scand.* 13 (1963), 47-69. (R. Beals) 32 #6052

On the dominance of partial differential operators. *Trans. Amer. Math. Soc.* 107 (1963), 237-260. (R. Carroll) 32 #6049

* (with Bers, Lipman; John, Fritz) Partial differential equations. With special lectures by Lars Garding and A. N. Milgram. Proceedings of the Summer Seminar, Boulder, Colorado, 1957. Lectures in Applied Mathematics, Vol. III. *Interscience Publishers [John Wiley & Sons, Inc.], New York-London-Sydney,* 1964. xiii + 343 *pp.* (Editors) 29 #346

(with Bers, Lipman) Elliptic equations. *Partial Differential Equations (Proc. Summer Seminar, Boulder, Col.,* 1957*),* *pp.* 131-299. *Interscience, New York,* 1964. (R. Carroll) 29 #2513

On the dominance of partial differential operators. II. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 255-282. (R. Carroll) 32 #6050

Systems of partial differential equations in a half-space. *Comm. Pure Appl. Math.* 17 (1964), 423-434. (J. Peetre) 29 #6181

On L^p estimates and regularity. III. *Ricerche Mat.* 13 (1964), 192-206. (J. Peetre) 31 #3713

Invariance of the essential spectrum. *Bull. Amer. Math. Soc.* 71 (1965), 365-367. (T. Kato) 30 #5167

(with Ercolano, Joseph) Spectral theory for operators generated by elliptic boundary problems with eigenvalue parameter in boundary conditions. I. *Comm. Pure Appl. Math.* 18 (1965), 83-105. (J. Peetre) 31 #1576

(with Ercolano, Joseph) Spectral theory for operators generated by elliptic boundary problems with eigenvalue parameter in boundary conditions. II. *Comm. Pure Appl. Math.* 18 (1965), 397-414. (J. Peetre) 31 #3710

* (with Bers, Lipman; John, Fritz) Уравнения с частными производными. (Russian) [Partial differential equations] With special lectures by Lars Gårding and A. N. Milgram. Translated from the English by Ju. V. Egorov. Edited by O. A. Oleĭnik. *Izdat. "Mir", Moscow,* 1966. 351 *pp.* (Editors) 34 #7931

Nonlocal elliptic boundary value problems. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 421-441. (Colin Clark) 33 #6146

Interpolation spaces by complex methods. *Bull. Amer. Math. Soc.* 72 (1966), 526-533. (I. G. Amemiya) 33 #558

On the essential spectrum of an arbitrary operator. I. *J. Math. Anal. Appl.* 13 (1966), 205-215. (T. Kato) 32 #6230

Basic theory of Fredholm operators. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 261-280. (S. Goldberg) 36 #6977

Essential spectra of elliptic partial differential equations. *Bull. Amer. Math. Soc.* 73 (1967), 567-572. (C. Clark) 35 #3486

Intermediate extensions in L^p. *Bull. Amer. Math. Soc.* 73 (1967), 979-985. (T. Kato) 36 #2016

Complex interpolation. *Compositio Math.* 18, 117-147 (1967). (J. Peetre) 36 #6927

On the invariance of the essential spectrum of an arbitrary operator. II. *Ricerche Mat.* 16 (1967), 3-26. (C. Clark) 37 #5718

Riesz operators and Fredholm perturbations. *Bull. Amer. Math. Soc.* 74 (1968), 1139-1144. (S. R. Caradus) 37 #6777

The spectra of non-elliptic operators. *Israel J. Math.* 6 (1968), 384-397 (1969). (F. H. Brownell) 40 #6091

(with Coburn, L. A.) Joint spectra and interpolation of operators. *J. Functional Analysis* 2 (1968), 226-237. (M. Cotlar) 37 #3364

On the invariance of the essential spectrum of an arbitrary operator. III. *Proc. Cambridge Philos. Soc.* 64 (1968), 975-984. (C. Clark) 38 #565

Partial differential operators on $L^p(E^n)$. *Bull. Amer. Math. Soc.* 75 (1969), 548-549. (P. Grisvard) 40 #7876

(with Lebow, Arnold) Norms on quotient spaces. *Bull. Amer. Math. Soc.* 75 (1969), 1322-1325. (S. Goldberg) 40 #3348

On the essential spectrum of an elliptic operator perturbed by a potential. *J. Analyse Math.* 22 (1969), 87-115. (J. Smoller) 40 #579

On the spectra of operators on tensor products. *J. Functional Analysis* 4 (1969), 95-99. (A. Brown) 41 #2431

On perturbations of essential spectra. *J. London Math. Soc.* (2) 1 (1969), 343-347. (K. Gustafson) 40 #1809

The spectrum of operators on $L^p(E^n)$. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 201-207. (Y. I. Kannai) 42 #2325

(with Berger, Melvyn S.) L_p embedding and nonlinear eigenvalue problems for unbounded domains. *Bull. Amer. Math. Soc.* 76 (1970), 1299-1302. (S. Newberger) 42 #2294

(with Dash, A. T.) Tensor products and joint spectra. *Israel J. Math.* 8 (1970), 191-193. (C. Pearcy) 41 #5992

The conjugate of a product of operators. *J. Functional Analysis* 6 (1970), 26-28. (S. S. Holland, Jr.) 41 #4273

(with Lebow, Arnold) Semigroups of operators and measures of noncompactness. *J. Functional Analysis* 7 (1971), 1-26. (J. D. Gray) 42 #8301

Schechter, Murray

Buckling of an elastic membrane on a surface of revolution. *Quart. Appl. Math.* 23 (1965), 121-132. (L. S. D. Morley) 33 #2044

Hermite-Birkhoff interpolation problems with complex nodes. *Amer. Math. Monthly* 76 (1969), 1119-1122. (A. K. Varma) 41 #690

Linear programs in topological vector spaces. *J. Math. Anal. Appl.* 37 (1972), 492-500. (J. Stoer) 44 #7968

Schechter, R. S.

(with Himmelblau, D. M.) Local potential and system stability. *Phys. Fluids* 8 (1965), 1431-1437. (R. C. DiPrima) 32 #8632

Schechter, Samuel

Iteration methods for nonlinear problems. *Trans. Amer. Math. Soc.* 104 (1962), 179-189. (G. W. Evans, II) 27 #2122

(with Morton, K. W.) On the stability of finite difference matrices. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 119-128. (H.-O. Kreiss) 31 #6393

Relaxation methods for convex problems. *SIAM J. Numer. Anal.* 5 (1968), 601-612. (H.-O. Kreiss) 40 #1027

Scheck, F.

Veneziano's model and Freedman-Wang daughter trajectories. (Italian and Russian summaries) *Nuovo Cimento A* (10) 63 (1969), 1074-1086. (F. Calogero) 41 #3025

Scheel, K. H.
Der Einfluß des Rundungsfehlers beim Einsatz des Prozeßrechners. I. (English summary) *Regelungstech. Prozess-Datenverarbeit.* 19 (1971), *Heft* 8, 326-331. (H. H. Goldstine) 44 #4941

Scheelbeek, Pieter Antonie Johan
(with Kuipers, L.) Gleichverteilung in kompakten, topologischen Gruppen. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 262-265. (Edwin Hewitt) 29 #185
(with Kuipers, L.) Uniform distribution of sequences from direct products of groups. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 599-606. (J. Chauvineau) 39 #4318

van Scheepen, F.
(See Automation in language translation and theorem proving. Some applications of mathematical logic, 38 #3119)

Scheer, Linda S.
(with Brandt, John C.) A note on functions relating to galactic structure. *Astronom. J.* 70 (1965), 471-475. (Authors' summary) 31 #5676

Scheerer, H.
On principal bundles over spheres. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 353-355. (D. G. Bourgin) 43 #1218

Scheerer, Hans
Homotopieäquivalente kompakte Liesche Gruppen. *Topology* 7 (1968), 227-232. (S. Y. Husseini) 37 #4833

Scheffé, Henry
The simplex-centroid design for experiments with mixtures (with discussion). *J. Roy. Statist. Soc. Ser. B* 25 (1963), 235-263. (M. M. Siddiqui) 30 #678
Multiple testing versus multiple estimation. Improper confidence sets. Estimation of directions and ratios. *Ann. Math. Statist.* 41 (1970), 1-29. (E. S. Keeping) 40 #8169
Practical solutions of the Behrens-Fisher problem. *J. Amer. Statist. Assoc.* 65 (1970), 1501-1508. (Author's summary) 42 #8609
A note on separation of variables. *Technometrics* 12 (1970), 388-393. (Author's summary) 43 #4976

Scheffel, H.
Ein Analyseverfahren zur Berechnung elektrischer Netzwerke auf dem Analogrechner. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 195-200. (J. Kuntzmann) 42 #5729

Scheffer, Carel L.
Sur l'existence de la limite projective dans la catégorie des espaces de probabilité tendus. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A205-A207. (A. Appert) 40 #1567
Limits of directed projective systems of probability spaces. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 60-80. (K. Krickeberg) 41 #7731
La limite projective des espaces topologiques de Hausdorff compacts dans la catégorie des diffusions continues sousmarkoviennes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1198-A1201. (Z. Semadeni) 43 #7949

Scheibe, Erhard
(See Tarski, Alfred, 40 #5409)

Scheiblich, H. E.
(with Reilly, N. R.) Congruences on regular semigroups. *Pacific J. Math.* 23 (1967), 349-360. (R. J. Warne) 36 #2725
Certain congruence and quotient lattices related to completely 0-simple and primitive regular semigroups. *Glasgow Math. J.* 10 (1969), 21-24. (G. J. Lallement) 39 #5740
Semimodularity and bisimple ω-semigroups. *Proc. Edinburgh Math. Soc.* (2) 17 (1970), 79-81. (G. J. Lallement) 42 #3206
A characterization of a free elementary inverse semigroup. *Semigroup Forum* 2 (1971), *no.* 1, 76-79. (T. Tamura) 44 #349

Scheibling, F.
(with Umezawa, M.) Invariant quantities in a simple group G_2. *Nederl. Akad. Wetensch. Proc. Ser. B* 73 (1970), 22-32. (Bruno Harris) 41 #1923

Scheick, J. T.
Polynomial approximation of functions analytic in a disk. *Proc. Amer. Math. Soc.* 17 (1966), 1238-1243. (O. Shisha) 34 #6122

Scheid, Harald
Über arithmetische Progressionen der Länge p. *J. Reine Angew. Math.* 232 (1968), 118-121. (P. Szüsz) 39 #163
Arithmetische Funktionen über Halbordnungen. I. *J. Reine Angew. Math.* 231 (1968), 192-214. (O. H. Körner) 38 #1074
Arithmetische Funktionen über Halbordnungen. II. *J. Reine Angew. Math.* 232 (1968), 207-220. (O. H. Körner) 38 #4445
Die Anzahl der Primfaktoren in $\binom{n}{k}$. *Arch. Math. (Basel)* 20 (1969), 581-582. (J. B. Roberts) 41 #146
Einige Ringe zahlentheoretischer Funktionen. *J. Reine Angew. Math.* 237 (1969), 1-11. (D. Rearick) 40 #107
Über ordnungstheoretische Funktionen. *J. Reine Angew. Math.* 238 (1969), 1-13. (W. Narkiewicz) 40 #64
(with Sivaramakrishnan, R.) Certain classes of arithmetic functions and the operation of additive convolution. *J. Reine Angew. Math.* 245 (1970), 201-207. (T. M. Apostol) 42 #5930
Funktionen über lokal endlichen Halbordnungen. I. *Monatsh. Math.* 74 (1970), 336-347. (C. G. Wagner) 43 #3226

Scheifele, Gerhard
* Verallgemeinerte kanonische Transformationen zur Abbildung von Keplerbewegungen auf harmonische Oszillatoren und zugehörige Störungstheorie. Abhandlung zur Erlangung der Würde eines Doktors der Naturwissenschaften der Eidgenössischen Technischen Hochschule, Zürich. Dissertation No. 4212. *Juris Verlag, Zürich,* 1968. 107 *pp.* (V. Szebehely) 39 #6555
(with Stiefel, Eduard) Régularisation du mouvement képlerien perturbé dans l'espace à trois dimensions par une transformation canonique généralisée. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A950-A953. (V. Szebehely) 39 #6556
Généralisation des éléments de Delaunay en mécanique céleste. Application au mouvement d'un satellite artificiel. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A729-A732. (V. Szebehely) 44 #4956
On numerical integration of perturbed linear oscillating systems. (German summary) *Z. Angew. Math. Phys.* 22 (1971), 186-210. (C. W. Gear) 44 #2353

Schein, B. M. See Šaĭn, B. M.

Scheinberg, Stephen
Note on the Boolean properties of context free languages. *Information and Control* 3 (1960), 372-375. (A. D. Booth) 22 #9377
(with Kamowitz, Herbert) The spectrum of automorphisms of Banach algebras. *J. Functional Analysis* 4 (1969), 268-276. (R. B. Burckel) 40 #3316
(with Kamowitz, Herbert) Derivations and automorphisms of $L^1(0,1)$. *Trans. Amer. Math. Soc.* 135 (1969), 415-427. (M. J. Fisher) 38 #1533
Power series in one variable. *J. Math. Anal. Appl.* 31 (1970), 321-333. (Author's summary) 42 #3262
Topologies which generate a complete measure algebra. *Advances in Math.* 7, 231-239 (1971). (Erik G. F. Thomas) 44 #4172
A convergence question in H^p. *Proc. Amer. Math. Soc.* 30 (1971), 120-124. (S. Merrill) 44 #439

Scheinok, Perry A.
The distribution functions of random variables in arithmetic domains modulo a. *Amer. Math. Monthly* 72 (1965), 128-134. (C. C. Craig) 30 #3491
Spectral analysis with randomly missed observations: The binomial case. *Ann. Math. Statist.* 36 (1965), 971-977. (E. Parzen) 31 #4120
(with Trench, William F.) On the inversion of a Hilbert type matrix. *SIAM Rev.* 8 (1966), 57-61. (F. L. Bauer) 33 #8092
(with Flatto, Leopold) Infinitely divisible distributions on cyclic groups. *Amer. Math. Monthly* 74 (1967), 255-261. (R. Fischler) 35 #1054

Scheja, Günter
Über die Bettizahlen lokaler Ringe. *Math. Ann.* 155 (1964), 155-172. (M. Nagata) 29 #123
Fortsetzungssätze der komplex-analytischen Cohomologie und ihre algebraische Charakterisierung. *Math. Ann.* 157 (1964), 75-94. (H. Röhrl) 31 #738
Über Primfaktorzerlegung in zweidimensionalen lokalen Ringen. *Math. Ann.* 159 (1965), 252-258. (H. T. Muhly) 31 #3450
Einige Beispiele faktorieller lokaler Ringe. *Math. Ann.* 172 (1967), 124-134. (H. Röhrl) 37 #4066
(with Wiebe, Hartmut) Über die Divisorenklassengruppen lokaler Ringe auf zweidimensionalen normalen Hyperflächen. *Math. Ann.* 172 (1967), 229-237. (H. Röhrl) 37 #4067
* (with Reiffen, Hans-Jörg; Vetter, Udo) Algebra. B. I. Hochschultaschenbücher, Band 110/a. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. 272 *pp.* (O. H. Kegal) 39 #6702
Multiplizitätenvergleich unter Verwendung von Testkurven. *Comment. Math. Helv.* 44 (1969), 438-445. (W. Vogel) 41 #5374
(See also Behnke, H.; Thullen, P., 42 #6274)
Über ganz-algebraische Abhängigkeit in der Idealtheorie. *Comment. Math. Helv.* 45 (1970), 384-390. (H. S. Butts) 42 #7648
(with Storch, Uwe) Bemerkungen über die Einheitengruppen semilokaler Ringe. *Math.-Phys. Semesterber.* 17 (1970), 168-181. (E. F. Assmus, Jr.) 42 #3079
(with Storch, Uwe) Über differentielle Abhängigkeit bei Idealen analytischer Algebren. *Math. Z.* 114 (1970), 101-112. (W. V. Vasconcelos) 41 #8408

Schektman, Yves
Sur l'estimation des moments de la variable latente pour un modèle continu en analyse de structure latente. *C. R. Acad. Sci. Paris* 260 (1965), 6513-6516. (M. Stone) 32 #7264
(with Caussinus, Henri) Étude d'une classe de modèles continus non linéaires en analyse de structure latente. *C. R. Acad. Sci. Paris* 261 (1965), 2805-2808. (M. Stone) 33 #2425

Scheler, Lucien

Les *Lettres de Dettonville* offertes à Jean-Baptiste Colbert. *Rev. Histoire Sci. Appl.* 15 (1962), 351-365. (I. N. Veselovskiĭ) 33 #1205

Schelkens, R.

Ferroelectric and antiferroelectric symmetry groups. (French summary) *Phys. Status Solidi* 37 (1970), 739-743. (W. Miller, Jr.) 44 #6236

Schelkunoff, Sergei A.

* Applied mathematics for engineers and scientists. The Bell Telephone Laboratories Series. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto-London*, 1965. xii + 496 *pp.* (Editors) 31 #911

Schell, Hans-Joachim

Asymptotische Entwicklungen für Parameterintegrale vom Faltungstyp. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 21-30. (S. C. van Veen) 31 #1511

Eine asymptotische Aussage über das absolut kleinste Restglied von alternierenden asymptotischen Entwicklungen. *Math. Nachr.* 44 (1970), 157-164. (J. L. Fields) 43 #6644

Schell, Hugo

(with Hofmeister, G.) Reichweiten von Mengen natürlicher Zahlen. I. (English summary) *Norske Vid. Skr. Forh. (Trondheim)* 1970, *no.* 10, 5 *pp.* (A. R. Freedman) 44 #1642

Schellenberg, P. J.

(with Mullin, R. C.) The enumeration of *c*-nets via quadrangulations. *J. Combinatorial Theory* 4 (1968), 259-276. (W. G. Brown) 36 #1362

(with Mullin, R. C.; Nemeth, E.) The enumeration of almost cubic maps. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 281-295. *Louisiana State Univ., Baton Rouge, La.*, 1970. (Authors' summary) 42 #1722

von Schelling, Hermann

Stochastic approach to the laws of motion. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 1015-1026. (K. Magnus) 30 #3592

Schelp, R. H.

(with Gudder, S. P.) Coordinatization of orthocomplemented and orthomodular posets. *Proc. Amer. Math. Soc.* 25 (1970), 229-237. (D. J. Foulis) 41 #3336

A partial semigroup approach to partially ordered sets. *Proc. London Math. Soc.* (3) 24 (1972), 46-58. (V. S. Krishnan) 44 #6578

Schemmel, H.

(with Zwick, W.) Näherungsmethoden zur Lösung des nichtlinearen Transportproblems. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 159-164. (E. L. Johnson) 33 #3778a

(with Zwick, W.) Näherungsmethoden zur Lösung des nichtlinearen Mehrindex-Transportproblems. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 173-178. (E. L. Johnson) 33 #3778b

Schempp, Walter

(with Niethammer, W.) On the construction of iteration methods for linear equations in Banach spaces by summation methods. *Aequationes Math.* 5 (1970), 273-284. (D. C. Handscomb) 44 #7695

Iterative solution of linear operator equations in Hilbert space and optimal Euler methods. *Arch. Math. (Basel)* 21 (1970), 390-395. (R. A. Tapia) 43 #2539

Über Dahlquist-Distributionen. *Arch. Math. (Basel)* 21 (1970), 506-511. (I. Fenyő) 43 #911

On spaces of distributions related to Schoenberg's approximation theorem. *Math. Z.* 114 (1970), 340-348. (K. Scherer) 42 #2235

(with Delvos, F. J.) On spline systems. *Monatsh. Math.* 74 (1970), 399-409. (L. L. Schumaker) 43 #2399

Schendekehl, Hermann

* Ein Verfahren zur Abschätzung der Ableitungen am Gebietsrande bei elliptischen Differentialgleichungen. Zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften von der Fakultät für Natur- und Geisteswissenschaften der Technischen Hochschule Karlsruhe, genehmigte Dissertation. *Dissertation, Karlsruhe*, 1963. ix + 63 *pp.* (R. C. MacCamy) 31 #2499

Schenk, Rainer

* Eine Methode zur Fehlerabschätzung für die num. Lösung der Transportgleichungen für Wärme, Impuls und Stoff. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 383-386. 43 #4284

Schenkman, Eugene

On the multiplicative group of a field. *Arch. Math.* 15 (1964), 282-285. (P. M. Cohn) 30 #89

* Group theory. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London*, 1965. xiv + 289 *pp.* (C. W. Curtis) 33 #5702

(with Auslander, L.) Free groups, Hirsch-Plotkin radicals, and applications to geometry. *Proc. Amer. Math. Soc.* 16 (1965), 784-788. (R. C. Lyndon) 31 #4830

Some two-generator groups with two relations. *Arch. Math. (Basel)* 18 (1967), 362-363. (Tekla Lewin) 37 #2842

A replacement theorem for nilpotent groups with maximum condition. *Illinois J. Math.* 12 (1968), 307-311. (B. Amberg) 37 #1474

The general product of two finitely generated abelian groups. *Proc. Amer. Math. Soc.* 21 (1969), 202-204. (A. Mader) 38 #4565

Some criteria for nilpotency in groups and Lie algebras. *Proc. Amer. Math. Soc.* 21 (1969), 714-718. (H. Heineken) 39 #2880

The tower theorem for finite groups. *Proc. Amer. Math. Soc.* 22 (1969), 458-459. (E. L. Spitznagel, Jr.) 39 #6967

The number of Hall π-subgroups of a finite group. *Illinois J. Math.* 14 (1970), 241-243. (J. Sancho San Roman) 41 #6976

Scherer, Karl

(with Butzer, P. L.; Nessel, R. J.) Trigonometric convolution operators with kernels having alternating signs and their degree of convergence. *Jber. Deutsch. Math.-Verein.* 70 (1967), *Heft* 2, *Abt.* 1, 86-99. (J. W. Jerome) 37 #4489

* (with Butzer, Paul) Approximationsprozesse und Interpolationsmethoden. B. I. Hochschulskripten, 826/826a. *Bibliographisches Institut, Mannheim-Zürich*, 1968. i + 172 *pp.* (G. G. Lorentz) 41 #4099

(with Butzer, P. L.) Über die Fundamentalsätze der klassischer Approximationstheorie in abstrakten Räumen. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach,* 1968*), pp.* 113-125. *Birkhäuser, Basel*, 1969. (W. J. Davis) 41 #7356

* Dualität bei Interpolations- und Approximationsräumen. Von der Mathematisch-Naturwissenschaftlichen Fakultät der Rheinisch-Westfälischen Technischen Hochschule Aachen zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften genehmigte Dissertation. *Dissertation, Aachen*, 1969. iii + 76 *pp.* (J. Peetre) 42 #755

(with Butzer, P. L.) On the fundamental approximation theorems of D. Jackson, S. N. Bernstein and theorems of M. Zamansky and S. B. Stečkin. *Aequationes Math.* 3 (1969), 170-185. (E. W. Cheney) 41 #8897

(with Butzer, P. L.) On fundamental theorems of approximation theory and their dual versions. *J. Approximation Theory* 3 (1970), 87-100. (W. J. Davis) 42 #750

On the best approximation of continuous functions by splines. *SIAM J. Numer. Anal.* 7 (1970), 418-423. (L. L. Schumaker) 42 #2634

Scherk, J.

(with Burnett, T. H.; Gross, D. J.; Neuveu, A.; Schwarz, J. H.) Renormalized self-energy operator in the dual-resonance model. *Phys. Lett.* 32B (1970), 115-120. (K. Chadan) 44 #6261

Scherk, Peter

On the exactness of the homotopy sequence. *Canad. Math. Bull.* 7 (1964), 617-618. (W. D. Barcus) 30 #1513

On a theorem of Mann and Dyson. *J. Reine Angew. Math.* 217 (1965), 49-63. (D. J. Lewis) 31 #145

On sets of vectors. *Math. Scand.* 16 (1965), 38-40. (H. Minc) 32 #7564

On Carathéodory's theorem. *Canad. Math. Bull.* 9 (1966), 463-465. (G. T. Sallee) 34 #3438

* Topics in the theory of elliptic functions. Queen's Papers in Pure and Applied Mathematics, No. 8. *Queen's University, Kingston, Ont.*, 1967. ii + 306 *pp.* (S. M. Shah) 35 #4473

On differentiable arcs and curves. VI. Singular osculating spaces of curves of order $n + 1$ in projective n-space. *Canad. J. Math.* 19 (1967), 1042-1061. (W. Burau) 37 #3492

(with Heilbronn, H.) Sums of complexes in torsion free abelian groups. *Canad. Math. Bull.* 12 (1969), 479-480. (J. D. Tarwater) 40 #2751

Über eine Klasse von Polyederfunktionalen. *Comment. Math. Helv.* 44 (1969), 191-201. (H. E. Debrunner) 39 #6169

Scherman, D. J. See Šerman, D. I.

Schermann, D. I. See Šerman, D. I.

Schermann, K.

(with Dénes, J.) Similar permutations in the alternating group. *Mat. Vesnik* 5(20) (1968), 19-20. (A. R. Camina) 37 #5282

Scherrer, Willy

* Grenzfragen der Wissenschaft. Vorträge und Abhandlungen aus dem Bereich der exakten Wissenschaften. *Verlag Paul Haupt, Bern*, 1964. 130 *pp.* *(1 plate)* (G. Y. Rainich) 32 #2296

Darstellung der Gravitationsenergie. *Helv. Phys. Acta* 37 (1964), 317-328. (P. G. Bergmann) 31 #3207

Über die Selbstenergie einer geldadenen Masse. *Helv. Phys. Acta* 38 (1965), 215-226. (Author's summary) 30 #4553

Schestakoff, W. See Šestakov, V. I.

Schett, Alois

(with Weil, J. W.) On the solution of some important second order differential equations in physics using Lie series. *Acta Phys. Austriaca* 24 (1966), 368-372. (Authors' introduction) 35 #1857 (with Weil, J.) Lie series solution of the equations resulting from a separation of the Helmholtz equation in special coordinate systems. *Acta Phys. Austriaca* 25 (1967), 81-92. (S. P. Diliberto) 35 #3205

(with Weil, Juergen W.) On the solution of the general inhomogeneous linear differential equation of second order using Lie series representation. (German summary) *Monatsh. Math.* 71 (1967), 156-164. (W. Sangren) 35 #1858

Schetz, Joseph A.

(with Jannone, Joseph) A study of linearized approximations to the boundary-layer equations. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 757-764. (J. D. Murray) 32 #6805

Schetzen, Martin

Measurement of the kernels of a non-linear system of finite order. *Internat. J. Control* (1) 1 (1965), 251-263. 33 #1175

Power-series equivalence of some functional series with applications. *IEEE Trans. Circuit Theory* CT-17 (1970), 305-313. (V. M. Bhise) 42 #6540

Scheuer, Ernest M.

(with Barlow, Richard E.) Reliability growth during a development testing progrma. *Technometrics* 8 (1966), 53-60. (L. A. Aroian) 33 #3425

(with Barlow, Richard E.; Madansky, Albert; Proschan, Frank) Statistical estimation procedures for the "burn-in" process. *Technometrics* 10 (1968), 51-62. (H. L. Harter) 37 #4930

Scheuneman, John

Two-step nilpotent Lie algebras. *J. Algebra* 7 (1967), 152-159. (G. B. Seligman) 36 #225

(with Auslander, Louis) On certain automorphisms of nilpotent Lie groups. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 9-15. *Amer. Math. Soc., Providence, R. I.,* 1970. (E. Luks) 42 #5284

(with MacKenzie, Robert) A number field without a relative integral basis. *Amer. Math. Monthly* 78 (1971), 882-883. (S. I. Gendler) 44 #5292

Examples of compact locally affine spaces. *Bull. Amer. Math. Soc.* 77 (1971), 589-592. (R. Ouzilou) 44 #7554

Schiaffino, Andrea

A proposito di un teorema di rotocontrazione. *Ann. Mat. Pura Appl.* (4) 73 (1966), 221-231. (P. V. Reichelderfer) 34 #3553

Sui complessi di celle privilegiati in una traslazione piana generalizzata. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 334-353. (P. Vincensini) 34 #8261

Su un problema di disequazione variazionali per operatori differenziali opdinari. (English summary) *Boll. Un. Mat. Ital.* (4) 2 (1969), 25-35. (C. Avramescu) 39 #4474

(with Troianiello, Giovanni M.) Su alcuni problemi di disequazioni variazionali per sistemi differenziali ordinari. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 76-103. (C. Corduneanu) 41 #7193

Schick, Lee H.

Analytic solutions for nonlocal singlet-even nucleon-nucleon potentials. *Phys. Rev.* (2) 136 (1964), B1624-B1632. (B. P. Nigam) 31 #3117

Schiefelbusch, Lary

The Trofimov number of some infinite groups with finiteness conditions. *Arch. Math. (Basel)* 18 (1967), 122-127. (M. F. Newman) 35 #1657

Schiek, Helmut

Adjunktionsproblem und inkompressible Relationen. II. *Math. Ann.* 161 (1965), 163-170. (Hanna Newmann) 32 #2463

Schieve, William C.

(with Leaf, B.) Correlation function calculation of the lattice thermal conductivity by classical Liouville methods. *Physica* 30 (1964), 1208-1216. (R. Balescu) 31 #4519

(with Leaf, Boris) Reversibility of the Liouville equation and the approach to equilibrium. *Physica* 30 (1964), 1389-1408. (R. Balescu) 31 #6619

(with Hardy, Robert J.; Swenson, Robert J.) Perturbation expansion for lattice thermal conductivity. *J. Mathematical Phys.* 6 (1965), 1741-1748. (J. A. McLennan) 32 #5274a

van Schieveen, Henk M.

(with Wilkie, Dennis F.) On the sensitivity of the linear state regulator. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 549-563. *Univ. of Illinois, Urbana, Ill.,* 1969. (Authors' summary) 41 #8111

(with Wilkie, Dennis F.) On the sensitivity of the linear state regulator. *Internat. J. Control* (1) 12 (1970), 709-719. (Authors' summary) 42 #9023

Schiff, J. L.

(with Kwon, Y. K.; Sario, L.) The p-harmonic boundary and energy-finite solutions of $\Delta u = Pu$. *Nagoya Math. J.* 42 (1971), 31-41. (W. H. Ow) 44 #5892

(with Kwon, Y. K.; Sario, L.) Bounded energy-finite solutions of $\Delta u = Pu$ on a Riemannian manifold. *Nagoya Math. J.* 42 (1971), 95-108. (W. H. Ow) 44 #4689

Schiff, Leonard

The asymptotic error probability for transmission of orthogonal signals over the generalized incoherent channel. *IEEE Trans. Information Theory* IT-15 (1969), 48-52. (Author's summary) 39 #2517

(with Wolf, Jack K.) High-speed binary data transmission over the additive band-limited Gaussian channel. *IEEE Trans. Information Theory* IT-15 (1969), 287-295. (Authors' summary) 40 #3983

Schiffels, Gerhard

Analytische Mannigfaltigkeiten und lokale Ringe von algebraischen Funktionenkörpern. *J. Reine Angew. Math.* 239/240 (1969), 382-400. (W. D. Geyer) 41 #1732

Schiffer, Menahem Max

(with Hawley, N. S.) Connections and conformal mapping. *Acta Math.* 107 (1962), 175-274. (H. L. Royden) 32 #202

Fredholm eigenvalues and conformal mapping. *Rend. Mat. e Appl.* (5) 22 (1963), 447-468. (Z. Nehari) 31 #322

(with Reich, Edgar) Estimates for the transfinite diameter of a continuum. *Math. Z.* 85 (1964), 91-106. (Z. Nehari) 30 #4921

* (with Adler, Ronald; Bazin, Maurice) Introduction to general relativity. *McGraw-Hill Book Co., New York-Toronto-London-Sydney,* 1965. xv + 451 *pp.* (W. B. Bonnor) 30 #5779

(with Tammi, O.) The fourth coefficient of a bounded real univalent function. *Ann. Acad. Sci. Fenn. Ser. A I No.* 354 (1965), 32 *pp.* (V. Singh) 35 #4394

(with Epstein, Bernard) On the mean-value property of harmonic functions. *J. Analyse Math.* 14 (1965), 109-111. (John W. Green) 31 #1388

(with Springer, G.) Fredholm eigenvalues and conformal mapping of multiply connected domains. *J. Analyse Math.* 14 (1965), 337-378. (Z. Nehari) 32 #2569

(with Garabedian, P. R.; Ross, G. G.) On the Bieberbach conjecture for even n. *J. Math. Mech.* 14 (1965), 975-989. (W. C. Royster) 32 #207

(with Sario, Leo; Glasner, Moses) The span and principal functions in Riemannian spaces. *J. Analyse Math.* 15 (1965), 115-134. (T. Klotz) 32 #1655

(with Tammi, O.) On the fourth coefficient of bounded univalent functions. *Trans. Amer. Math. Soc.* 119 (1965), 67-78. (Z. Nehari) 32 #2579

(with Hawley, N. S.) Half-order differentials on Riemann surfaces. *Acta Math.* 115 (1966), 199-236. (L. V. Ahlfors) 32 #7739

A variational method for univalent quasiconformal mappings. *Duke Math. J.* 33 (1966), 395-411. (K. Strebel) 33 #5883

(with Tammi, O.) A method of variations for functions with bounded boundary rotation. *J. Analyse Math.* 17 (1966), 109-144. (M. Reade) 35 #5601

Half-order differentials on Riemann surfaces. *SIAM J. Appl. Math.* 14 (1966), 922-934. (G. G. Weill) 34 #6078

(with Tammi, O.) On the fourth coefficient of univalent functions with bounded boundary rotation. *Ann. Acad. Sci. Fenn. Ser. A I No.* 396 (1967), 26 *pp.* (Ch. Pommerenke) 35 #3052

(with Garabedian, P. R.) The local maximum theorem for the coefficients of univalent functions. *Arch. Rational Mech. Anal.* 26 (1967), 1-32. (Ch. Pommerenke) 37 #1584

Univalent functions whose n first coefficients are real. *J. Analyse Math.* 18 (1967), 329-349. (W. C. Royster) 35 #5603

(with Hawley, N. S.) Riemann surfaces which are doubles of plane domains. *Pacific J. Math.* 20 (1967), 217-222. (F. Huckemann) 34 #7791

(with Tammi, Olli) On bounded univalent functions which are close to identity. *Ann. Acad. Sci. Fenn. Ser. A I No.* 435 (1968), 26 *pp.* (R. J. Libera) 39 #4372

On the coefficient problem for univalent functions. *Trans. Amer. Math. Soc.* 134 (1968), 95-101. (J. L. Kazdan) 37 #4249

(with Hummel, James A.) Coefficient inequalities for Bieberbach-Eilenberg functions. *Arch. Rational Mech. Anal.* 32 (1969), 87-99. (W. C. Royster) 39 #426

(with Tammi, Olli) On the coefficient problem for bounded univalent functions. *Trans. Amer. Math. Soc.* 140 (1969), 461-474. (M. Reade) 39 #7088

Some distortion theorems in the theory of conformal mapping. (Italian summary) *Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. Ia* (8) 10 (1970), 1-19. (Ch. Pommerenke) 43 #3435

(with Pederson, R. N.) Further generalizations of the Grunsky inequalities. *J. Analyse Math.* 23 (1970), 353-380. (R. J. Libera) 42 #6210

Schiffman, R. L.

(with Habetler, G. J.) A finite difference method for analyzing the compression of poro-viscoelastic media. (German summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 342-348. 44 #3584

Schiffmann, Gérard

Frontières de Furstenberg et formules de Poisson sur un groupe de Lie semi-simple. *Séminaire Bourbaki,* 1963/64, *Fasc.* 2, *Exposé* 268, 12 *pp. Secrétariat mathématique, Paris,* 1964. (R. Hermann) 31 #3982

Invariance par cobordisme de l'indice analytique. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique (Séminaire H. Cartan, 16e année: 1963/64, Fasc. 2), Exposé 23, 14 pp. Secrétariat mathématique, Paris,* 1965. (J. Dieudonné) See 31 #4047b

Distributions centrales de type positif sur un groupe de Lie nilpotent. *Bull. Soc. Math. France* 96 (1968), 347-355. (H. A. Smith) 39 #7422

Intégrales d'entrelacement. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A47-A49. (A. Kleppner) 38 #2248

Intégrales d'entrelacement: cas des groupes de Lorentz. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A859-A861. (A. Kleppner) 38 #2249

Distributions centrales sur SL(2,R). *Ann. Inst. H. Poincaré Sect. A (N.S.)* 13 (1970), 229-340. (R. A. Gangolli) 43 #7559

Schikhof, W. H.

(with Rooij, A. C. M. van) Non-Archimedean integration theory. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 190-199. (A. F. Monna) 39 #4356

Differentiation in non-archimedean valued fields. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 35-44. (L. Narici) 41 #7433

Non-archimedean representations of compact groups. *Compositio Math.* 23 (1971), 215-232. (L. Corwin) 44 #6909

Schilcher, K.

(with Mavromatis, H. A.) Inverse functions of the products of two Bessel functions and applications to potential scattering. *J. Mathematical Phys.* 9 (1968), 1627-1632. (F. Calogero) 38 #4111

Schild, Albert

On starlike functions of order α. *Amer. J. Math.* 87 (1965), 65-70. (M. Reade) 30 #4929

(with Gray, E.) A new proof of a conjecture of Schild. *Proc. Amer. Math. Soc.* 16 (1965), 76-77. (Z. Lewandowski) 30 #2136

(with Mandelbaum, Joseph) A property of the zeros of a polynomial. *Math. Mag.* 42 (1969), 247-248. (E. Frank) 40 #6766

Schild, Alfred E.

Conservative gravitational theories of Whitehead's type. *Recent developments in general relativity, pp. 409-413. Pergamon, Oxford; PWN--Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2067

(with Kerr, R. P.) Some algebraically degenerate solutions of Einstein's gravitational field equations. *Proc. Sympos. Appl. Math., Vol. XVII, pp. 199-209. Amer. Math. Soc., Providence, R. I.,* 1965. (F. A. E. Pirani) 35 #7675

(with Schlosser, J. A.) Fokker action principle for particles with charge, spin, and magnetic moment. *J. Mathematical Phys.* 6 (1965), 1299-1306. (Gerald Rosen) 31 #5649

(with Pirani, F. A. E.) Conformal geometry and the interpretation of the Weyl tensor. *Perspectives in Geometry (Essays in honor of V. Hlavatý), pp. 291-309. Indiana Univ. Press, Bloomington, Ind.,* 1966. (H. Rund) 33 #7951

(with Duffin, R. J.) The potential energy of an electric charge is a superharmonic function. *Arch. Rational Mech. Anal.* 25 (1967), 156-158. (J. E. Rosenthal) 35 #1270

(with Robinson, Ivor; Strauss, Henry) A generalized Reissner-Nordström solution. *Internat. J. Theoret. Phys.* 2 (1969), 243-245. (P. S. Florides) 41 #6544

(with Debney, G. C.; Kerr, R. P.) Solutions of the Einstein and Einstein-Maxwell equations. *J. Mathematical Phys.* 10 (1969), 1842-1854. (J. Blackman) 40 #3873

Schilder, Michael

Some asymptotic formulas for Wiener integrals. *Trans. Amer. Math. Soc.* 125 (1966), 63-85. (D. A. Storvick) 34 #1770

Expected values of functionals with respect to the Ito distribution. *Pacific J. Math.* 25 (1968), 371-380. (E. H. Lehman, Jr.) 37 #2320

Some structure theorems for the symmetric stable laws. *Ann. Math. Statist.* 41 (1970), 412-421. (E. J. Hannan) 40 #8122

Schile, R. D.

(with Sierakowski, R. L.) On the axially symmetric deformation of a nonhomogeneous, elastic material. *J. Franklin Inst.* 278 (1964), 327-336. (Authors' summary) 29 #5442

Schiller, John

Riemann matrices for hyperelliptic surfaces with involutions other than the interchange of sheets. *Michigan Math. J.* 15 (1968), 283-287. (L. Keen) 39 #2969

Moduli for special Riemann surfaces of genus 2. *Trans. Amer. Math. Soc.* 144 (1969), 95-113. (L. Keen) 41 #462

A classification of hyperelliptic Riemann surfaces with automorphisms by means of characteristic Riemann matrices. *Michigan Math. J.* 18 (1971), 169-186. (H. H. Martens) 44 #5453

Schiller, Ralph

(with Rafanelli, Kenneth) Classical motions of spin-1/2 particles. *Phys. Rev.* (2) 135 (1964), B279-B281. (Authors' summary) 29 #952

Schilling, O. F. G.

(See Arithmetical algebraic geometry, 33 #1308)

Schillo, Paul J.

(with Severo, Norman C.; Montzingo, Lloyd J., Jr.) Characterization of the asymptotic distribution of a transformed normal random variable. *Sankhyā Ser. A* 27 (1965), 417-422. (R. H. Farrell) 34 #2045

Schilow, G. E. See Šilov, G. E.

Schimming, R.

Zur Gültigkeit des Huygensschen Prinzips bei einer speziellen Metrik. (English and Russian summaries) *Z. Angew. Math. Mech.* 51 (1971), 201-208. (S. Gołąb) 44 #7497

Schincke, Erich

Stetige schallnahe Potentialströmungen um eine Familie symmetrischer Profile mit abgerundeter Nase und ihre Grenzlinieneigenschaften. *Ber. Verh. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* 105, *no.* 3, 73 *pp.* (1963). (C. S. Morawetz) 29 #3084

Schallnahe symmetrische Potentialströmungen um geschlossene Profile mit stetigem Schalldurchgang und ihre Grenzlinieneigenschaften. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 453-470. (C. S. Morawetz) 32 #8644

Über Eigenschaften von Grenzlinien im Überschallbereich eines strömenden Gases mit Poissonscher Adiabate. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 435-448. (C. S. Morawetz) 31 #2933

(See also Beiträge zur Analysis und angewandten Mathematik, 39 #1256)

Schindler, G. M.

On the geometric shape of axial-symmetric shock waves from a point source explosion in a nonhomogeneous medium. *J. Soc. Indust. Appl. Math.* 13 (1965), 851-863. (A. K. Ray) 31 #6482

Schindler, Karl

Adiabatic particle orbits in discontinuous fields. *J. Mathematical Phys.* 6 (1965), 313-321. (C. S. Gardner) 34 #2233

Adiabatische Teilchenbahnen in räumlich stark veränderlichen Feldern. (English summary) *Z. Physik* 183 (1965), 100-112. (A. Lenard) 31 #5613

Schindler, S.

Ein vereinfachtes Newtonsches Verfahren für Differentialgleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 7 (1971), 113-126. (A. O. Garder, Jr.) 44 #4910

Schindler, Susan

Some transplantation theorems for the generalized Mehler transform and related asymptotic expansions. *Trans. Amer. Math. Soc.* 155 (1971), 257-291. (R. A. Askey) 43 #5250

Schinzel, André

(with Bhaskaran, M.) A new elementary estimation for the sum of real characters. *Prace Mat.* 8 (1963/64), 99-102. (J. Mycielski) 32 #97

(with Sierpiński, W.) Sur l'équation diophantienne $(x^2 - 1)(y^2 - 1) = [(y - x/2)^2 - 1]^2$. *Elem. Math.* 18 (1963), 132-133. (W. Ljunggren) 29 #1180

(with Mikusiński, J.) Sur la réductibilité de certains trinômes. *Acta Arith.* 9 (1964), 91-95. (E. Inaba) 29 #1205

(with Davenport, H.; Lewis, D. J.) Polynomials of certain special types. *Acta Arith.* 9 (1964), 107-116. (J. B. Kelly) 29 #1179

(with Bergman, S.; Duda, R.; Knaster, B.; Mycielski, Jan) Kazimierz Zarankiewicz (2. V. 1902-5. IX. 1959) *Colloq. Math.* 12 (1964), 277-288. (Editors) 30 #4658

Correction à la communication "Solution d'un problème de K. Zarankiewicz...". *Colloq. Math.* 12 (1964), 289. (Editors) 30 #4755

(with Makowski, A.) On the functions $\phi(n)$ and $\sigma(n)$. *Colloq. Math.* 13 (1964/65), 95-99. (E. Cohen) 30 #3870

(with Hartman, S.; Mycielski, Jan; Rolewicz, S.) Concerning the characterization of linear spaces. *Colloq. Math.* 13 (1964/65), 199-208. (W. T. van Est) 32 #1284

(with Davenport, H.) Two problems concerning polynomials. *J. Reine Angew. Math.* 214/215 (1964), 386-391. (M. J. Wonenburger) 29 #93

(with Sierpiński, W.) On the equation $x^2 - 2y^2 = k$. (Polish) *Wiadom. Mat.* (2) 7, 229-232 (1964). (J. W. Andrushkiw) 32 #2375

On the reducibility of polynomials and in particular of trinomials. *Acta Arith.* 11 (1965/66), 1-34. (W. Ljunggren) 31 #4783

On a theorem of Bauer and some of its applications. *Acta Arith.* 11 (1965/66), 333-344. (W. H. Mills) 32 #7544(E)

(with Lewis, D. J.; Zassenhaus, H.) An extension of the theorem of Bauer and polynomials of certain special types. *Acta Arith.* 11 (1965/66), 345-352. (W. H. Mills) 32 #7545

(with Davenport, H.; Lewis, D. J.) Quadratic Diophantine equations with a parameter. *Acta Arith.* 11 (1965/66), 353-358. (J. B. Kelly) 32 #2373

On sums of roots of unity. Solution of two problems of R. M. Robinson. *Acta Arith.* 11 (1965/66), 419-432. (F. Supnick) 34 #1302

Errata to: "On the reducibility of polynomials and in particular of trinomials". *Acta Arith.* 11 (1965/66), 491. (Editors) 33 #5613

(with Davenport, H.) A combinatorial problem connected with differential equations. *Amer. J. Math.* 87 (1965), 684-694. (N. G. de Bruijn) 32 #7426

On Hilbert's irreducibility theorem. *Ann. Polon. Math.* 16 (1965), 333-340. (D. J. Lewis) 30 #3868

(with Sierpiński, W.) Sur les puissances propres. *Bull. Soc. Roy. Sci. Liège* 34 (1965), 550-554. (T. M. Apostol) 32 32 #4107

(with Davenport, H.) Corrigendum: Two problems concerning polynomials. *J. Reine Angew. Math.* 218 (1965), 220. (Editors) 30 #4754

(with Zassenhaus, H.) A refinement of two theorems of Kronecker. *Michigan Math. J.* 12 (1965), 81-85. (R. Ayoub) 31 #158

(with Birch, B. J.; Chowla, S.; Hall, Marshall, Jr.) On the difference $x^3 - y^2$. *Norske Vid. Selsk. Forh. (Trondheim)* 38 (1965), 65-69. (D. J. Lewis) 32 #4079

On the composite Lehmer numbers with prime indices. I. *Prace Mat.* 9 (1965), 95-103. (L. Carlitz) 30 #4721

Corrigendum to the paper: "On a theorem of Bauer and some of its applications". *Acta Arith.* 12 (1966/67), 425. (Editors) 35 #1570

(with Davenport, H.) A note on certain arithmetical constants. *Illinois J. Math.* 10 (1966), 181-185. (W. Schwarz) 32 #5632

(with Bergman, S.; Duda, R.; Knaster, B.; Mycielski, Jan) Kazimierz Zarankiewicz. (Polish) *Wiadom. Mat.* (2) 9, 175-185 (1966/67). (Editors) 35 #10

On different branches of the theory of numbers. (Polish) *Wiadom. Mat.* (2) 9, 187-197 (1966/67), J. Kubilius) 37 #2666

Reducibility of polynomials and covering systems of congruences. *Acta Arith.* 13 (1967/68), 91-101. (L. Carlitz) 36 #2596

On two theorems of Gelfond and some of their applications. *Acta Arith.* 13 (1967/68), 177-236. (W. W. Adams) 36 #5086

(with Wang Yuan) Corrigendum to: "A note on some properties of the functions $\phi(n)$, $\sigma(n)$ and $\theta(n)$". *Ann. Polon. Math.* 19 (1967), 115. (W. J. LeVeque) 35 #142

Reducibility of polynomials of the form $f(x) - g(y)$. *Colloq. Math.* 18 (1967), 213-218. (D. J. Lewis) 36 #3755

(with Davenport, H.) Diophantine approximation and sums of roots of unity. *Math. Ann.* 169 (1967), 118-135. (K. Mahler) 34 #5751

On primitive prime factors of Lehmer numbers. III. *Acta Arith.* 15 (1968), 49-70. (L. Carlitz) 38 #1067

Remarque sur le travail précédent de T. Nagell. *Acta Arith.* 15 (1968/69), 245-246. (D. J. Lewis) 40 #123

On sums of four cubes of polynomials. *J. London Math. Soc.* 43 (1968), 143-145. (D. A. Klarner) 36 #6388

(with Postnikova, L. P.) Primitive divisors of the expression $a^n - b^n$ in algebraic number fields. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 171-177. (B. Gordon) 36 #6378

(with Gružewski, A.) Sur les itérations d'une fonction arithmétique. *Prace Mat.* 11 (1968), 279-282. (S. L. Segal) 37 #147

Corrigendum to the papers "On two theorems of Gelfond and some of their applications" and "On primitive prime factors of Lehmer numbers. III". *Acta Arith.* 16 (1969/70), 101. (Editors) 40 #109

Reducibility of lacunary polynomials. I. *Acta Arith.* 16 (1969/70), 123-159. (W. Ljunggren) 40 #5583(E)

Reducibility of lacunary polynomials. II. *Acta Arith.* 16 (1969/70), 371-392. (W. Ljunggren) 42 #233

(with Narkiewicz, W.) Ein einfacher Beweis des Dedekindschen Differentensatzes. *Colloq. Math.* 20 (1969), 65-66. (G. Whaples) 39 #1425

An improvement of Runge's theorem on Diophantine equations. (Latin summary) *Comment. Pontificia Acad. Sci.* 2 (1969), *no.* 20, 1-9. (D. J. Lewis) 43 #1922

A remark on a paper of Mordell. *J. London Math. Soc.* (2) 1 (1969), 765-766. (J. D. Swift) 40 #2603

A refinement of a theorem of Gerst on power residues. *Acta Arith.* 17 (1970), 161-168. (I. Niven) 44 #1644

(See also Davenport, H., 44 #2619)

(with Wójcik, J.) A note on the paper "Reducibility of lacunary polynomials. I.". *Acta Arith.* 19 (1971), 195-201. (W. Ljunggren) 44 #6653

Schiop, Alexandru I.

(with Gaşpar, Toma) Nombre de types de multipôles $(1 - k)$ d'après le groupe hyper-octaédrique. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1431-1436. (Hanna Neumann) 34 #7290

Number of types of $(1 - k)$ contact multipoles with respect to alternating groups. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 451-456. (Hanna Neumann) 34 #4059

(with Cruceanu, Şt.) Extremal problems for convex functionals over a sphere in Hilbert space. Observations on a problem of Bellman. (Romanian. French and Russian summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 15 (1966), *no.* 2, 41-44. (Authors' summary) 36 #4349

A relation between a basic variational problem for quadratic functionals and a problem of minimun deviation with bounded resources. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1193-1195. (G. M. Ewing) 36 #3194

(with Cruceanu, Şt.) An iterative method of solution of the operator equation $x = BF(x)$. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1563-1566. (M. L. Juncosa) 39 #4718

Sur les équations fonctionnelles non linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A988-A990. (A. Pazy) 38 #578

(with Cruceanu, Şt.) The relation between pseudo-resolvent and a problem of optimum. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 159-160. (J. P. Williams) 37 #3330

Applications of the theory of monotone operators. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1353-1358. (Author's summary) 42 #5133

Stabilité aux perturbations dans les problèmes variationnels non linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A295-A296. (Author's summary) 42 #3644

Schipp, Ferenc

Construction of a continuous function whose Walsh series diverges at a prescribed point. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 103-108. (J. J. Price) 34 #6430

Über die Grössenordnung der Partialsummen der Entwicklung integrierbarer Funktionen nach W-Systemen. *Acta Sci. Math. (Szeged)* 28 (1967), 123-134. (R. A. Askey) 35 #4667

Über W-Fourierreihen mit nichtengativen Partialsummen. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 113-116. (K. Tandori) 39 #3225

Bemerkung zur Divergenz der Walsh-Fourierreihen. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 11 (1968), 53-58. (Yung-ming Chen) 39 #3226

Bemerkung zur starken Summation der Walsh-Fourierreihe. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 263-274. (R. Liedl) 41 #715

Über die starke Summation von Walsh-Fourierreihen. *Acta Sci. Math. (Szeged)* 30 (1969), 77-87. (G. Sunouchi) 39 #3227

Über Walsh-Fourierreihen mit nichtnegativen Partialsummen. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 43-48. (K. Tandori) 41 #713

Über die Divergenz der Walsh-Fourierreihen. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 49-62. (K. Tandori) 41 #714

(with Pál, L. G.) On Haar and Schauder series) *Acta Sci. Math. (Szeged)* 31 (1970), 53-58. (R. Liedl) 41 #7368

On the strong approximation of Walsh-Fourier series. (Hungarian. English summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 19 (1970), 101-111. (K. Tandori) 40 #6161

Schipper, J. F.

Some nuances in the matrix analysis of dynamical systems with constraints imposed. *SIAM Rev.* 12 (1970), 280-283. (W. M. Whyburn) 41 #2104

Schirmer, Helga

A Brouwer type coincidence theorem. *Canad. Math. Bull.* 9 (1966), 443-446. (Haskell Cohen) 34 #2002

Coincidence producing maps onto trees. *Canad. Math. Bull.* 10 (1967), 417-423. (Haskell Cohen) 37 #5856

On fixed point sets of homeomorphisms of the n-ball. *Israel J. Math.* 7 (1969), 46-50. (S. T. Lin) 39 #7590

Properties of the fixed point set of contractive multifunctions. *Canad. Math. Bull.* 13 (1970), 169-173. (B. Margolis) 42 #1097

A Kakutani type coincidence theorem. *Fund. Math.* 69 (1970), 219-226. (S. K. Kaul) 43 #6907

Coincidences and fixed points of multifunctions into trees. *Pacific J. Math.* 34 (1970), 759-767. L. E. Ward, Jr.) 42 #2465

Biconnected multifunctions of trees which have an end point as fixed point or coincidence. *Canad. J. Math.* 23 (1971), 461-467. (R. E. Smithson) 43 #6918

Properties of fixed point sets on dendrites. *Pacific J. Math.* 36 (1971), 795-810. (L. E. Ward, Jr.) 43 #8073

Schirokow, A. P. See Širokov, A. P.

Schirokow, P. A. See Širokov, P. A.

Schirotzek, Winfried

Verallgemeinerung eines Satzes von Schauder. *Wiss. Z. Techn. Univ. Dresden* 15 (1966), 1239-1243. (J. Dieudonné) 36 #4384

Über die Inverse der Komposition stetiger linearer Abbildungen. *Bull. Math. Soc. Sci. Math. R. S. Roumaine (N.S.)* 12(60) (1968), *no.* 4, 177-183 (1969). (J. D. Pryce) 41 #788

Transformationseigenschaften der Komposition stetiger linearer Abbildungen. *Wiss. Z. Techn. Univ. Dresden* 17 (1968), 1-5. (B. Fishel) 40 #1752

Einige Bemerkungen zur Erweiterung stetiger linearer Abbildungen. *Math. Nachr.* 43 (1970), 369-376. (K. Floret) 41 #4193

Schkolnick, Mario

(with Harrison, Michael A.) A grammatical characterization of one-way nondeterministic stack languages. *J. Assoc. Comput. Mach.* 18 (1971), 148-172. (I. M. Havel) 44 #8081

Schlaepfer, F. E.

Die Phasenfunktion einer Tschebyscheff'schen Polynomapproximation. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach, 1965), pp. 48-54. Birkhäuser, Basel,* 1967. (Bruno Brosowski) 37 #1851

Schlaifer, Robert

* (with Raiffa, Howard) Applied statistical decision theory. *The M.I.T. Press, Cambridge, Mass.-London,* 1968. xxvii + 365 *pp. (1 foldout)* (Editors) 37 #2344

Schlarb, Th.

* Matrizen 2. Ordnung (Versuch einer Theorie). Band I. Matrizenalgebra. *Verlag Verein der Freunde und Förderer mathematischer Grundlageforschung, Marburg,* 1964. xiii + 360 *pp.* (J. L. Brenner) 32 #1201a

Matrizen 2. Ordnung (Versuch einer Theorie). Band II. Matrizenfunktionentheorie. *Verlag Verein der Freunde und Förderer mathematischer Grundlageforschung, Marburg,* 1964. iv + 350 *pp.* (J. L. Brenner) 32 #1201b

Schlegel, P.

The explicit inverse of a tridiagonal matrix. *Math. Comp.* 24 (1970), 665. (Author's summary) 42 #8674

Schlegel, Richard

The problem of infinite matter in steady-state cosmology. *Philos. Sci.* 32 (1965), 21-31. (R. R. D. Kemp) 31 #6665

Schleiermacher, Adolf

Doppelverhältnisse auf einer Geraden in einer Moufangebene (Char. ≠ 2). *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 482-496. (T. A. Springer) 31 #2657

(with Strambach, Karl) Über die Gruppe der Projektivitäten in nichtgeschlossenen Ebenen. *Arch. Math. (Basel)* 18 (1967), 299-307. (T. G. Room) 37 #820

Bemerkungen zum Fundamentalsatz der projektiven Geometrie. *Math. Z.* 99 (1967), 299-304. (R. Moufang) 36 #781

(with Strambach, Karl) Freie Erweiterungen in der affinen Geometrie und in der Geometrie der Kreise. I. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 22-37. (E. Glock) 41 #6050

(with Strambach, Karl) Freie Erweiterungen in der affinen Geometrie und in der Geometrie der Kreise. II. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 209-226. (E. Glock) 44 #910

Reguläre Normalteiler in der Gruppe der Projektivitäten bei projektiven und affinen Ebenen. *Math. Z.* 114 (1970), 313-320. (G. Pickert) 41 #7526

Über projektive Ebenen, in denen jede Projektivität mit sechs Fixpunkten die Identität ist. *Math. Z.* 123 (1971), 325-339. (G. Pickert) 44 #4632

Schleifer, Arthur, Jr.

* (with Bracken, Jerome) Tables for normal sampling with unknown variance. The Student distribution and economically optimal sampling plans. *Division of Research, Graduate School of Business Administration, Harvard University, Boston, Mass.,* 1964. xii + 193 *pp.* (H. L. Harter) 29 #682

Schleiff, Martin

Über eine lineare Integrodifferentialgleichung mit Zusatzkern. *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg* M 1 (1968/69), 145-154. (H. Baumgärtel) 39 #3271

Untersuchung einer linearen singulären Integrodifferentialgleichung der Tragflügeltheorie. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 17 (1968), 981-1000. (R. C. MacCamy) 40 #3243

Über Näherungsverfahren zur Lösung einer singulären linearen Integraodifferentialgleichung. (English and Russian summaries) *Z. Angew. Math. Mech.* 48 (1968), 477-486. (P. M. Anselone) 39 #3728

Über eine singuläre Integralgleichung mit logarithmischem Zusatzkern. *Math. Nachr.* 42 (1969), 79-88. (R. C. MacCamy) 41 #762

Singuläre Integraloperatoren in Hilbert-Räumen mit Gewichtsfunktion. *Math. Nachr.* 42 (1969), 145-155. (H. O. Cordes) 41 #7496

Über die Entwickelbarkeit von Funktionen in gewisse trigonometrische Reihen mit variablen Koeffizienten. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 18 (1969), 291-300. (R. P. Srivastav) 42 #2241

Zur numerischen Lösung einer linearen Integrodifferentialgleichung mit der Kollokationsmethode. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 375-379. (L. B. Rall) 42 #7099

(with Schubert, Hans) Über zwei Randwertprobleme des inhomogenen Systems der Cauchy-Riemannschen Differentialgleichungen mit einer Anwendung auf ein Problem der stationären schallnahen Strömung. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 621-630. (H. Widom) 40 #6038

Über einige nichtlineare Verallgemeinerungen des Randwertproblems von Poincaré. I, II. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 19 (1970), *Heft* 4, 87-93; *ibid.* 19 (1970), *Heft* 4, 95-100. (S. Gogonea) 44 #5502

Die endliche Hilberttransformation einiger spezieller Funktionen. *Z. Angew. Math. Mech.* 50 (1970), 575-576. (P. Anandani) 42 #2260

Schleinkofer, Gerhard

* Die erste Randwertaufgabe für quasilineare parabolische Differentialgleichungen bei unstetigen Randwerten. Zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften von der Fakultät für Naturwissenschaften I der Universität Karlsruhe genehmigte Dissertation. *Universität Karlsruhe, Karlsruhe,* 1969. ii + 24 *pp.* (K. Hawlitschek) 41 #5781

Die erste Randwertaufgabe und das Cauchy-Problem für parabolische Differentialgleichungen mit unstetigen Anfangswerten. *Math. Z.* 111 (1969), 87-97. (K. Hawlitschek) 39 #7288

Die erste Randwertaufgabe für quasilineare parabolische Differentialgleichungen bei unstetigen Randwerten. *Math. Z.* 113 (1970), 33-48. (K. Hawlitschek) 41 #5782

Das Cauchy-Problem bei quasilinearen parabolischen Differentialgleichungen mit unstetigen Anfangswerten. *Math. Ann.* 191 (1971), 337-346. (W. Watzlawek) 44 #4373

Schlesinger, James W.

(with Bousfield, A. K.; Curtis, E. B.; Kan, D. M.; Quillen, D. G.; Rector, D. L.) The mod-*p* lower central series and the Adams spectral sequence. *Topology* 5 (1966), 331-342. (A. Dold) 33 #8002

The semi-simplicial free Lie ring. *Trans. Amer. Math. Soc.* 122 (1966), 436-442. (A. Dold) 33 #8001

Schlesinger, Ludwig

* Handbuch der Theorie der linearen Differentialgleichungen. In zwei Bänden. Band I. Reprint. Bibliotheca Mathematica Teubneriana, Band 30. *Johnson Reprint Corp., New York-London,* 1968. *Band I:* xx + 486 + i *pp.* (Editors) 40 #5408a

* Handbuch der Theorie der linearen Differentialgleichungen. In zwei Bänden. Band II: Theil 1, (Schluss-)Theil 2. Reprint. Bibliotheca Mathematica Teubneriana, Band 31. *Johnson Reprint Corp., New York-London,* 1968. *Band II, Theil* 1: xviii + 532 *pp.*; *Theil* 2: xiii + 446 *pp.* (Editors) 40 #5408b

Schlesinger, S. P.

(with Granatstein, V. L.) Electromagnetic waves in parameter space for finite magnetoplasmas. *J. Appl. Phys.* 35 (1964), 2846-2855. (G. L. Lamb, Jr.) 31 #5457

Schlessinger, Michael

(with Zierler, Neal) Boolean embeddings of orthomodular sets and quantum logic. *Duke Math. J.* 32 (1965), 251-262. (H. Wakita) 30 #5704

(with Berkovits, S.; Zierler, N.) On mappings for modular arithmetic. II. *J. Assoc. Comput. Mach.* 12 (1965), 545-546. (R. W. Hamming) 32 #1155

(with Lichtenbaum, S.) The cotangent complex of a morphism. *Trans. Amer. Math. Soc.* 128 (1967), 41-70. (D. W. Knudsen) 35 #237

Functors of Artin rings. *Trans. Amer. Math. Soc.* 130 (1968), 208-222. (M. Miyanishi) 36 #184

Schlette, Annemarie

(with Baer, Reinhold) Berandungen gruppentheoretischer Eigenschaften. *Fund. Math.* 65 (1969), 1-22. (F. Haimo) 40 #4348

Artinian, almost abelian groups and their groups of automorphisms. *Pacific J. Math.* 29 (1969), 403-425. (R. Göbel) 40 #2

Schley, Ulrich

* (with Hahn, Dietrich; Metzdorf, Joachim; Verch, Joachim) Seven-place tables of the Planck function for the visible spectrum (Text in English and German) *Friedr. Vieweg & Sohn, Braunschweig; Academic Press, New York-London,* 1964. xxi + 135 *pp.* (John Todd) 29 #5514

Schlichting, Hermann

Aerodynamische Probleme des Höchstauftriebes. (English and French summaries) *Z. Flugwiss.* 13 (1965), 1-14. (Author's summary) 30 #2777

* (with Truckenbrodt, E.) Aerodynamik des Flugzeuges. Band I: Grunglagen aus der Strömungsmechanik. Aerodynamik des Tragflügels (Teil I). Zweite neubearbeitete Auflage. *Springer-Verlag, Berlin New York,* 1967. xvi + 479 *pp.* (Editors) 40 #2269a

* (with Truckenbrodt, E.) Aerodynamik des Flugzeuges. Band II: Aerodynamik des Tragflügels (Teil II), des Rumpfes, der Flügel-Rumpf-Anordnung und der Leitwerke. Zweite neubearbeitete Auflage. *Springer-Verlag, Berlin-New York,* 1969. xvi + 514 *pp.* (Editors) 40 #2269b

Schlieder, Siegfried

Some remarks about the localization of states in a quantum field theory. *Comm. Math. Phys.* 1 (1965), 265-280. (A. Lewis Licht) 33 #2213

Einige Bemerkungen über Projektionsoperatoren (Konsequenzen eines Theorems von Borchers. *Comm. Math. Phys.* 13 (1969), 216-225. (H. Araki) 40 #3849

Schlissel, Arthur

The asymptotic behavior with respect to time of the generalized solution of a first order quasi-linear equation with particular initial values. *J. Math. Anal. Appl.* 9 (1964), 356-359. (L. Gårding) 29 #6145

Schlögl, Friedrich

(with Stahl, A.; Bausch, R.) Statistische Bewegungsgesetze abgeschlossener Systeme und Entropie-Vermehrung. (English summary) *Z. Physik* 187 (1965), 290-304. (P. T. Landsberg) 33 #3703

Zur statistischen Theorie der Entropieproduktion in nicht abgeschlossenen Systemen. (English summary) *Z. Physik* 191 (1966), 81-90. (Author's summary) 34 #3950

Schlomiuk, Dana I.

An elementary theory of the category of topological spaces. *Trans. Amer. Math. Soc.* 149 (1970), 259-278. (R. Fritsch) 41 #3559

Schlomiuk, Norbert H.

Principal cofibrations in the category of simplicial groups. *Trans. Amer. Math. Soc.* 146 (1969), 151-165. (J. P. May) 41 #2686

[illegible], J. A.

(with Schild, Alfred) Fokker action principle for particles with charge, spin, and magnetic moment. *J. Mathematical Phys.* 6 (1965), 1299-1306. (Gerald Rosen) 31 #5649

Schlueter, Robert A.

(with Levis, Alexander H.; Athans, Michael) On the behavior of optimal linear sampled-data regulators. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp. 659-669. Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8102

Schlüter, Arnulf

(with Lortz, D.; Busse, F.) On the stability of steady finite amplitude convection. *J. Fluid Mech.* 23 (1965), 129-144. (L. A. Segel) 32 #710

Schmaedeke, Wayne W.

(with Russell, D. L.) Time optimal control with amplitude and rate limited controls. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 373-395 (1965). (P. L. Falb) 36 #4414

Optimal control theory for nonlinear vector differential equations containing measures. *J. Soc. Indust. Appl. Math. Ser. A Control* 3 (1965), 231-280. (L. Cesari) 32 #7288

The existence theory of optimal control systems. *Advances in Control Systems, Vol. 3, pp. 111-149. Academic Press, New York,* 1966. (H. Halkin) 35 #4788

Mathematical theory of optimal control for semilinear hyperbolic systems in two independent variables. *SIAM J. Control* 5 (1967), 138-152. (H. O. Fattorini) 35 #1381

Approximate solutions for Volterra integral equations of the first kind. *J. Math. Anal. Appl.* [illegible] (P. M. Anselone) 38 #502

(with Sell, George R.) The Gronwall inequality for modified Stieltjes integrals. *Proc. Amer. Math. Soc.* 19 (1968), 1217-1222. (S. J. Taylor) 37 #6422

A new approach to the solution of unstable problems using variational techniques. *J. Math. Anal. Appl.* 25 (1969), 272-275. (J. S. Muldowney) 38 #6419

Schmeidler, David

Competitive equilibria in markets with a continuum of traders and incomplete preferences. *Econometrica* 37 (1969), 578-585. (Author's summary) 42 #4179

The nucleolus of a characteristic function game. *SIAM J. Appl. Math.* 17 (1969), 1163-1170. (F. Eicker) 41 #5058

Fatou's lemma in several dimensions. *Proc. Amer. Math. Soc.* 24 (1970), 300-306. (W. A. J. Luxemburg) 40 #1568

Schmeidler, Felix

Die Beurteilung von Copernicus im Lauf der Jahrhunderte. *Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte (Festschrift für Kurt Vogel), pp. 123-129. Forschungsinst. Deutsch. Museums Gesch. Naturwissensch. Tech., Munich,* 1968. (V. E. Thoren) 38 #5557

Schmeidler, Werner

* (with Rothe, R.) Höhere Mathematik für Mathematiker, Physiker, Ingenieure. Teil VII: Räumliche und ebene Potentialfunktionen. Konforme Abbildung. Integralgleichungen. Variationsrechnung. Zweite, verbesserte Auflage. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1960. 218 pp. (Editors) 29 #1116

* Linear operators in Hilbert space. Translation by Jay Strum. Revised and edited by A. Shenitzer and D. Solitar. *Academic Press, New York-London,* [illegible] pp. (Editors) [illegible]

Zur mathematischen Theorie der Wärmeleitung und Strömungslehre. *J. Reine Angew. Math.* 242 (1970), 115-133. (G. Paria) 41 #6465

Schmeißer, Gerhard

Erweiterung eines Satzes von J. Korevaar. *Math. Z.* 98 (1967), 185-191. (C. Tanaka) [illegible]

Bemerkungen zu einer Vermutung von Ilieff. *Math. Z.* 111 (1969), 121-125. (M. Marden) 41 [illegible]

Schmeltzer, Robert A.

(with Lewin, Myrna) A new method for treating supersonic flow past nearly plane wings. *J. Fluid Mech.* 17 (1963), 305-313. (A. E. Heins) 31 #992

Schmerkotte, Hans

Entscheidbare Behauptungen, konsistente Schätzer- und Testfolgen. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 139-145. (J. R. Blum) 34 #2130

Schmets, Jean

Semi-ordre linéaire dans les espaces linéaires semi-normes. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 17-44. (H. Nakano) 29 #454

(with Garnir, H. G.) Théorie de l'intégration par rapport à une mesure dans un espace linéaire à semi-normes. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 381-410. (R. D. Ryan) 31 #1351

Sur une généralisation d'un théorème de Lyapounov. (English [illegible] Raimi) 34 #296

(with De Wilde, M.) Module des opérateurs prénucléaires dans les espaces de fonctions. (English summary) *Bull. Soc. Roy. Sci. Liège* 35 (1966), 558-565. (A. Pietsch) 35 #2177

(with Garnir, H. G.; De Wilde, M.) Constructive proof of the existence of multiplicative functionals in commutative separable Banach algebras. *Bull. Amer. Math. Soc.* 73 (1967), 564-566. (P. Civin) 35 #2145

* (with Garnir, H. G.; De Wilde, M.) Analyse fonctionnelle. Théorie constructive des espaces linéaires à semi-normes. Tome I: Théorie générale. Lehrbücher und Monographien aus dem Gebiete der Exakten Wissenschaften, Mathematische Reihe, Band 36. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. x + 562 pp. (W. A. J. Luxemburg) 40 #6222

Quelques théorèmes sur les mesures à valeurs vectorielles. (English summary) *Bull. Soc. Roy. Sci. Liège* 37 (1968), 320-328. (P. Civin) 38 #6026

(with De Wilde, M.) Sur la structure de certaines distributions. (English summary) *Bull. Soc. Roy. Sci. Liège* 39 (1970), 232-239. (C. W. Swartz) 42 #8272

Schmetterer, Leopold

Some remarks on the power of a most powerful test. *Sankhyā Ser. A* 25 (1963), 207-210. (M. Katz) 30 #1584

(with Cigler, J.) Über die Summe Markowscher Ketten auf endlichen Gruppen. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp. 45-53. Publ. House Czech. Acad. Sci., Prague,* 1964. (K. Krickeberg) 29 #2860

Zur Theorie der Stichproben aus endlichen Gesamtheiten. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1964, no. 4, 117-120. (J. Wolfowitz) 32 #1818

Some theorems on the Fourier analysis of positive definite functions. *Proc. Amer. Math. Soc.* 16 (1965), 1141-1147. (A. Peyerimhoff) 34 #562

On the asymptotic efficiency of estimates. *Research Papers in Statistics (Festschrift J. Neyman), pp. 301-317. John Wiley, London,* 1966. (J. Wolfowitz) 35 #1125

* Einführung in die mathematische Statistik. Zweite, verbesserte und wesentlich erweiterte Auflage. *Springer-Verlag, Vienna-New York,* 1966. ix + 597 pp. (Editors) 37 #7018

Sums of Markov-chains on finite semigroups. *Symposium on Probability Methods in Analysis (Loutraki, 1966), pp. 287-290. Springer, Berlin,* 1967. (E. S. Boylan) 36 #2229

On superefficiency. *Symposium on Probability Methods in Analysis (Loutraki, 1966), pp. 291-295. Springer, Berlin,* 1967. (J. R. Blum) 38 #5322

Über die Summe Markov'scher Ketten auf Halbgruppen. *Monatsh. Math.* 71 (1967), 223-230. (K. Krickeberg) 35 #7402

Über Markovsche Ketten auf einfachen endlichen Halbgruppen. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1377-1386. (J. E. Cigler) 38 #6664

Über ein Iterationsverfahren. *Arch. Math. (Basel)* 19 (1968), 195-200. (D. R. Arterburn) 37 #3408

Multidimensional stochastic approximation. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio, 1968), pp. 443-460. Academic Press, New York,* 1969. (V. Fabian) 41 #2844

(with Hazod, W.) Über Poissongesetze auf lokalkompakten Gruppen und verwandte Fragen. *Studia Sci. Math. Hungar.* 5 (1970), 63-74. (H. Heyer) 44 #3364

Schmid, C.

(with Risken, H.) The Fokker-Planck equation for quantum noise of the *N*-level system. *Z. Physik* 189 (1966), 365-384. (W. Franzen) 33 #5331

Schmid, Edwardine Michele

Some theorems on value distributions of meromorphic functions. *Math. Z.* 120 (1971), 61-92. (N. Toda) 44 #1808

Schmid, Hermann Ludwig

(See Mathematisches Wörterbuch, 29 #4658)

Schmid, Josef

Zum Begriff des linearen Zusammenhanges. *Monatsh. Math.* 68 (1964), 326-367. (N. J. Hicks) 30 #1471

Schmid, K.

Zurückführung eines Sortenproblems auf das dreidimensionale Transportproblem. *Unternehmensforschung* 10 (1966), 32-41. 32 #5381

Schmid, Larry P.

(with Shanks, Daniel) Variations on a theorem of Landau. I. *Math. Comp.* 20 (1966), 551-569. (D. H. Lehmer) 35 #1564

Schmid, Peter

Subnormale Einbettung von Paaren von Gruppen. *Math. Z.* 118 (1970), 34-39. (D. J. S. Robinson) 43 #336

Schmid, Roberto M.

(with Roveda, C.) An upper bound on the dimension of minimal realizations of linear time-invariant dynamical systems. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga.,* 1970*), pp.* 509-514. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8065

(with Roveda, Claudio A.) Upper bound on the dimension of minimal realizations of linear time-invariant dynamical systems. *IEEE Trans. Automatic Control* AC-15 (1970), 639-644. (Editors) 44 #5134

Schmid, Wilfried

Homogeneous complex manifolds and representations of semisimple Lie groups. *Proc. Nat. Acad. Sci. U.S.A.* 59 (1968), 56-59. (N. R. Wallach) 37 #1520

(with Griffiths, Phillip) Locally homogeneous complex manifolds. *Acta Math.* 123 (1969), 253-302. (S. Kobayashi) 41 #4587

On the realization of the discrete series of a semisimple Lie group. Complex Analysis (Proc. Conf., Rice Univ., Houston, Tex., 1969). *Rice Univ. Studies* 56 (1970), *no.* 2, 99-108 (1971). (R. P. Langlands) 43 #3401

Die Randwerte holomorpher Funktionen auf hermitesch symmetrischen Räumen. *Invent. Math.* 9 (1969/70), 61-80. (A. Korányi) 41 #3806

On a conjecture of Langlands. *Ann. of Math.* (2) 93 (1971), 1-42. (P. A. Griffiths) 44 #4149

Schmidle, Harald

(with Nachtmann, Otto; Sexl, Roman U.) On the structure of field theories of gravitation. *Acta Phys. Austriaca* 29 (1969), 289-299. (C. W. Kilmister) 40 #1124

(with Nachtmann, Otto; Sexl, Roman U.) On the most general linear theory of gravitation. *Comm. Math. Phys.* 13 (1969), 254-256. (W. B. Bonnor) 40 #6908

Schmidlin, Dean J.

(with Lupo, Frank J.) The determination of port-tree structures of transformerless $(n+1)$-terminal n-port networks from their short-circuit admittance parameter matrices. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 748-756. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8165

Schmidov, F. I. See Šmidov, F. I.

Schmidt, Adam

Bemerkung zum Beweis des Entwicklungssatzes für Sturmsche Eigenwertprobleme der Ordnung n. *Z. Angew. Math. Mech.* 47 (1967), 548. (J. Hersch) 38 #3500

Störungsrechnung für lineare gewöhnliche Differentialoperatoren. I. (English and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 397-402. (D. Schmidt) 43 #647

Schmidt, Arnold. See Schmidt, H. Arnold.

Schmidt, Asmus L.

Approximation theorems of Borel and Fujiwara. *Math. Scand.* 14 (1964), 35-38. (K. Mahler) 29 #5785

Farey triangles and Farey quadrangles in the complex plane. *Math. Scand.* 21 (1967), 241-295 (1969). (I. Niven) 39 #6831

Farey simplices in the space of quaternions. *Math. Scand.* 24 (1969), 31-65. (L. C. Eggan) 40 #7206

Schmidt, B.

(with Hildebrandt, S.) Zur Konvergenz von Operatorprodukten im Hilbertraum. *Math. Z.* 105 (1968), 62-71. (A. McIntosh) 37 #4578

Zu Fragen der Anwendbarkeit der Z-Transformation zur Berechnung von stetigen Vorgängen und zur Analyse allgemeiner, insbesondere nichtlinearer Netzwerke. I. *WZE Wiss. Z. Elektrotech.* 14 (1969/70), 222-248. (G. Doetsch) 43 #4501

Zu Fragen der Anwendbarkeit der Z-Transformation zur Berechnung von stetigen Vorgängen und zur Analyse allgemeiner, insbesondere nichtlinearer Netzwerke. II. *WZE Wiss. Z. Elektrotech.* 15 (1970), 65-102. (G. Doetsch) 43 #4502

Schmidt, B. G.

Maxwell-equations in the geometrodynamical null-case. *Tensor (N.S.)* 16 (1965), 169-186. (A. Peres) 31 #1092

Einstein-Maxwell equations in the geometrodynamical null-case. *Tensor (N.S.)* 17 (1966), 159-164. (G. L. Clark) 33 #7094

Isometry groups with surface-orthogonal trajectories. *Z. Naturforsch.* 22a (1967), 1351-1355. (V. Hlavatý) 36 #3297

Discrete isotropies in a class of cosmological models. *Comm. Math. Phys.* 15 (1969), 329-336. (Lincoln E. Bragg) 41 #3075

(with MacCallum, M. A. H.; Stewart, J. M.) Anisotropic stresses in homogeneous cosmologies. *Comm. Math. Phys.* 17 (1970), 343-347. (Lincoln E. Bragg) 43 #1589

Spektrum numerischer Wertebereich und ihre Maximumprinzipien in Banachalgebren. (English summary) *Manuscripta Math.* 2 (1970), 191-202. (R. G. Douglas) 41 #5971

Schmidt, Diane

(with Rozycki, Eugene P.) A proof of the Moore metrization theorem. *Colloq. Math.* 22 (1970), 59-60. (V. J. Mancuso) 43 #1117

Schmidt, Dieter

(with Schäfke, Friedrich W.) Ein Verfahren zur Berechnung des charakteristischen Exponenten der Mathieuschen Differentialgleichung. III. *Numer. Math.* 8 (1966), 68-71. (S. C. van Veen) 34 #2157

(See also Schäfke, F. W., 41 #5968)

(with Mennicken, R.) Untersuchungen über lineare Differentialgleichungen mit sinusförmigen Koeffizienten. *Arch. Rational Mech. Anal.* 31 (1968/69), 304-321. (D. V. V. Wend) 38 #3490

Zur Existenz von Minimallösungen zweifach-unendlicher dreigliedriger linearer Rekursionen vom Poincaré-Perronschen Typ. *Arch. Rational Mech. Anal.* 31 (1968/69), 322-330. (H. Hochstadt) 38 #2464

Schmidt, E. J. P. Georg

Spectral and scattering theory for Maxwell's equations in an exterior domain. *Arch. Rational Mech. Anal.* 28 (1967/68), 284-322. (Teruo Ikebe) 36 #5532

* (with Alsholm, P.) Spectral and scattering theory for Schrödinger operators. Various Publications Series, No. 7. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. 80 *pp.* (N. Shenk) 41 #5795

(with Alsholm, P.) Spectral and scattering theory for Schrödinger operators. *Arch. Rational Mech. Anal.* 40 (1970/71), 281-311. (Gerald Rosen) 43 #5352

On the representation of the potential scattering operator in quantum mechanics. *J. Differential Equations* 7 (1970), 389-394. (C. Bardos) 41 #666

Schmidt, Eckard

Stetigkeitsaussagen bei der Tschebyscheff-Approximation mit Exponentialsummen. *Math. Z.* 113 (1970), 159-170. (H. Werner) 41 #5847

Zur Kompaktheit bei Exponentialsummen. *J. Approximation Theory* 3 (1970), 445-454. (A. Meir) 42 #6471

Stetigkeitsaussagen bei der Tschebyscheff-Approximation mit positiven Exponentialsummen. *J. Approximation Theory* 4 (1971), 13-20. (H. Werner) 42 #8140

Schmidt, Eckart

(with Felsch, Volkmar) Über Perioden in den Koeffizienten der Kreisteilungspolynome $F_{np}(x)$. *Math. Z.* 106 (1968), 267-272. (W. Ledermann) 38 #1080

* (with Bachmann, Friedrich) n-Ecke. B.I-Hochschultaschenbücher, 471/471a*. *Bibliographisches Institut, Mannheim-Vienna-Zurich,* 1970. 199 *pp.* (E. W. Ellers) 44 #4618

Schmidt, Eligius T.

* (with Fuchs, L.) Proceedings of the Colloquium on Abelian Groups. Tihany (Hungary), September 1963. *Akadémiai Kiadó (Publishing House of the Hungarian Academy of Sciences), Budapest,* 1964. 162 *pp.* (Editors) 29 #3524

Universale Algebren mit gegebenen Automorphismengruppen und Kongruenzverbänden. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 37-45. (W. Benz) 29 #3411

Remark on a paper of M. F. Janowitz. (Russian summary) *Acta Math. Acad. Sci. Hungar.* 16 (1965), 435. (G. Grätzer) 32 #4049

Über endliche Verbände, die in einen endlichen Zerlegungsverband einbettbar sind. *Studia Sci. Math. Hungar.* 1 (1966), 427-429. (G. Grätzer) 34 #5714

On the definition of homomorphism kernels of lattices. *Math. Nachr.* 33 (1967), 25-30. (P. Crawley) 34 #5715

Zur Charakterisierung der Kongruenzverbände der Verbände. (Loose English and Russian summaries) *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 3-20. (R. P. Dilworth) 39 #2675

* Kongruenzrelationen algebraischer Strukturen. Mathematische Forschungsberichte, XXV. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 108 *pp.* (G. Grätzer) 41 #136; erratum, 43, p. 1696.

(with Csákány, B.) Translations of regular algebras. *Acta Sci. Math. (Szeged)* 31 (1970), 157-160. (H. A. Thurston) 42 #5882

Über reguläre Mannigfaltigkeiten. *Acta Sci. Math. (Szeged)* 31 (1970), 197-201. (J. Froemke) 43 #7394

Unabhängigkeitsrelationen in Halbverbänden. *Period. Math. Hungar.* 1 (1971), *no.* 1, 45-53. (G. Szász) 44 #5259

Schmidt, Erhard

(See Rohrbach, Hans, 37 #2570)

Schmidt, F.

Möglichkeiten der Darstellung ebener Grundwasserprobleme mit freier Oberfläche mit Hilfe der analytischen Funktion $\zeta_1 = \zeta_2 + 1/\zeta_2$. *Österreich. Ing.-Arch.* 18 (1964), 293-311. (M. D. Friedman) 30 #2775

Schmidt, Franz

Spektraldarstellung und Extrapolation einer Klasse von stationären stochastischen Prozessen. *Math. Nachr.* 47 (1970), 101-119. (S. Csibi) 44 #3383

Schmidt, Georg. See Schmidt, E. J. P. Georg.

Schmidt, Gerd

Die zeitabhängige Lösung für einen Bedienungskanal mit endlich vielen Warteplätzen, Poisson-input und exponentieller Abfertigung. *Z. Angew. Math. Mech.* 44 (1964), T66--68. 32 #3166

Über die in einem einfachen Verlustsystem induzierten stochastischen Prozesse. (English summary) *Unternehmensforschung* 11 (1967), 95-110. (T. Kawata) 35 #5012

Schmidt, Günter

Zur Stabilität der Längs- und Querschwingungen eines längs pulsierend belasteten Stabes. *Math. Nachr.* 27 (1963 64), 341-351. (K. Magnus) 29 #4252

Nonlinear parametric vibrations of sandwich plates. (Polish and Russian summaries) *Proc. Vibration Problems* 6 (1965), 209-228. (Yi-Yuan Yu) 33 #5185

Über die Drehschwingungen von Kurbelwellen. *Math. Ann.* 165 (1966), 152-162. (L. A. MacColl) 33 #3535

Resonanzlösungen nichtlinearer Schwingungsgleichungen. *Nova Acta Leopoldina (N.F.)* 34 (1969), *no.* 187, 8-60. (L. Erbe) 43 #5119

Zur Stabilität der Resonanzlösungen nichtlinearer Schwingungsgleichungen. *Nova Acta Leopoldina (N.F.)* 34 (1969), *no.* 187, 62-68. (L. Erbe) 43 #5120

Schmidt, H. Arnold

* Mathematische Gesetze der Logik. I. Vorlesungen über Aussagenlogik. Die Grundlehren der mathematischen Wissenschaften. Bd. 69. *Springer-Verlag, Berlin,* 1960. xxiv + 555 *pp.* (E. W. Beth (Zbl 88, 246)) 29 #1135

Protologische Untersuchungen. I. Ein allgemeiner Rahmen für naturgemässe Deduktion. *Arch. Math. Logik Grundlagenforsch.* 9 (1966), 70-94. (K. Schütte) 36 #1292

(See also Contributions to mathematical logic (Proceedings of the Logic Colloquium, Hannover, 1966, 38 #3120)

Schmidt, H. J., Jr.

On normal complements of $\mathfrak{F}$-covering subgroups. *Proc. Amer. Math. Soc.* 25 (1970), 457-459. (T. R. Berger) 41 #3605

Schmidt, Helmut U.

Model of an oscillating cosmos which rejuvenates during contraction. *J. Mathematical Phys.* 7 (1966), 494-509. (S. W. Hawking) 32 #7215

Schmidt, Hermann

Über einige diophantische Aufgaben 3. und 4. Grades. *Jber. Deutsch. Math.-Verein.* 67 (1964/65), *Abt.* 1, 2-13. (J. W. S. Cassels) 30 #3061

Elementarer Beweis für eine asymptotische Entwicklung aus dem Gebiet der ζ-Funktion. *Math. Z.* 84 (1964), 271-276. (A. E. Ingham) 29 #3807

(with Kiyek, K.) Auswertung einiger spezieller unendlicher Reihen aus dem Bereich der elliptischen Funktionen. *Arch. Math. (Basel)* 18 (1967), 438-443. (S. K. Chatterjea) 36 #6657

Über das Kettenbruchverfahren von Patz und Arwin zur Darstellung von Zahlen durch positiv definite binäre quadratische Formen. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1966, *Abt. II,* 5-12 (1967). (E. Frank) 35 #6623

Bemerkungen zur elementaren Algebra. I. Restklassenring und Resultante. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1966, *Abt. II,* 167-172 (1967). (W. Gröbner (Zbl 166, 49)) 42 #1823

Nachtrag zu: "Über einige diophantische Gleichungen 3. und 4. Grades". *Jber. Deutsch. Math.-Verein.* 70 (1967), *Heft* 1, *Abt.* 1, 51-52. (J. W. S. Cassels) 36 #107

Zur Ermittlung reeller quadratischer Zahlen aus dem symmetrischen Anteil der Kettenbruchperiode. *Math. Z.* 96 (1967), 58-61. (E. Frank) 34 #5758

Schmidt, Jochen W.

Extremwertermittlung mit Funktionswerten. *Wiss. Z. Techn. Univ. Dresden* 12 (1963), 1601-1605. (W. C. Rheinboldt) 29 #2936

* Fehlerabschätzungen und Konvergenzbetrachtungen zum gewöhnlichen Differenzenverfahren und zum Mehrstellenverfahren. *Zur Erlangung des akademischen Grades eines habilitierten Doktors der Naturwissenschaften bei der Fakultät für Mathematik und Naturwissenschaften der Technischen Universität Dresden eingereicht, Dresden,* 1964. vi + 88 *pp.* (Editors) 30 #5507

Ausgangsvektoren für monotone Iterationen bei linearen Gleichungssystemen. *Numer. Math.* 6 (1964), 78-88. (J. Schröder) 29 #2954

Konvergenzbeschleunigung bei monotonen Vektorfolgen. *Acta Math. Acad. Sci. Hungar.* 16 (1965), 221-229. (J. Schröder) 31 #4159

Fehlerabschätzung und Konvergenzbeschleunigung zu Iterationen bei linearen Gleichungssystemen. *Apl. Mat.* 10 (1965), 297-301. (J. Schröder) 32 #8488

(with Trinkaus, H.-F.) Extremwertermittlung mit Funktionswerten bei Funktionen von mehreren Veränderlichen. (English summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 224-232. (H. H. Goldstine) 35 #3864

Asymptotische Einschliessung bei konvergenzbeschleunigenden Verfahren. *Numer. Math.* 8 (1966), 105-113. (J. Stoer) 33 #1951

Defektabschätzungen bei Differenzenverfahren. (English and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 17-39. (Author's summary) 35 #3893

Konvergenzgeschwindigkeit der Regula falsi und des Steffensen-Verfahrens im Banachraum. *Z. Angew. Math. Mech.* 46 (1966), 146-148. (W. V. Petryshyn) 35 #1210

(with Dressel, Hartmut) Fehlerabschätzungen bei Polynomgleichungen mit dem Fixpunktsatz von Brouwer. *Numer. Math.* 10 (1967), 42-50. (J. F. Traub) 35 #7576

(with Schönheinz, Hartmut) Fehlerschranken für die genäherte Lösung von Rand- und Eigenwertaufgaben bei gewöhnlichen Differentialgleichungen durch Differenzenverfahren. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 125-140. *Birkhäuser, Basel,* 1968. (A. R. Mitchell) 42 #5457

(with Schwetlick, H.) Ableitungsfreie Verfahren mit höherer Konvergenzgeschwindigkeit. (English summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 215-226. (Authors' summary) 38 #2944

Ein Konvergenzsatz für Iterationsverfahren. *Math. Nachr.* 37 (1968), 67-82. (G. Meinardus) 37 #4936

Asymptotische Einschliessung bei konvergenzbeschleunigenden Verfahren. II. *Numer. Math.* 11 (1968), 53-56. (J. Stoer) 36 #7292

(with Leder, D.) Ableitungsfreie Verfahren ohne Auflösung linearer Gleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 71-81. (E. Frank) 42 #1329

(with Leonhardt, H.) Eingrenzung von Lösungen mit Hilfe der Regula falsi. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 318-329. (Authors' summary) 44 #3488

(with Vetters, Klaus) Ableitungsfreie Verfahren für nichtlineare Optimierungsprobleme. (English summary) *Numer. Math.* 15 (1970), 263-282. (G. Owen) 42 #8668

Schmidt, Jürgen

Peano-Bäume. *Z. Math. Logik Grundlagen Math.* 6 (1960), 225-239. (G. Kurepa (Zbl 97, 41)) 32 #4017

Die Charakteristik einer allgemeinen Algebra. II. *Arch. Math.* 15 (1964), 286-301. (O. Pretzel) 32 #73

Concerning some theorems of Marczewski on algebraic independence. *Colloq. Math.* 13 (1964), 11-15. (H. J. Keisler) 31 #1219

Some properties of algebraically independent sets in algebras with infinitary operations. *Fund. Math.* 55 (1964), 123-137. (O. Pretzel) 32 #74

Die Charakteristik einer Halbgruppe. *Arch. Math.* 16 (1965), 407-411. (K. H. Hofmann) 33 #213

Die überinvarianten und verwandte Kongruenzrelationen einer allgemeinen Algebra. *Math. Ann.* 158 (1965), 131-157. (G. Grätzer) 32 #75

Über die Dimension einer partiellen Algebra mit endlichen oder unendlichen Operationen. *Z. Math. Logik Grundlagen Math.* 11 (1965), 227-239. (G. Grätzer) 32 #76

A general existence theorem on partial algebras and its special cases. *Colloq. Math.* 14 (1966), 73-87. (R. Sikorski) 32 #2363

(with Ostermann, Fritz) Der baryzentrische Kalkül als axiomatische Grundlage der affinen Geometrie. *J. Reine Angew. Math.* 224 (1966), 44-57. (G. J. Schellekens) 34 #6599

(with Burmeister, Peter) Über die Dimension einer partiellen Algebra mit endlichen oder unendlichen Operationen. II. *Z. Math. Logik Grundlagen Math.* 12 (1966), 311-315. (G. Grätzer) 34 #1243

Symmetric approach to the fundamental notions of general topology. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos.,* 1966*), pp.* 308-319. *Academia, Prague,* 1967. (S. A. Naimpally) 38 #658

(with Burmeister, P.) On the completion of partial algebras. *Colloq. Math.* 17 (1967), 235-245. (H. F. J. Lowig) 37 #125

Direct sums of partial algebras and final algebraic structures. *Canad. J. Math.* 20 (1968), 872-887. (G. Grätzer) 38 #3210

Universelle Halbgruppe, Kategorien, freies Produkt. *Math. Nachr.* 37 (1968), 345-358. (K. Drbohlav) 39 #1384

(with Novák, Vítězslav) Direct decompositions of partially ordered sets with zero. *J. Reine Angew. Math.* 239/240 (1969), 97-108. (R. P. Dilworth) 41 #1595

A homomorphism theorem for partial algebras. *Colloq. Math.* 21 (1970), 5-21. (M. Gould) 43 #7395

A semigroup in function algebra. *Semigroup Forum* 2 (1971), *no.* 2, 119-129. (J. Sonner) 43 #3199

Schmidt, K.

(with Zinterhof, P.) Über Quadraturformeln auf T^{ω}. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 94-96. (Authors' summary) 43 #5725

Zur Berechnung des vollständigen elliptischen Integrals dritter Gattung durch Rekursion. *Z. Angew. Math. Mech.* 51 (1971), 57-60. (B. C. Carlson) 43 #5692

Schmidt, K. W.

Irreducible binary matrices. *SIAM Rev.* 11 (1969), 257-260. (N. J. Pullman) 41 #239

Lower bounds for maximal (0,1)-determinants. *SIAM J. Appl. Math.* 19 (1970), 440-442. (R. A. Brualdi) 42 #292

Schmidt, Klaus

Über einen Zusammenhang zwischen gleichverteilten Punkt- und Maßfolgen. *J. Reine Angew. Math.* 244 (1970), 94-96. (J. E. Cigler) 42 #7621

Limits of uniformly infinitesimal families of projective representations of locally compact groups. *Math. Ann.* 192 (1971), 107-118. (H. Heyer) 44 #5995

Eine Diskrepanz für Maßfolgen auf lokalkompakten Gruppen. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 17 (1971), 48-52. (J. E. Cigler) 44 #4796

Über die *C*-Gleichverteilung von Maßen. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 17 (1971), 327-332. (J. E. Cigler) 44 #4797

Schmidt, O. J. See Šmidt, Otto Jul'evič.

Schmidt, Olaf H.

(with Petersen, Viggo M.) The determination of the longitude of the apogee of the orbit of the sun according to Hipparchus and Ptolemy. *Centaurus* 12 (1967/68), 73-96. (G. J. Toomer) 40 #2494

A mean value principle in Babylonian planetary theory. *Centaurus* 14 (1969), 267-286. (G. J. Toomer) 41 #8194

Schmidt, Paul W.

Asymptotic expansion of certain integrals containing the Bessel function $J_0(x)$. *J. Mathematical Phys.* 5 (1964), 1183-1184. (Author's summary) 29 #2442

Asymptotic expansion of the intensity of the small-angle x-ray scattering from cylinders of arbitrary cross section. *J. Mathematical Phys.* 6 (1965), 424-431. (L. B. Wetzel) 31 #5460

Schmidt, Peter Georg

* Abschätzungen bei unsymmetrischen Gitterpunktproblemen. Dissertation zur Erlangung des Doktorgrades der Mathematisch-Naturwissenschaftlichen Fakultät der Georg-August-Universität zv Göttingen. *Dissertation, Göttingen,* 1964. ii + 41 *pp.* (R. A. Rankin) 31 #5837

Zur Anzahl Abelscher Gruppen gegebener Ordnung. II. *Acta Arith.* 13 (1967/68), 405-417. (H.-E. Richert) 37 #190

Zur Anzahl Abelscher Gruppen gegebener Ordnung. *J. Reine Angew. Math.* 229 (1968), 34-42. (H.-E. Richert) 36 #6305

Schmidt, Robert

Sandwich shells of arbitrary shape. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 239-244. (Author's summary) 29 #793

Schmidt, Roland

Verbandshomomorphismen endlicher Gruppen. *Rend. Sem. Mat. Univ. Padova* 38 (1967), 331-357. (R. Kochendörffer) 36 #5233

Eine verbandstheoretische Charakterisierung der auflösbaren und der überauflösbaren endlichen Gruppen. *Arch. Math. (Basel)* 19 (1968), 449-452. (H. Lausch) 39 #1563

Endliche Gruppen mit vielen modularen Untergruppen. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 115-125. (H. Bechtell) 43 #2103

Modulare Untergruppen endlicher Gruppen. *Illinois J. Math.* 13 (1969), 358-377. (W. P. Kappe) 41 #3617

Modular subgroups of finite groups. II. *Illinois J. Math.* 14 (1970), 344-362. (W. P. Kappe) 41 #3618

Charakterisierung der einfachen Gruppe der Ordnung 175 560 durch ihren Zentralisatorverband. *Math. Z.* 116 (1970), 299-306. (J. H. Walter) 44 #1727

Schmidt, Stanisław

Mathematical models of classification in object recognition problems. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 9 (1964), 427-442. (Z. Šidák) 33 #8226

Synthesis of classificators in the case of Gaussian probability distribution of measurements. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 10 (1965), 29-40. 33 #2473

On two adaptive classification processes. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 10 (1965), 209-225. (J. J. Mehlberg) 33 #7188

Schmidt, U.

Wave propagation in M. F. D. *Magnetofluidodinamica (Centro Internaz. Mat. Estivo, 3o Ciclo, Varenna, 1962), Conferenza 7, 27 pp. Edizioni Cremonese, Rome,* 1964. (C. S. Gardner) 30 #1717

Schmidt, Uwe Hansen. See Hansen-Schmidt, Uwe.

Schmidt, Wolfgang

Beziehungen zwischen Idealen und ihren Leitidealen in kompletten lokalen Ringen. *Math. Nachr.* 40 (1969), 131-143. (W. Heinzer) 40 #143; erratum, 41, p. 1964.

(See also Demidovič, B. P.; Maron, I. A.; Šuvalova, È. Z., 39 #1071 and Judin, D. B.; Gol´šteĭn, E. G., 43 #2985b)

Schmidt, Wolfgang M.

Ein kombinatorisches Problem von P. Erdős und A. Hajnal. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 373-374. (M. S. Cheema) 29 #4701

Normalität bezüglich Matrizen. *J. Reine Angew. Math.* 214/215 (1964), 227-260. (I. Niven) 29 #1224

Metrische Sätze über simultane Approximation abhängiger Grössen. *Monatsh. Math.* 68 (1964), 154-166. (B. Volkmann) 30 #1980

Über simultane Approximation algebraischer Zahlen durch Rationale. *Acta Math.* 114 (1965), 159-206. (K. Mahler) 31 #2206

On badly approximable numbers. *Mathematika* 12 (1965), 10-20. (J. W. S. Cassels) 31 #5838

Masstheorie in der Geometrie der Zahlen. (French summary. With discussion) *Les Tendances Geom. en Algèbre et Théorie des Nombres, pp. 225-229. Éditions du Centre National de la Recherche Scientifique, Paris,* 1966. (H. J. Godwin) 34 #5763

Simultaneous approximation to a basis of a real numberfield. *Amer. J. Math.* 88 (1966), 517-527. (R. P. Bambah) 34 #2529

On badly approximable numbers and certain games. *Trans. Amer. Math. Soc.* 123 (1966), 178-199. (T. M. Cover) 33 #3793

(with Davenport, H.) Approximation to real numbers by quadratic irrationals. *Acta Arith.* 13 (1967/68), 169-176. (W. W. Adams) 36 #2558

(with Davenport, H.) A theorem on linear forms. *Acta Arith.* 14 (1967/68), 209-223. (W. W. Adams) 37 #1321

On simultaneous approximations of two algebraic numbers by rationals. *Acta Math.* 119 (1967), 27-50. (S. L. Segal) 36 #6357

On heights of algebraic subspaces and diophantine approximations. *Ann. of Math.* (2) 85 (1967), 430-472. (J. W. S. Cassels) 35 #4165

Some diophantine equations in three variables with only finitely many solutions. *Mathematika* 14 (1967), 113-120. (W. H. Mills) 36 #3722

A problem of Schinzel on lattice points. *Acta Arith.* 15 (1968/69), 199-203. (E. S. Barnes) 39 #1408

(with Davenport, H.) Approximation to real numbers by algebraic integers. *Acta Arith.* 15 (1968/69), 393-416. (W. W. Adams) 40 #91

Asymptotic formulae for point lattices of bounded determinant and subspaces of bounded height. *Duke Math. J.* 35 (1968), 327-339. (E. S. Barnes) 37 #161

Irregularities of distribution. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 181-191. (I. Niven) 37 #4029

Some results in probabilistic geometry. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 158-162. (J. G. Wendel) 37 #4847

(with Davenport, H.) Dirichlet's theorem on diophantine approximation. II. *Acta Arith.* 16 (1969/70), 413-424. (W. J. LeVeque) 43 #4766

Irregularities of distribution. II. *Trans. Amer. Math. Soc.* 136 (1969), 347-360. (I. Niven) 38 #3237

Irregularities of distribution. III. *Pacific J. Math.* 29 (1969), 225-234. (I. Niven) 39 #6837

Irregularities of distribution. IV. *Invent. Math.* 7 (1969), 55-82. (I. Niven) 39 #6838

Badly approximable systems of linear forms. *J. Number Theory* 1 (1969), 139-154. (L. C. Eggan) 40 #1344

Disproof of some conjectures on Diophantine approximations. *Studia Sci. Math. Hungar.* 4 (1969), 137-144. (W. W. Adams) 40 #92

(with Davenport, H.) Dirichlet's theorem on diophantine approximation. *Symposia Mathematica, Vol. IV (INDAM, Rome, 1968/69), pp. 113-132. Academic Press, London,* 1970. (W. J. LeVeque) 42 #7603

(with Davenport, H.) Supplement to a theorem on linear forms. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen, 1968), pp. 15-25. North-Holland, Amsterdam,* 1970. (W. W. Adams) 42 #7602

T -numbers do exist. *Symposia Mathematica, Vol. IV (INDAM, Rome, 1968/69), pp. 3-26. Academic Press, London,* 1970. (W. J. LeVeque) 43 #4769

Simultaneous approximation to algebraic numbers by rationals. *Acta Math.* 125 (1970), 189-201. (K. Mahler) 42 #3028

Irregularities of distribution. V. *Proc. Amer. Math. Soc.* 25 (1970), 608-614. (I. Niven) 41 #8348; erratum, 42, p. 1825.

(with Baker, A.) Diophantine approximation and Hausdorff dimension. *Proc. London Math. Soc.* (3) 21 (1970), 1-11. (W. W. Adams) 42 #5916

Remark on my paper: "Disproof of some conjectures on diophantine approximations". *Studia Sci. Math. Hungar.* 5 (1970), 479. (Editors) 44 #2710

Diophantine approximation and certain sequences of lattices. *Acta Arith.* 18 (1971), 165-178. *(errata insert)* (W. W. Adams) 44 #3960

Schmincke, Upke-Walther

Über das Verhalten der Eigenfunktionen eines singulären elliptiachen Differentialoperators. *Math. Z.* 111 (1969), 267-288. (H. F. Weinberger) 40 #3087

Über die Potenzräume eines Schrödinger-Operators. *Math. Z.* 114 (1970), 349-360. (B. Hellwig) 41 #9059

Schmir Hay, Louise. See Hay, Louise Schmir.

Schmitendorf, William E.

(with Citron, S. J.) On the applicability of the sweep method to optimal control problems. *IEEE Trans. Automatic Control* AC-14 (1969), 69-72. (N. Kikuchi) 41 #6603

(with Citron, S. J.) A conjugate-point condition for a class of differential games. *J. Optimization Theory Appl.* 4 (1969), 109-121. (H. T. Banks) 41 #1396

Differential games with open-loop saddle point conditions. *IEEE Trans. Automatic Control* AC-15 (1970), 320-325. (Author's summary) 43 #1661

Existence of optimal open-loop strategies for a class of differential games. *J. Optimization Theory Appl.* 5 (1970), 363-375. (J. Fichefet) 42 #1540

(with Rekasius, Z. V.) On the noninferiority of Nash equilibrium solutions. *IEEE Trans. Automatic Control* AC-16 (1971), 170-173. (Authors' summary) 44 #2502

Schmitgen, Günther

* Tschebyscheff-Approximation von Intervallfunktionen durch verallgemeinerte Intervallpolynome. BMBW-GMD-26. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1970. iii + 63 *pp.* (E. W. Cheney) 43 #781

Schmitt, Alfred A.

Über die Berechnung minimaler Turingmaschinen und anderer minimaler Systeme. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 313-326. (S. Huzino) 40 #2467

Zur Theorie der nichtdeterministischen und unvollständigen Automaten. (English summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 56-74. (H. Rohleder) 39 #8027

The state complexity of Turing machines. *Information and Control* 17 (1970), 217-225. (Author's summary) 42 #7439

Schmitt, B.

(with Dussel, R.) Die Berechnung von Schranken für den Wertebereich eines Polynoms in einem Intervall. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 35-60. (Authors' summary) 43 #5696

Schmitt, Bruno V.

Index associé à un système différentiel linéaire, périodique, du second ordre. *Enseignement Math.* 13 (1967), 313-323 (1968). (J. P. Wilson) 39 #3080

Index d'un système différentiel du second ordre à coefficients périodiques. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A80-A83. (K. R. Meyer) 39 #7217

Schmitt, Karl-Adolf

* Winkel- und Transitivitätseigenschaften in Berührstrukturen. Dissertation zur Erlangung des Doktorgrades bei der Naturwissenschaftlichen Fakultät der Johannes Gutenberg-Universität zu Mainz. *Dissertation, Mainz,* 1963. 5 *pp.* (R. Moufang) 30 #5194

Kennzeichnung des Steinerpunktes konvexer Körper. *Math. Z.* 105 (1968), 387-392. (G. C. Shephard) 37 #6834

Schmitt, Klaus

Periodic solutions of nonlinear second order differential equations. *Math. Z.* 98 (1967), 200-207. (J. A. Marlin) 35 #4511

(with Grimm, L. J.) Boundary value problems for delay-differential equations. *Bull. Amer. Math. Soc.* 74 (1968), 997-1000. (T. L. Sherman) 37 #4364

Boundary value problems for nonlinear second order differential equations. *Monatsh. Math.* 72 (1968), 347-354. (P. B. Bailey) 37 #6526

Bounded solutions of nonlinear second order differential equations. *Duke Math. J.* 36 (1969), 237-243. (L. K. Jackson) 39 #1740

On the global existence of solutions of second order ordinary differential equations. *J. Differential Equations* 5 (1969), 476-482. (A. A. Juščenko) 38 #6139

On solutions of nonlinear differential equations with deviating arguments. *SIAM J. Appl. Math.* 17 (1969), 1171-1176. (Å. Elbert) 41 #8782

(with Grimm, L. J.) Boundary value problems for differential equations with deviating arguments. *Aequationes Math.* 4 (1970), 176-190. (B. Stephan) 41 #7237

A nonlinear boundary value problem. *J. Differential Equations* 7 (1970), 527-537. (D. K. Hughes) 40 #7523

Periodic solutions of linear second order differential equations with deviating argument. *Proc. Amer. Math. Soc.* 26 (1970), 282-285. (D. Wexler) 42 #631

Comparison theorems for second order delay differential equations. *Rocky Mountain J. Math.* 1 (1971), *no.* 3, 459-467. (V. Staikos) 43 #5128

Schmitz, Norbert

Zur Existenz gleichmässig bester unverfälschter Tests bei Exponentialfamilien. (English summary) *Metrika* 12 (1967/68), 205-212. (V. Kurotschka) 37 #3684

Likelihoodquotienten-Sequenztests bei homogenen Markoffschen Ketten. (English summary) *Biometrische Z.* 10 (1968), 231-247. (P. J. Huber) 44 #6112

(with Krafft, O.) A note on Hoeffding's inequality. *J. Amer. Statist. Assoc.* 64 (1969), 907-912. (G. Elfving) 40 #8190

Existenz von sequentiellen Tests zu vorgegebenen Niveaus. *Arch. Math. (Basel)* 21 (1970 71), 617-628. (J. Kiefer) 44 #3434

Schmutz, Paul

Des espérances mathématiques de X^{-1} et X^{-2}. *Publ. Inst. Statist. Univ. Paris* 13 (1964), 153-168. (E. Lukacs) 30 #646

Schmutzer, Ernst

(with Weber, G.) Zur nichtrelativistischen zweiten Näherung der Diracschen Theorie des Elektrons. (English summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 2 *Phys.* 55 (1960/61), 105-115 (1962). (R. Ingraham) 29 #4493

Einige Bemerkungen zur Theorie der Spinoren und Bispinoren in der gekrümmten Raum-Zeit. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 57-65. (W. Rindler) 29 #5608

Zu den Grundlagen der allgemein-relativistischen Kontinuumsmechanik und Thermodynamik. *Ann. Physik* (7) 14 (1964), 56-70. (H. Rund) 31 #3203

Einige Gedanken zur Energie-Impuls-Problematik in der allgemeinen Relativitätstheorie. *Ann. Physik* (7) 14 (1964), 319-321. (R. H. Boyer) 31 #3204

Entwicklung einer physikalischen Geometrie der Raum-Zeit zum Zwecke der Interpretation der allgemeinen Relativitätstheorie. (English summary) *Z. Naturforsch.* 19a (1964), 665-675. (H. Rund) 29 #3219

Spinorielle Feldtheorien und Noether-Theorem in der gekrümmten Raum-Zeit. (English summary) *Z. Naturforsch.* 19a (1964), 1027-1031. (H. Rund) 29 #6914

Use of delta functions in general relativity for determination of the integration constants. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 24 (1968), 325-330. (F. A. E. Pirani) 38 #912

Schnabl, Roman

Zur Theorie der homogenen Gleichverteilung modulo 1. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 172 (1963), 43-77. (J. E. Cigler) 29 #2235

Eine Verallgemeinerung der Bernsteinpolynome. *Math. Ann.* 179 (1968), 74-82. (R. C. Buck) 38 #4881

Zum Saturationsproblem der verallgemeinerten Bernsteinoperatoren. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach,* 1968*), pp.* 281-289. *Birkhäuser, Basel,* 1969. (H. Berens) 42 #6493

Zur Approximation durch Bernsteinpolynome auf gewissen Räumen von Wahrscheinlichkeitsmassen. *Math. Ann.* 180 (1969), 326-330. (S. I. Drobnies) 39 #4564

Zum globalen Saturationsproblem der Folge der Bernsteinoperatoren. *Acta Sci. Math. (Szeged)* 31 (1970), 351-358. (S. I. Drobnies) 43 #794

Schnare, Paul S.

The maximal T_0 (respectively, T_1) subspace lemma is equivalent to the axiom of choice. *Amer. Math. Monthly* 75 (1968), 761. (J. M. Day) 38 #3819

Multiple complementation in the lattice of topologies. *Fund. Math.* 62 (1968), 53-59. (Anne K. Steiner) 37 #873

Infinite complementation in the lattice of topologies. *Fund. Math.* 64 (1969), 249-255. (Anne K. Steiner) 39 #3444

Schneeberger, Charles

(with Rust, B.; Burrus, W. R.) A simple algorithm for computing the generalized inverse of a matrix. *Comm. ACM* 9 (1966), 381-385, 387. (B. N. Parlett) 33 #3448

Commutators on a separable L^p-space. *Proc. Amer. Math. Soc.* 28 (1971), 464-472. (P. A. Fillmore) 44 #3144

Schneeweiss, Ch.

Anwendung der Wiener'schen Filtertheorie auf diskontinuierliche Lagerhaltungs-Produktions-Modelle. (English summary) *Unternehmensforschung* 14 (1970), 175-188. (George Weiss) 42 #2790

Schneeweiss, Hans

Konsequenzen des Bernoulli-Prinzips für die Präferenzstruktur von Normalverteilungen. (English summary) *Unternehmensforschung* 9 (1965), 238-249. 32 #3236

* Entscheidungskriterien bei Risiko. Ökonometrie und Unternehmensforschung, Band VI. *Springer-Verlag, Berlin-New York,* 1967. xii + 214 *pp.* (S. Zubrzycki (Zbl 147, 167)) 39 #2439

Note on two dominance principles in decision theory. (German summary) *Unternehmensforschung* 12 (1968), 213-216. (W. Uhlmann) 39 #4999

Schneeweiß, W.

Ausfallwahrscheinlichkeiten von mehrfach unterteilten und verkoppelten Doppelsystemen. (English summary) *Regelungstech. Prozess-Datenverarbeit.* 19 (1971), *Heft* 8, 344-349. (G. D. Allen) 44 #5162

Schneider, Albert

Bemerkung zur numerischen Differentiation. *Numer. Math.* 6 (1964), 332-334. (R. A. Valentin) 31 #6350 .

(with Schäfke, F. W.) S-hermitesche Rand-Eigenwertprobleme. I. *Math. Ann.* 162 (1965/66), 9-26. (L. Collatz) 32 #5968

Eine Bemerkung zum Weyl-Stoneschen Eigenwertproblem. *Arch. Math. (Basel)* 17 (1966), 352-358. (J. J. Schäffer) 33 #5998

(with Schäfke, F. W.) S-hermitesche Rand-Eigenwertprobleme. II. *Math. Ann.* 165 (1966), 236-260. (L. Collatz) 33 #7664

(with Schäfke, F. W.) S-hermitesche Rand-Eigenwertprobleme. III. *Math. Ann.* 177 (1968), 67-94. (L. Collatz) 37 #4315

Zur Einordnung selbstadjungierter Rand-Eigenwertprobleme bei gewöhnlichen Differentialgleichungen in die Theorie S-hermitescher Rand-Eigenwertprobleme. *Math. Ann.* 178 (1968), 277-294. (W. E. Boyce) 38 #3736

Untersuchungen über singuläre reelle S-hermitesche Differentialgleichungssysteme im Normalfall. *Math. Z.* 107 (1968), 271-296. (H. Hochstadt) 38 #3735

Geometrische Bedeutung eines Satzes vom Weylschen Typ für S-hermitesche Differentialgleichungssysteme im Normalfall. *Arch. Math. (Basel)* 20 (1969), 147-154. (L. Collatz) 40 #1626

Die Greensche Matrix S-hermitescher Rand-Eigenwertprobleme im Normalfall. *Math. Ann.* 180 (1969), 307-312. (L. Collatz) 39 #3086

Weitere Untersuchungen über singuläre reelle S-hermitesche Differentialgleichungssysteme im Normalfall. *Math. Z.* 109 (1969), 153-168. (H. Hochstadt) 39 #3354

Zum Entwicklungssatz bei reellen singulären Differentialgleichungssystemen. *Arch. Math. (Basel)* 21 (1970), 192-197. (H. Hochstadt) 42 #2311

Schneider, Friedrich

Vergleich verschiedener Methoden zur Untersuchung nichtlinearer Systeme mit Hilfe der zweiten Methode von Ljapunov an Hand eines Systems 3. Ordnung. (English and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 328-343. (F. Brauer) 34 #441

Dualität und Martinrand. *Elliptische Differentialgleichungen, Band I (Kolloq., Berlin,* 1969*), pp.* 119-136. *Akademie-Verlag, Berlin,* 1970. (Y. Kusunoki) 43 #2232

Schneider, Hans

* Recent advances in matrix theory. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, October 14-16, 1963. *The University of Wisconsin Press, Madison, Wis.,* 1964. xi + 142 *pp.* (Editors) 29 #2265

(with Rudin, Walter) Idempotents in group rings. *Duke Math. J.* 31 (1964), 585-602. (I. G. Amemiya) 29 #5119

(with Bleicher, Michael N.) The decomposition of cones in modules over ordered rings. *J. Algebra* 1 (1964), 233-258. (J. Guérindon) 29 #5866

(with Ohm, Jack) Matrices similar on a Zariski-open set. *Math. Z.* 85 (1964), 373-381. (P. Samuel) 29 #5857

(with Nirschl, Nicholas) The Bauer fields of values of a matrix. *Numer. Math.* 6 (1964), 355-365. (F. L. Bauer) 31 #871

Positive operators and an inertia theorem. *Numer. Math.* 7 (1965), 11-17. (O. Taussky-Todd) 30 #3888

(with Bleicher, M. N.) Completions of partially ordered sets and universal algebras. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 271-301. (P. F. Conrad) 34 #2503

Topological aspects of Sylvester's theorem on the inertia of Hermitian matrices. *Amer. Math. Monthly* 73 (1966), 817-821. (G. E. Wall) 34 #1335

(with Bryant, B. F.) Principal loop-isotopes of quasigroups. *Canad. J. Math.* 18 (1966), 120-125. (R. Artzy) 32 #5772

(with Brualdi, Richard A.; Parter, Seymour V.) The diagonal equivalence of a nonnegative matrix to a stochastic matrix. *J. Math. Anal. Appl.* 16 (1966), 31-50. (M. Marcus) 34 #5844

(with Weissglass, Julian) Group rings, semigroup rings and their radicals. *J. Algebra* 5 (1967), 1-15. (S. A. Amitsur) 35 #4317

(with Bonsall, F. F.; Cain, B. E.) The numerical range of a continuous mapping of a normed spaces. *Aequationes Math.* 2 (1968), 86-93. (S. K. Berberian) 38 #552

* (with Kapp, Kenneth M.) Completely O-simple semigroups. An abstract treatment of the lattice of congruences. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. v + 110 *pp.* (J. Kist) 39 #2898

(with Menon, M. V.) The spectrum of a nonlinear operator associated with a matrix. *Linear Algebra and Appl.* 2 (1969), 321-334. (J. G. Mauldon) 40 #162

Bound norms. *Linear Algebra and Appl.* 3 (1970), 11-21. (J. T. Marti) 41 #5941

(with Vidyasagar, Mathukumalli) Cross-positive matrices. *SIAM J. Numer. Anal.* 7 (1970), 508-519. (H. Schwerdtfeger) 43 #3283

(with Turner, R. E. L.) Positive eigenvectors of order-preserving maps. *J. Math. Anal. Appl.* 37 (1972), 506-515. (H. E. Lacey) 44 #5754

Schneider, Hans-Jochen

* n-Matrizenbüschel mit der Eigenschaft I. Von der Universität Stuttgart zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart,* 1967. iii + 33 *pp.* (R. C. Thompson) 38 #2153

Schneider, Hubert H.

A syntactical characterization of the predicate calculus with identity and the validity in all individual-domains. *Portugal. Math.* 20 (1961), 105-117. (S. C. van Westrhenen (Zbl 97, 245)) 32 #3992

Schneider, Ivo

Die Entstehung der Legende um die kriegstechnische Anwendung von Brennspiegeln bei Archimedes. *Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte (Festschrift für Kurt Vogel), pp.* 31-42. *Forschungsinst. Deutsch. Museums Gesch. Naturwissensch. Tech., Munich,* 1968. (I. N. Veselovskiĭ) 38 #5551

Schneider, Joel E.

A generalization of the von Koch curve. *Math. Mag.* 38 (1965), 144-147. (O. Bottema) 31 #2654

A note on the theory of primes. *Pacific J. Math.* 30 (1969), 805-810. (D. Kirby) 40 #1379

(with Pearson, K. R.) Rings with a cyclic group of units. *J. Algebra* 16 (1970), 243-251. (K. A. Hirsch) 42 #315

Schneider, K. R.

Vergleichskriterien zum Nachweis des Fehlens periodischer Lösungen und eine Bemerkung zu einem Satz von V. und Vl. Tkačev. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 500-504. (C. S. Coleman) 33 #346

Über eine Klasse von Grenzzyklen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 10 (1968), 738-748. (H. Hochstadt) 40 #447

Estimations of the lengths and periods of closed trajectories. *Quart. Appl. Math.* 27 (1969), 281-284. (C. C. Conley) 39 #5868

Über die periodischen Lösungen einer Klasse nichtlinearer autonomer Differentialgleichungssysteme dritter Ordnung. *Z. Angew. Math. Mech.* 49 (1969), 441-443. (G. R. Sell) 40 #5980

Zweidimensionale Sturmsche Ketten. *Z. Angew. Math. Mech.* 50 (1970), 572-573. (W. J. Kotzé) 43 #1413

Eine ausgezeichnete Lösung für eine Klasse von Integralgleichungen erster Art mit ausgeartetem Kern. *Monatsb. Deutsch. Akad. Wiss. Berlin* 13 (1971), 403-407. (I. Fenyő) 44 #7230

Schranken für den Umfang und die Periode geschlossener Integralkurven von Differentialgleichungssystemen dritter und höherer Ordnung. *Z. Angew. Math. Mech.* 51 (1971), 149-151. (G. J. Butler) 43 #7716

Schneider, Leo J.

Oscillation properties of the 2-2 disconjugate fourth order selfadjoint differential equation. *Proc. Amer. Math. Soc.* 28 (1971), 545-550. (M. E. Muldoon) 43 #7713

Schneider, Manfred

* Eine Methode zur näherungsweisen Lösung von Rand- und Anfangswertaufgaben bei gewöhnlichen Differentialgleichungen. Von der Fakultät für Mathematik und Naturwissenschaften der Hochschule für Maschinenbau Karl-Marx-Stadt genehmigte Dissertation zur Erlangung des Grades eines Dr. rer. nat. *Dissertation, Karl-Marx-Stadt,* 1963. ii + 73 *pp.* (L. Collatz) 31 #4187

Über die näherungsweise Lösung von Integralgleichungen. *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 535-537. (H. Oser) 34 #3252

(See also Haack, W., Wendland, W., 34 #6295)

Einige Bemerkungen zur näherungwseisen Lösung gewöhnlicher Differentialgleichungen. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 8 (1966), 239-242. (Walter Gautschi) 37 #7091

Über die näherungsweise Lösung von Gleichungen in Banachräumen. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 8 (1966), 243-245. (H. H. Goldstine) 38 #1570

Das Einschliessen der Lösungen von Gleichungen im Banachraum. *Arch. Math. (Brno)* 3 (1967), 45-54. (R. F. Albrecht) 36 #6992

Anfangswertprobleme bei linearen partiellen Differentialgleichungssystemen erster Ordnung vom gemischten Typ. *Math. Z.* 101 (1967), 41-60. (H. Ogawa) 36 #1849

Das Einschließen der Lösung von Gleichungen mittels eines verallgemeinerten Iterationsverfahrens. *Arch. Math. (Brno)* 4 (1968), 75-86. (L. Collatz) 42 #8688

Angangs-Randwertprobleme bei linearen partiellen Differentialgleichungssystemen erster Ordnung vom gemischten Typ. *Math. Z.* 103 (1968), 173-183. (H. Ogawa) 36 #4163

Bemerkungen zu zwei Arbeiten über lineare partielle Differentialgleichungssysteme erster Ordnung vom gemischten Typ. *Math. Z.* 107 (1968), 237-240. (P. Cooperman) 38 #6245

Einschliessen der Lösung einer Gleichung durch ein Iterationsverfahren bei Iteration mit einem Näherungsoperator. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 10 (1968), 557-560. (W. C. Rheinboldt) 40 #3675a

Bemerkungen zur Erzwingung von Einschliessungsaussagen bei einem Iterationsverfahren. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 10 (1968), 561-564. (W. C. Rheinboldt) 40 #3675b

Schneider, Michael

Vollständige Durchschnitte in Steinschen Mannigfaltigkeiten. *Math. Ann.* 186 (1970), 191-200. (O. Forster) 41 #5656

Schneider, Peter R.

(with Roth, J. Paul; Bouricius, Willard G.) Programmed algorithms to compute tests to detect and distinguish between failures in logic circuits. *IEEE Trans. Electronic Computers* EC-16 (1967), 567-580. (Authors' summary) 37 #7222

Schneider, Robert

On certain homomorphisms of restriction algebras of symmetric sets. *Israel J. Math.* 6 (1968), 223-232. (I. Glicksberg) 38 #2531

Some theorems in Fourier analysis on symmetric sets. *Pacific J. Math.* 31 (1969), 175-195. (G. I. Gaudry) 40 #4693

Schneider, Rolf

Eine Kennzeichnung der Kugel. *Arch. Math.* 16 (1965), 235-240. (E. T. Kobayashi) 33 #681

Ähnlichkeits- und Translationssätze für Eiflächen. *Arch. Math. (Basel)* 17 (1966), 267-273. (G. Ewald) 33 #6556

On A. D. Aleksandrov's inequalities for mixed discriminants. *J. Math. Mech.* 15 (1966), 285-290. (Y. Lehrer-Ilamed) 32 #5677

A note on branch points of minimal surfaces. *Proc. Amer. Math. Soc.* 17 (1966), 1254-1257. (F. J. Almgren, Jr.) 34 #1942

Über die Durchschnitte translationsgleicher konvexer Körper und eine Klasse konvexer Polyeder. *Abh. Math. Sem. Univ. Hamburg* 30 (1967), 118-128. (L. W. Danzer) 35 #6029

A characteristic property of the ellipsoid. *Amer. Math. Monthly* 74 (1967), 416-418. (G. D. Chakerian) 35 #944

Zu einem Problem von Shephard über die Projektionen konvexer Körper. *Math. Z.* 101 (1967), 71-82. (K. Strubecker) 36 #2059

Zur affinen Differentialgeometrie im Grossen. I. *Math. Z.* 101 (1967), 375-406. (E. Heil) 36 #3255

Zur affinen Differentialgeometrie im Grossen. II. Über eine Abschätzung der Pickschen Invariante auf Affinsphären. *Math. Z.* 102 (1967), 1-8. (E. Heil) 36 #3256

Eine allgemeine Extremaleigenschaft der Kugel. *Monatsh. Math.* 71 (1967), 231-237. (W. J. Firey) 35 #7204

Über die Finslerräume mit $S_{ijkl} = 0$. *Arch. Math. (Basel)* 19 (1968), 656-658 (1969). (F. Brickell) 39 #7549

Functions on a sphere with vanishing integrals over certain subspheres. *J. Math. Anal. Appl.* 26 (1969), 381-384. (John W. Green) 38 #6004

Characterization of certain polytopes by intersection properties of their translates. *Mathematika* 16 (1969), 276-282. (H. E. Debrunner) 41 #2527

Functional equations connected with rotations and their geometric applications. *Enseignement Math.* (2) 16 (1970), 297-305 (1971). (C. M. Petty) 44 #4642

Über eine Integralgleichung in der Theorie der konvexen Körper. *Math. Nachr.* 44 (1970), 55-75. (H. Groemer) 43 #1043

(with Weil, Wolfgang) Über die Bestimmung eines konvexen Körpers durch die Inhalte seiner Projektionen. *Math. Z.* 116 (1970), 338-348. (H. Hadwiger) 44 #922

Eine Verallgemeinerung des Differenzenkörpers. *Monatsh. Math.* 74 (1970), 258-272. (J. M. Wills) 41 #7531

On the projections of a convex polytope. *Pacific J. Math.* 32 (1970), 799-803. (G. Ewald) 42 #2363

(with Hadwiger, H.) Vektorielle Integralgeometrie. *Elem. Math.* 26 (1971), 49-57. (G. D. Chakerian) 44 #967

On Steiner points of convex bodies. *Israel J. Math.* 9 (1971), 241-249. (G. T. Sallee) 43 #3918

Gleitkörper in konvexen Polytopen. *J. Reine Angew. Math.* 248 (1971), 193-220. (H. E. Fettis) 43 #5411

Schneider, Theodor

Anwendung eines abgeänderten Roth-Ridoutschen Satzes auf diophantische Gleichungen. *Math. Ann.* 169 (1967), 177-182. (D. J. Lewis) 35 #6627

Über *p*-adische Kettenbrüche. *Symposia Mathematica, Vol. IV (INDAM, Rome,* 1968/69*), pp.* 181-189. *Academic Press, London,* 1970. (E. Frank) 42 #7601

Schneider, V. See Šneĭder, V. E.

Schneider, Volker

(with Freitag, Eberhard) Bemerkung zu einem Satz von J. Igusa und W. Hammond. *Math. Z.* 102 (1967), 9-16. (H. Klingen) 36 #3727

Schneider, W.

Reibungsfreie Hyperschallströmung um Profile mit scharfer Vorderkante. (English summary) *Acta Mech.* 1 (1965), 171-193. (H. C. Levey) 32 #4998

Reibungsfreie Hyperschallströmung eines realen Gases um einen angestellten Kreiskegel. *J. Méchanique* 5 (1966), 45-67. (M. Sichel) 34 #2252

Schneider, W. J.

An entire transcendental function whose inverse takes sets of finite measure into sets of finite measure. *Bull. Amer. Math. Soc.* 72 (1966), 841-842. (H. Kober) 34 #7800

Some extensions of the Nevanlinna 2-constant theorem and the Hadamard 3-circle theorem. *J. Math. Anal. Appl.* 17 (1967), 280-291. (W. H. J. Fuchs) 35 #4416

(with Cargo, G. T.) Polynomial images of circles and lines. *Math. Mag.* 40 (1967), 1-4. (H. T. Croft) 34 #7776

A problem in 2-dimensional heat flow. *Math. Mag.* 40 (1967), 144-145. (S. Albertoni) 37 #458

On the growth of entire functions along half rays. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.,* 1966*), pp.* 377-385. *Amer. Math. Soc., Providence, R. I.,* 1968. (Fred Gross) 38 #2303

(with Barth, K. F.) On the impossiblity of extending the Riesz uniqueness theorem to functions of slow growth. *Ann. Acad. Sci. Fenn. Ser. A I No.* 432 (1968), 9 pp. (Editors) 40 #361

An elementary proof of a theorem of MacLane. *Monatsh. Math.* 72 (1968), 144-146. (G. Piranian) 37 #3005

(with Barth, K. F.) On a question of Seidel concerning holomorphic functions bounded on a spiral. *Canad. J. Math.* 21 (1969), 1255-1262. (J. E. McMillan) 40 #362

(with Barth, K. F.) On a problem of Collingwood concerning meromorphic functions with no asymptotic values. *J. London Math. Soc.* (2) 1 (1969), 553-560. (S. M. Shah) 40 #363

(with Barth, K.) On a problem of Bagemihl and Erdös concerning the distribuiton of zeros of an annular function. *J. Reine Angew. Math.* 234 (1969), 179-183. (T. Sato) 39 #4401

(with Barth, K. F.) Exponentiation of functions in MacLane's class A. *J. Reine Angew. Math.* 236 (1969), 120-130. (P. Lappan) 39 #7110 (E)

(with Barth, K. F.) A short proof of a lemma of G. R. MacLane. *Proc. Amer. Math. Soc.* 20 (1969), 604-605. (G. R. MacLane) 38 #4688

(with Barth, K. F.) An asymptotic analog of the F. and M. Riesz radial uniqueness theorem. *Proc. Amer. Math. Soc.* 22 (1969), 53-54. (Fred Gross) 40 #364

(with Walsh, J. L.) On the shape of the level loci of harmonic measure. *J. Analyse Math.* 23 (1970), 441-460. (Z. Rubinstein) 42 #6205

(with Barth, K. F.) Entire functions mapping countable dense subsets of the reals onto each other monotonically. *J. London Math. Soc.* (2) 2 (1970), 620-626. (W. D. Maurer) 42 #4729

(with Barth, K. F.) Addendum to our paper "Exponentiation of functions in MacLane's class A". *J. Reine Angew. Math.* 252 (1972), 169-170. (P. Lappan) 44 #6965

(with Barth, K. F.) Integrals and derivatives of functions in MacLane's class $\mathcal{A}$ and of normal functions. *Proc. Cambridge Philos. Soc.* 71 (1972), 111-121. (D. Drasin) 44 #4209

Schneider, Walter

S-Matrix und interpolierende Felder. (English summary) *Helv. Phys. Acta* 39 (1966), 81-106. (R. F. Streater) 34 #3923

(with Albeverio, S.; Hunziker, W.; Schrader, R.) A note on L. D. Faddeev's three-particle theory. *Helv. Phys. Acta* 40 (1967), 745-748. (W. Güttinger) 36 #3548

A note on the commutation relations of field operators. *Helv. Phys. Acta* 42 (1969), 201-203. (Author's summary) 39 #1178

Schneiderman, Marvin A.

(with Myers, Max H.; Armitage, Peter) Boundaries for closed (wedge) sequential *t* test planes. *Biometrika* 53 (1966), 431-437. (J. Sacks) 37 #2378

Schnitzer, Franz

(with Seidel, Wladimir) On the modulus of unbounded holomorphic functions. *Math. Z.* 88 (1965), 301-308. (J. A. Cima) 31 #1382

(with Nishiura, Togo) Monotone functions and convex functions. *Michigan Math. J.* 12 (1965), 481-485. (S. Marcus) 32 #1308

(with Seidel, W.) On the rate with which a holomorphic function in a disk can tend radially to zero. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 876-877. (W. Schneider) 35 #6839

(with Brown, Leon; Shields, A. L.) A note on a problem of D. Pompeiu. *Math. Z.* 105 (1968), 59-61. (F. J. Almgren, Jr.) 37 #2156

(with Nishiura, Togo) Translations of planar convex sets. *Arch. Math. (Basel)* 22 (1971), 103-105. (K.-A. Schmitt) 44 #2139

Schnitzer, Howard J.

(with Coleman, Sidney) Mixing of elementary particles. *Phys. Rev.* (2) 134 (1964), B863-B872. (S. L. Glashow) 29 #3179

(with Coleman, Sidney) Departures from the eightfold way. II. Baryon electromagnetic masses. *Phys. Rev.* (2) 136 (1964), B223-B226. (S. L. Glashow) 31 #3091

(with Mayer, Meinhard E.; Sundarshan, E. C. G.; Acharya, R.; Han, M. Y.) Concerning space-time and symmetry groups. *Phys. Rev.* (2) 136 (1964), B888-B892. (A. O. Barut) 29 #6859

Dispersion relations and direct nuclear reactions. *Rev. Modern Phys.* 37 (1965), 666-678. (From the author's summary) 32 #2075

Current algebras and meson systems. *Phys. Rev.* (2) 141 (1966), 1484-1488. (Riazuddin) 33 #1064

Schnorr, Claus-Peter

Freie assoziative Systeme. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 319-340. (J. A. Schatz) 40 #1221

(with Walter, Hermann) Pullbackkonstruktionen bei Semi-Thuesystemen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 27-36. (R. N. Goss) 39 #6753

Transformational classes of grammars. *Information and Control* 14 (1969), 252-277. (R. E. Stearns) 40 #2475 (E)

Errata: "Transformational classes of grammars". *Information and Control* 15 (1969), 207. (R. E. Stearns) 40 #8537

Eine Bemerkung zum Begriff der zufälligen Folge. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 27-35. (J. E. Fenstad) 41 #9315

(See also Tagung über Formale Sprachen (Oberwolfach, 30.8.-5.9.1970), 43 #1781)

Über die Definition von effektiven Zufallstests. I, II. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 297-312; *ibid.* 15 (1970), 313-328. (J. E. Fenstad) 44 #5990a

Klassifikation der Zufallsgesetze nach Komplexität und Ordnung. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 1-21. (J. E. Fenstad) 44 #5990b

Komplexität von Algorithmen mit Anwendung auf die Analysis. *Arch. Math. Logik Grundlagenforsch.* 14 (1971), 54-68. (H. R. Strong) 43 #7328

Schnute, Jon T.

The scattering of surface waves by two submerged cylinders. *Proc. Cambridge Philos. Soc.* 69 (1971), 201-215. (T. Yao-tsu Wu) 42 #5520

Schober, G. E.

(with Warschawski, S. E.) On conformal mapping of certain classes of Jordan domains. *Arch. Rational Mech. Anal.* 22 (1966), 201-209. (T. Kubo) 33 #266

On the Fredholm eignevalues of plane domains. *J. Math. Mech.* 16 (1966), 535-541. (J. Burlak) 35 #1766

A constructive method for the conformal mapping of domains with corners. *J. Math. Mech.* 16 (1967), 1095-1115. (D. Gaier) 34 #6050

Continuity of curve functionals and a technique involving quasiconformal mapping. *Arch. Rational Mech. Anal.* 29 (1968), 378-389. (S. B. Agard) 37 #4252; erratum, 38, p. 1377.

Neumann's lemma. *Proc. Amer. Math. Soc.* 19 (1968), 306-311. (W. Schneider) 37 #448

Semicontinuity of curve functionals. *Arch. Rational Mech. Anal.* 33 (1969), 374-376. (S. B. Agard) 39 #7099

(with Hengartner, Walter) On Schlicht mappings to domains convex in one direction. *Comment. Math. Helv.* 45 (1970), 303-314. (F. R. Keogh) 43 #3436

(with Hengartner, Walter) Analytic functions close to mappings convex in one direction. *Proc. Amer. Math. Soc.* 28 (1971), 519-524. (B. G. Eke) 43 #3437

Schoch, Manfred

Eine für die numerische Rechnung günstige Modifikation des Simplexalgorithmus. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 3-10. (Author's summary) 35 #3865

Bemerkungen zu einem Optimierungsproblem mit stückweise linearer unstetiger Zielfunktion und linearen Nebenbedingungen. *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg* M1 (1968/69), 37-44. (H. Künzi) 39 #5129

Ein Erweiterungsprinzip als Konzeption zur Lösung kombinatorischer Optimierungsprobleme. (English and Russian summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 4, 265-280. (D. W. Walkup) 44 #3696

Schochetman, Irwin

Dimensionality and the duals of certain locally compact groups. *Proc. Amer. Math. Soc.* 26 (1970), 514-520. (Ş. Strătilă) 42 #418

Topology and the duals of certain locally compact groups. *Trans. Amer. Math. Soc.* 150 (1970), 477-489. (L. N. Argabright) 42 #422

Nets of subgroups and amenability. *Proc. Amer. Math. Soc.* 29 (1971), 397-403. (B. Schreiber) 43 #7551

Schock, Eberhard

* Über einige lineare Räume von nichtlinearen Abbildungen. Forschungsberichte des Landes Nordrhein-Westfalen, Nr. 1868. *Westdeutscher Verlag, Cologne,* 1967. 41 *pp.* (F. Smithies) 37 #1959

Der diametrale Folgenraum eines nuklearen lokalkonvexen Raumes. *Forschungsberichte des Landes Nordrhein-Westfalen, No.* 1931, *pp.* 9-15. *Westdeutscher Verlag, Cologne,* 1968. (W. H. Ruckle) 38 #4949

Beste Approximation von Elementen eines nuklearen Raumes. *J. Approximation Theory* 1 (1968), *no.* 1, 77-84. (E. J. Akutowicz) 37 #5590

Lineare Approximationsoperatoren in *(M)*-Räumen. *J. Approximation Theory* 1 (1968), 365-373. (G. Albinus) 41 #5859 (E)

* (with Fenske, Christian) Über die diametrale Dimension von lokalkonvexen Räumen. BMwF-GMD-10(b). *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1969. ii + *pp.* 13-22. (A. Pietsch) 41 #2344

* *(F)*-Räume mit *p*-absoluter Basis. BMwF-GMD-10(c). *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1969. ii + *pp.* 23-28. (A. Pietsch) 41 #2345

Bemerkung zu: "Lineare Approximationsoperatoren in *(M)*-Räumen". *J. Approximation Theory* 2 (1969), 450. (J. Blatter) 42 #756

Über kompakte Endomorphismen eines nuklearen Raumes. *J. Reine Angew. Math.* 238 (1969), 14-18. (A. Pietsch) 40 #6230

Montel-Räume von Hölder-stetigen Funktionen. *J. Reine Angew. Math.* 239/240 (1969), 20-23. (J. D. Pryce) 41 #803

Modifizierte Ritz-Verfahren. (English summary) *Computing (Arch. Elektron. Rechnen)* 7 (1971), 46-52. (A. Lee) 44 #4886

Über die Konvergenzgeschwindigkeit projektiver Verfahren. *Math. Z.* 120 (1971), 148-156. (W. C. Rheinboldt) 44 #825

Schock, Rolf

On the logic of variable binders. *Arch. Math. Logik Grundlagenforsch.* 6, 71-90 (1964). (J. R. Shoenfield) 31 #34

On finitely many-valued logics. *Logique et Analyse (N.S.)* 7 (1964), 43-58. (A. Rose) 31 #1186

On denumerably many-valued logics. *Logique et Analyse (N.S.)* 7 (1964), 190-195. (A. Rose) 31 #1187

Contributions to syntax, semantics, and the philosophy of science. *Notre Dame J. Formal Logic* 5 (1964), 241-289. (H. Ribeiro) 34 #4105

On definitions. *Arch. Math. Logik Grundlagenforsch.* 8, 28-44 (1965). (J. Tucker) 31 #3304

Another proof of the strong Löwenheim-Skolem theorem. *Logique et Analyse (N.S.)* 8 (1965), 30-38. (Walter Oberschelp) 33 #21

Some theorems on the relative strengths of many-valued logics. *Logique et Analyse (N.S.)* 8 (1965), 101-104. (B. Lercher) 34 #5665

On probability logics. *Notre Dame J. Formal Logic* 6 (1965), 129-134. (Walter Oberschelp) 33 #4960

On induction. *Notre Dame J. Formal Logic* 6 (1965), 235-240. (J. E. Fenstad) 34 #7378

A simple version of the generalized continuum hypothesis. *Notre Dame J. Formal Logic* 7 (1966), 287-288. 35 #65

* Logics without existence assumptions. *Almqvist & Wiksell, Stockholm,* 1968. 134 *pp.* (N. B. Cocchiarella) 39 #3973

* New foundations for concept theory. Library of Theoria, No. 12. *C. W. K. Gleerup, Lund,* 1969. 76 *pp.* (N. B. Cocchiarella) 41 #8221

Schoeller, Colette

Γ-*H*-algèbres sur un corps. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A655-A658. (K.-T. Chen) 37 #280

Homologie des anneaux locaux noethériens. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A768-A771. (K.-T. Chen) 37 #281

Étude de quelques invariants des anneaux locaux noethériens. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A820-A821. (K.-T. Chen) 37 #282

Étude de la catégorie des algèbres de Hopf commutatives connexes sur un corps. (English summary) *Manuscripta Math.* 3 (1970), 133-155. (R. G. Larson) 43 #7424

Schoeman, Marius Johannes

* The group of neat extensions. (Dutch summary) Doctoral dissertation, Technical University of Delft. *Technische Hogeschool Delft, Delft,* 1970. vi + 48 *pp. (loose errata)* (I. D. Macdonald) 44 #2830

Schoen, Kenneth

Fifth and sixth order PECE algorithms with improved stability properties. *SIAM J. Numer. Anal.* 8 (1971), 244-248. (T. E. Hull) 44 #3497

Schoenberg, Isaac J.

On interpolation by spline functions and its minimal properties. *On Approximation Theory (Proceedings of Conference in Oberwolfach,* 1963*), pp.* 109-129. *Birkhäuser, Basel,* 1964. (J. R. Rice) 31 #5015

Arithmetic problems concerning Cauchy's functional equation. *Compositio Math.* 16, 169-175 (1964). (S. L. Segal) 30 #3322

(with Pisot, Ch.) Arithmetic problems concerning Cauchy's functional equation. *Illinois J. Math.* 8 (1964), 40-56. (S. L. Segal) 30 #3321

On trigonometric spline interpolation. *J. Math. Mech.* 13 (1964), 795-825. (J. R. Rice) 29 #2589

A note on the cyclotomic polynomial. *Mathematika* 11 (1964), 131-136. (H. Schwerdtfeger) 30 #1122

Spline functions and the problem of graduation. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 947-950. (J. R. Rice) 29 #5040

Extremum problems for mass-distributions in a finite interval. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 279-290. (E. P. Merkes) 32 #4487

(with Cunningham, F., Jr.) On the Kakeya constant. *Canad. J. Math.* 17 (1965), 946-956. (G. C. Shephard) 31 #6163

(with Pisot, Ch.) Arithmetic problems concerning Cauchy's functional equation. II. *Illinois J. Math.* 9 (1965), 129-136. (S. L. Segal) 30 #3323

Extrema for gap power series of positive real part. *J. Analyse Math.* 14 (1965), 379-391. (M. Reade) 31 #3583

On monosplines of least deviation and best quadrature formulae. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 144-170. (R. A. Valentin) 34 #2182

(with Curry, H. B.) On Pólya frequency functions. IV. The fundamental spline functions and their limits. *J. Analyse Math.* 17 (1966), 71-107. (J. R. Rice) 36 #1884

On Hermite-Birkhoff interpolation. *J. Math. Anal. Appl.* 16 (1966), 538-543. (Yasuhiko Ikebe) 34 #3160

(with Marsden, Martin) On variation diminishing spline approximation methods. *Mathematica (Cluj)* 8(31) (1966), 61-82. (H. Werner) 35 #4648 (with Einhorn, S. J.) On euclidean sets having only two distances between points. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 479-488. (L. M. Blumentahl) 34 #6644

(with Einhorn, S. J.) On euclidean sets having only two distances between points. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 489-504. (L. M. Blumenthal) 34 #6645

On monosplines of least square deviation and best quadrature formulae. II. *SIAM J. Numer. Anal.* 3 (1966), 321-328. (J. R. Rice) 34 #3170

On spline functions. With a supplement by T. N. E. Greville. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio,* 1965*), pp.* 255-291. *Academic Press, New York,* 1967. (J. R. Rice) 36 #6848

(with Zaremba, S. K.) On Cauchy's lemma concerning convex polygons. *Canad. J. Math.* 19 (1967), 1062-1071. (D. W. Walkup) 35 #7199

On the Ahlberg-Nilson extension of spline interpolation: The g-splines and their optimal properties. *J. Math. Anal. Appl.* 21 (1968), 207-231. (R. A. Valentin) 36 #6849

On spline interpolation at all integer points of the real axis. Colloquium on the Theory of Approximation of Functions (Cluj, 1967). *Mathematica (Cluj)* 10(33) (1968), 151-170. (Z. Ziegler) 38 #6274

Monosplines and quadrature formulae. *Theory and Applications of Spline Functions (Proceedings of Seminar, Math. Research Center, Univ. of Wisconsin, Madison, Wis.,* 1968*), pp.* 157-207. *Academic Press, New York,* 1969. (J. W. Jerome) 39 #3202

(See also Approximations with special emphasis on spline functions, 40 #4638)

On spline interpolation at all integer points of the real axis. *Seminaire Delange-Pisot-Poitou:* 1967/68, *Theorie des Nombres, Fasc.* 1, *Exp.* 1, 18 *pp. Secrétariat mathematique, Paris,* 1969. (J. R. Rice) 41 #691

Spline interpolation and the higher derivatives. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 279-295. *Plenum, New York,* 1969. (J. W. Jerome) 41 #5848

Cardinal interpolation and spline functions. *J. Approximation Theory* 2 (1969), 167-206. (F. Perrin) 41 #2266

Linkages and distance geometry. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 43-52. (R. J. Bumcrot) 39 #7512

Linkages and distance geometry. II. On sets of $n + 2$ points in E_n that are most nearly equilateral. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 53-63. (R. J. Bumcrot) 40 #1895

A second look at approximate quadrature formulae and spline interpolation. *Advances in Math.* 4, 277-300 (1970). (A. K. Varma) 41 #8895

(with Ziegler, Zvi) On cardinal monosplines of least L_∞-norm on the real axis. *J. Analyse Math.* 23 (1970), 409-436. (F. Perrin) 43 #782

(with Sharma, A.) The interpolatory background of the Euler-Maclaurin quadrature formula. *Bull. Amer. Math. Sco.* 77 (1971), 1034-1038. (R. D. Riess) 44 #4446

On equidistant cubic spline interpolation. *Bull. Amer. Math. Soc.* 77 (1971), 1039-1044. (L. L. Schumaker) 43 #7819

Schoene, Andrew Y.

Semi-groups and a class of singular perturbation problems. *Indiana Univ. Math. J.* 20 (1970/71), 247-263. (K. Gustafson) 44 #852

Schoeneberg, Bruno

Über die Eisensteinschen Reihen von Primzahlstufe. *Abh. Math. Sem. Univ. Hamburg* 26 (1963/64), 145-154. (M. Eichler) 32 #1174

Emil Artin. *Mitt. Math. Gesellsch. Hamburg* 9, *no.* 3, 30-31 (1966). (Editors) 33 #3876

Verhalten von speziellen Integralen 3. Gattung bei Modultransformationen und verallgemeinerte Dedekindsche Summen. *Abh. Math. Sem. Univ. Hamburg* 30 (1967), 1-10. (K. G. Ramanathan) 35 #6624

Bemerkungen über einige Klassen von Modulformen. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 177-182. (E. Grosswald) 35 #1560

Über das unendliche Produkt $\Pi_{k=1}^{\infty}(i-x^k)$. *Mitt. Math. Gesellsch. Hamburg* 9, *no.* 4, 4-11 (1968). (O. H. Körner) 38 #125

Schoenfeld, Lowell

(with Dixon, R. D.) The size of the Riemann zeta-function at places symmetric with respect to the point 1/2. *Duke Math. J.* 33 (1966), 291-292. (O. H. Körner) 32 #7517

(with Boas, R. P., Jr.) Indefinite integration by residues. *SIAM Rev.* 8 (1966), 173-183. (F. Herzog) 34 #2844

(with Harris, Bernard) The number of idempotent elements in symmetric semigroups. *J. Combinatorial Theory* 3 (1967), 122-135. (B. Gordon) 35 #2754; errata, 35, p. 1578 (E)

(with Mann, H. B.; Mitchell, Josephine) Properties of differential forms in n real variables. *Pacific J. Math.* 21 (1967), 525-529. (J. Friberg) 35 #5762

(with Mann, H. B.; Mitchell, Josephine) Correction to: "Properties of differential forms in n real variables". *Pacific J. Math.* 23 (1967), 631. (Editors) 36 #1832

An improved estimate for the summatory function of the Möbius function. *Acta Arith.* 15 (1968/69), 221-233. (R. A. MacLeod) 39 #2716

(with Harris, Bernard) Asymptotic expansions for the coefficients of analytic functions. *Illinois J. Math.* 12 (1968), 264-277. (E. Grosswald) 37 #400

(with Harris, Bernard) Erratum to: "The number of idempotent elements in symmetric semi-groups". *J. Combinatorial Theory* 5 (1968), 104. (Editors) 37 #1492

On the differentiability of indeterminate quotients. *Math. Mag.* 41 (1968), 152-155. (Editors) 38 #2264

(with Mann, H. B.; Mitchell, Josephine) A new proof of the maximum principle for doubly-harmonic functions. *Pacific J. Math.* 27 (1968), 567-571. (R. M. Hervé) 39 #469

(with Rosser, J. Barkley; Yohe, J. M.) Rigorous computation and the zeros of the Riemann zeta-function. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol. 1: Mathematics, Software, pp.* 70-76. *North-Holland, Amsterdam,* 1969. (Authors' summary) 41 #2892

Zur Theorie der verallgemeinerten Dedekindschen Modulfunktionen. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1969, 119-128. (J. Spilker) 42 #7595

(with Harris, Bernard) A composition theorem for the enumeration of certain subsets of the symmetric semigroup. *Graph Theory and its Applications (Proc. Advanced Sem., Math. Research Center, Univ. of Wisconsin, Madison, Wis.,* 1969*), pp.* 215-254. *Academic Press, New York,* 1970. (N. J. A. Sloane) 42 #2947

Concerning Whitney's representations of differentiable even and odd functions. *Duke Math. J.* 37 (1970), 311-313. (G. V. Welland) 41 #7038

Schodpf, Hans-Georg See Schöpf, Hans-Georg.

Schoenwaelder, Ulrich

Normale Komplemente zu nilpotenten Hall-Untergruppen. *Arch. Math. (Basel)* 19 (1968), 361-377. (J. E. Rosenblade) 39 #301

Centralizers of abelian, normal subgroups of hypercyclic groups. *Pacific J. Math.* 31 (1969), 197-208. (J. L. Alperin) 40 #7357

On the existence of normal subgroups containing their centralizer. *Trans. Amer. Math. Soc.* 145 (1969), 159-169. (H. Lausch) 40 #2760

(with Held, Dieter) A characterization of the simple group M_{24}. *Math. Z.* 117 (1970), 289-308. (L. Dornhoff) 43 #339

Schoepfle, Gregory K.

(with Basmann, R. L.; Brown, Franklin Lee; Dawes, William S.) Exact finite sample density functions of GCL estimators of structural coefficients in a leading exactly identifiable case. *J. Amer. Statist. Assoc.* 66 (1971), 122-126. 43 #1299

Schofield, Peter

On a correspondence between many-valued and two-valued logics. *Z. Math. Logik Grundlagen Math.* 10 (1964), 265-274. (A. Rose) 30 #15

Complete subsets of mappings over a finite domain. *Proc. Cambridge Philos. Soc.* 62 (1966), 597-611. (J. R. Büchi) 34 #2449

Independent conditions for completeness of finite algebras with a single generator. *J. London Math. Soc.* 44 (1969), 413-423. (A. Rose) 39 #1305

Schofield, R.

Products of linear forms. *Proc. Cambridge Philos. Soc.* 60 (1964), 1032-1033. (A. Evyatar (Gutwirth)) 29 #5813

Schogin, I. I. See Žogin, I. I..

Scholomiti, N. C.

A property of the τ-function. *Amer. Math. Monthly* 72 (1965), 745-747. (Editors) 32 #2370.

Scholtz, Robert A.

(with Golomb, S. W.) Generalized Barker sequences. *IEEE Trans. Information Theory* IT-11 (1965), 533-537. (Authors' summary) 32 #7342

(with Weber, C. L.) Signal design for phase-incoherent communications. *IEEE Trans. Information Theory* IT-12 (1966), 456-463. (Authors' summary) 40 #3984

Maximal and variable word-length comma-free codes. *IEEE Trans. Information Theory* IT-15 (1969), 300-306. (Author's summary) 40 #3986

(with Storwick, Robert M.) Block codes for statistical synchronization. *IEEE Trans. Information Theory* IT-16 (1970), 432-438. (Authors' summary) 42 #7400

(with Welch, Lloyd R.) Mechanization of codes with bounded synchronization delays. *IEEE Trans. Information Theory* IT-16 (1970), 438-446. (Authors' summary) 42 #7401

Scholz, D. R.

(with Johnson, L. W.) On Steffensen's method. *SIAM J. Numer. Anal.* 5 (1968), 296-302. (J. W. Daniel) 37 #3734

Scholz, S.

Fehlereingrenzungen bei Anfangswertproblemen gewöhnlicher Differentialgleichungen 1. Ordnung. *Z. Angew. Math. Mech.* 48 (1968), 203-207. (C. Froese Fischer) 38 #2952

Ein Runge-Kutta-Verfahren mit variablem Parameter α. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 517-524. (F. J. Murray) 40 #6780

Schomblond, Ch.

(with Géhéniau, J.) Fonctions de Green dans l'univers de de Sitter. (English summary) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 1147-1157. (Authors' summary) 39 #2419

(with Cahen, M.; Géhéniau, J.; Günther, M.) Fonctions de Green de l'équation de Dirac dans l'univers de de Sitter. (English summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 325-333. (M. Sachs) 43 #8332

Schönbeck, Sten Olof

Extension of nonlinear contractions. *Bull. Amer. Math. Soc.* 72 (1966), 99-101. (D. G. de Figueiredo) 37 #1960

On the extension of Lipschitz maps. *Ark. Mat.* 7, 201-209 (1967). (D. Dean) 39 #3297

Schöne, Wolfgang

Zur Theorie der Distanz- und Stützfunktionen. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 8 (1966), 257-258. (G. D. Chakerian) 38 #647

Über eine Verallgemeinerung der Minkowskischen Distanzfunktion und ihre Anwendung in der Finslerschen Geometrie. *Math. Nachr.* 40 (1969), 305-325. (E. T. Davies) 40 #3484

Schönefeld, R.

Die Anwendung der Empfindlichkeitsanalysis bei der kontinuierlichen Parameteridentifizierung dynamischer Systeme. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 201-206. (From the author's introduction) 42 #7318

Schonefeld, Steven

Schauder bases in spaces of differentiable functions. *Bull. Amer. Math. Soc.* 75 (1969), 586-590. (V. Krishnamurthy) 39 #6067

Schönemann, Peter H.

A generalized solution of the orthogonal Procrustes problem. *Psychometrika* 31 (1966), 1-10. (C. G. Khatri) 35 #6705

Varisim: A new machine method for orthogonal rotation. *Psychometrika* 31 (1966), 235-248. (P. S. Dwyer) 34 #896

On two-sided orthogonal procrusters problems. *Psychometrika* 33 (1968), 19-33. (P. S. Dwyer) 37 #1064

Schönfeld, P.

Some duality theorems for the non-linear vector maximum problem. (German summary) *Unternehmensforschung* 14 (1970), 51-63. (K. Swarup) 44 #1443

Schönhage, Arnold

Zur Konvergenz des Jacobi-Verfahrens. *Numer. Math.* 3 (1961), 374-380. (P. Henrici) 31 #4168

Optimale Punkte für Differentiation und Integration. *Numer. Math.* 5 (1963), 303-331. (G. Meinardus) 29 #1481

Zur quadratischen Konvergenz des Jacobi-Verfahrens. *Numer. Math.* 6 (1964), 410-412. (James H. Wilkinson) 30 #4378

Multiplikation grosser Zahlen. (English summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 182-196. (G. R. Stibitz) 34 #8676

Lebesguekonstanten bei numerischer Differentiation. *Math. Z.* 94 (1966), 79-83. (Carl de Boor) 34 #3161

Zur Ränderzuordnung beim Riemannschen Abbildungssatz. *Math. Ann.* 179 (1969), 97-100. (J. E. McMillan) 39 #1662

Mehrdimensionale Romberg-Integration. (English summary) *Numer. Math.* 14 (1969/70), 299-304. (Author's summary) 41 #6399

Von den ganzen zu den reellen Zahlen. *Math.-Phys. Semesterber.* 17 (1970), 88-96. 41 #5186

* Approximationstheorie. *Walter de Gruyter & Co., Berlin-New York*, 1971. 212 *pp.* (P. L. Butzer and E. Görlich) 43 #3693

(with Lorenz, Falko) Über ein zahlentheoretisches Problem zus der Fourieranalysis. *Math. Z.* 120 (1971), 369-372. (E. W. Cheney) 44 #5684

Schönheim, J.

(with Hanani, H.) On Steiner systems. *Israel J. Math.* 2 (1964), 139-142. (S. S. Shrikhande) 31 #73

On coverings. *Pacific J. Math.* 14 (1964), 1405-1411. (S. S. Shrikhande) 30 #1954

(with Hanani, H.) Addendum: "On Steiner systems". *Israel J. Math.* 4 (1966), 144. (Editors) 34 #72

On maximal systems of *k*-tuples. *Studia Sci. Math. Hungar.* 1 (1966), 363-368. (L. Carlitz) 34 #2485

Conversion of modular numbers to their mixed radix representation by a matrix formula. *Math. Comp.* 21 (1967), 253-257. (H. B. Mann) 36 #7296

On linear and nonlinear single-error-correcting *q*-nary perfect codes. *Information and Control* 12 (1968), 23-26. (Author's summary) 38 #5517

On the number of mutually disjoint triples in Steiner systems and related maximal packing and minimal covering systems. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics*, 1968*), pp.* 311-318. *Academic Press, New York*, 1969. (E. F. Assmus, Jr.) 40 #5457

(See also Combinatorial structures and their applications, 41 #8247)

(with Marica, J.) Incomplete diagonals of Latin squares. *Canad. Math. Bull.* 12 (1969), 235. (A. Sade) 40 #55

(with Marica, J.) Differences of sets and a problem of Graham. *Canad. Math. Bull.* 12 (1969), 635-637. (E. C. Milner) 40 #2633

(with Sauer, Norbert) Maximal subsets of a given set having no triple in common with a Steiner triple system on the set. *Canad. Math. Bull.* 12 (1969), 777-778. (E. F. Assmus, Jr.) 40 #5456

Semilinear codes and some combinatorial applications of them. *Information and Control* 15 (1969), 61-66. (E. F. Assmus, Jr.) 40 #8494

(with Burshtein, N.) On a conjecture concerning exactly covering systems of congruences. *Israel J. Math.* 8 (1970), 28-29. (L. Mirsky) 41 #3370

(with Erdős, P.; Herzog, M.) An extremal problem on the set of noncoprime divisors of a number. *Israel J. Math.* 8 (1970), 408-412. (H. J. Godwin) 43 #178

(with Herzog, M.) Linear and nonlinear single-error-correcting perfect mixed codes. *Information and Control* 18 (1971), 364-368. (G. M. Tenengol'c) 43 #8434

Schönheinz, Hartmut

(with Schmidt, Jochen W.) Fehlerschranken für die genäherte Lösung von Rand- und Eigenwertaufgaben bei gewöhnlichen Differentialgleichungen durch Differenzenverfahren. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach*, 1966*), pp.* 125-140. *Birkhäuser, Basel*, 1968. (A. R. Mitchell) 42 #5457

Eigenwerteinschliessung bei gewöhnlichen Differentialgleichungen über ein Differenzenverfahren. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 141-150. (Author's summary) 39 #2338

Schoomer, B. Alva

The incorporation of step functions and ramp functions into a linear programming model. *Operations Res.* 12 (1964), 773-777. (Author's summary) 30 #963

Schoonmaker, N. James

(See Selected papers on calculus, 40 #270)

van Schooten, Frans

* (See Hofmann, Joseph Ehrenfried, 29 #2152 and Viète, François, 42 #16)

Schöpf, Hans-Georg

Allgemeinrelativistische Prinzipien der Kontinuumsmechanik. *Ann. Physik* (7) 12 (1963/64), 377-395. (C. B. Rayner) 29 #4580

Clebsch-Transformationen in der allgemeinen Relativitätstheorie. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 41-55. (W. Rindler) 29 #5609

Bewegte anisotrope Dielektrika in relativistischer Sicht. *Ann. Physik* (7) 13 (1964), 41-52. (N. D. Sengupta) 31 #6642

Die Lagrangeschen Koordinaten als Feldvariable in der allgemeinrelativistischen Kontinuumsmechanik. *Ann. Physik* (7) 14 (1964), 121-124. 32 #7192

Field and particle aspects in relativistic continuum mechanics. *Satyendranath Bose 70th Birthday Commemoration Volume, Part II, pp.* 227-244. *Prof. S. N. Bose 70th Birthday Celebration Committee, Calcutta*, 1966. (C. B. Rayner) 35 #2609

Bezugssysteme in der Einsteinschen und Newtonschen Raumzeit. *Math. Nachr.* 38 (1968), 181-196. (C. W. Kilmister) 38 #6826

Schopp, J.

Über die Newtonsche Zahl einer Scheibe konstanter Breite. *Studia Sci. Math. Hungar.* 5 (1970), 475-478. (C. M. Petty) 44 #3200

Schori, Richard M.

A universal snake-like continuum. *Proc. Amer. Math. Soc.* 16 (1965), 1313-1316. (R. Bennett) 32 #1682

Inverse limits and homogeneity. *Trans. Amer. Math. Soc.* 124 (1966), 533-539. (R. Bennett) 33 #6574

Hyperspaces and symmetric products of topological spaces. *Fund. Math.* 63 (1968), 77-88. (K. Nagami) 38 #661

(with Anderson, R. D.) A factor theorem for Fréchet manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 53-56. (M. G. Murdeshwar) 38 #1704

(with Anderson, R. D.) Factors of infinite-dimensional manifolds. *Trans. Amer. Math. Soc.* 142 (1969), 315-330. (J. Bochnak) 39 #7631

(with Henderson, David W.) Topological classification of infinite dimensional manifolds by homotopy type. *Bull. Amer. Math. Soc.* 76 (1970), 121-124. (D. E. Sanderson) 40 #4976

Topological stability for infinite-dimensional manifolds. *Compositio Math.* 23 (1971), 87-100. (D. E. Sanderson) 44 #4789

Schörnig, G.

Herleitung gewisser Klassen von autonomen ganzrationalen Differentialgleichungen 1. Ordnung mit konstanten Koeffizienten im kritischen Fall rein imaginärer Eigenwerte, für die die Nullösung stets stabil ist. I, II. (English summary) *Elektron. Datenverarbeitung* 6 (1964), 205-212; *ibid*, 6 (1964), 270-279. (R. Manohar) 31 #3674 chorr, Benno

Ein gemischtes Anfangs-Randwert-problem mit teilweise freiem Rand. *Z. Angew. Math. Mech.* 44 (1964), *suppl.*, T68-T70. (C. S. Morawetz) 34 #7108

Das Anfangs-Randwertproblem eines dünnen Profils in kompressibler Unterschallströmung. (English summary) *Z. Angew. Math. Phys.* 18 (1967), 149-164. (E. V. Laitone) 35 #5183

chorr, H.

(with McCluskey, E. J., Jr.) Essential multiple-output prime implicants. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp.* 437-457. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.,* 1963. (A. P. Ershov) 30 #3004

chorr-Con, Jacques J.

(See Pogorzelski, W., 34 #1811)

Schotsmans, L.

(with De Meersman, R.) Note on the inversion of symmetric matrices by the Gauss-Jordan method. *ICC Bull.* 3 (1964), 152-155. (A. S. Householder) 30 #3569

(with Buyst, L.) A method of gaussian type for the numerical integration of oscillating functions. *ICC Bull.* 3 (1964), 210-214. (Authors' summary) 30 #1610

(with van Leuven, P.) Numerical evaluation of the uncertainty relation for angular variables. *Nuovo Cimento* (10) 39 (1965), 776-779. (J. Mathews) 33 #3604

Schott, Hermann F.

Generalizability of the propositional and predicate calculi to infinite-valued calculi. *Notre Dame J. Formal Logic* 11 (1970), 107-128. (A. Rose) 44 #6441

Schotte, K. D.

(with Schotte, U.) Threshold behavior of the X-ray spectra of light metals. *Phys. Rev.* (2) 185 (1969), 509-517. (S. Ueno) 41 #4990

Schotte, U.

(with Schotte, K. D.) Threshold behavior of the X-ray spectra of light metals. *Phys. Rev.* (2) 185 (1969), 509-517. (S. Ueno) 41 #4990

Schottlaender, Stefan

Reihenentwicklung analytischer Funktionen nach Orthogonalpolynomen mit *k*-strahligem Stern. *Math. Ann.* 150 (1963), 361-386. (K. Endl) 31 #5020

Reihen mit vorgeschriebenem Konvergenzgebiet. *Math. Ann.* 156 (1964), 171-191. (K. Endl) 31 #3758

(with Quade, Wilhelm) Über implizite Funktionen. *Math. Z.* 89 (1965), 137-180. (R. P. Boas, Jr.) 31 #3557

Funktionen mit potenzreihenartiger Darstellung. *Math. Ann.* 174 (1967), 143-147. (T. Kövari) 36 #1619

Schouten, J. A.

* (with v. d. Kulk, W.) Pfaff's problem and its generalizations. *Chelsea Publishing Co., New York,* 1969. xvi + 542 *pp.* (Editors) 40 #427

Schrack, Günther Friedemann

* Lower bounds to the abscissa of stability of stable polynomials. (German and French summaries) A dissertation submitted to the Swiss Federal Institute of Technology, Zürich, for the degree of Doctor of Mathematics. *Fotokruck Frau Elly Huth, Tübingen,* 1967. 77 *pp.* (R. S. L. Srivastava) 38 #6035

Schrader, Keith W.

(with Jackson, Lloyd) On second order differential inequalities. *Proc. Amer. Math. Soc.* 17 (1966), 1023-1027. (M. M. Peixoto) 34 #401

(with Jackson, Lloyd K.) Comparison theorems for nonlinear differential equations. *J. Differential Equations* 3 (1967), 248-255. (Wolfdietrich Müller) 34 #6206

Boundary-value problems for second-order ordinary differential equations. *J. Differential Equations* 3 (1967), 403-413. (M. Wachman) 35 #6893

A note on second order boundary value problems. *Amer. Math. Monthly* 75 (1968), 867-869. (A. M. Krall) 38 #3503

Solutions of second order ordinary differential equations. *J. Differential Equations* 4 (1968), 510-518. (J. W. Bebernes) 37 #6527

A note on second order differential inequalities. *Proc. Amer. Math. Soc.* 19 (1968), 1007-1012. (Jagdish Chandra) 38 #2416

Existence theorems for second order boundary value problems. *J. Differential Equations* 5 (1969), 572-584. (P. Waltman) 39 #532

(with Waltman, Paul) An existence theorem for nonlinear boundary value problems. *Proc. Amer. Math. Soc.* 21 (1969), 653-656. (J. W. Heidel) 39 #533

(with Jackson, Lloyd) Subfunctions and third order differential inequalities. *J. Differential Equations* 8 (1970), 180-194. (J. W. Bebernes) 41 #2175

(with Jackson, Lloyd) Existence and uniqueness of solutions of boundary value problems for third order differential equations. *J. Differential Equations* 9 (1971), 46-54. (P. B. Bailey) 42 #4813

A pointwise convergence theorem for sequences of continuous functions. *Trans. Amer. Math. Soc.* 159 (1971), 155-163. (F. P. Cass) 43 #6621

Schrader, Robert

(with Joos, H.) On the primitive characters of the Poincaré group. *Lectures in Theoret. Phys., Vol. VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo.,* 1964), *pp.* 87-106. *Univ. Colorado Press, Boulder, Colo.,* 1965. (K. Hepp) 33 #3608

(with Albeverio, S.; Hunziker, W.; Schneider, Walter) A note on L. D. Faddeev's three-particle theory. *Helv. Phys. Acta* 40 (1967), 745-748. (W. Güttinger) 36 #3548

(with Joos, H.) On the primitive characters of the Poincaré group. *Comm. Math. Phys.* 7 (1968), 21-50. (R. Cirelli) 37 #2900

(See also Martin, André, 41 #4942)

Ground states in classical lattice systems with hard core. *Comm. Math. Phys.* 16 (1970), 247-264. (H. Araki) 43 #8324

A remark on Yukawa plus boson selfinteraction in two space time dimensions. *Comm. Math. Phys.* 21 (1971), 164-170. (W. Faris) 44 #6274

Schrage, Linus E.

(with Ignall, Edward) Application of the branch and bound technique to some flow-shop scheduling problems. *Operations Res.* 13 (1965), 400-412. (R. L. Graves) 33 #1140

(with Miller, Louis W.) The queue *M/G/*1 with the shortest remaining processing time discipline. *Operations Res.* 14 (1966), 670-684. 33 #3376

An alternative proof of a conservation law for the queue *G/G/*1. *Operations Res.* 18 (1970), 185-187. (P. E. Ney) 42 #3883

Schramm, Matthias

Steps towards the idea of function: A comparison between Eastern and Western science of the Middle Ages. Some further remarks on A. C. Crombie's ***Augustine to Galileo.*** *Hist. of Sci.* 4 (1965), 70-103. (R. Rashed) 43 #11

Schrank, Glen

(with Thompson, James) Algebraic classification of four-dimensional Riemann spaces. *J. Mathematical Phys.* 10 (1969), 766-770. (N. Rosen) 39 #4789

Schreiber, Bert M.

(with Robertson, Lewis) The additive structure of integer groups and *p*-adic number fields. *Proc. Amer. Math. Soc.* 19 (1968), 1453-1456. (K. A. Ross) 37 #6394

On the coset ring and strong Ditkin sets. *Pacific J. Math.* 32 (1970), 805-812. (G. P. Johnson) 41 #4140

(with Itô, Takashi) Multiplicative properties of Jensen measures. *Proc. Amer. Math. Soc.* 26 (1970), 305-306. (D. R. Arterburn) 41 #7438

(with Rajagopalan, M.) Ergodic automorphisms and affine transformations. *Proc. Japan Acad.* 46 (1970), 633-636. (A. S. Gleit) 43 #7589

Measures with bounded convolution powers. *Trans. Amer. Math. Soc.* 151 (1970), 405-431. (B. R. Gelbaum) 41 #8931

(with Sun, T.-C.; Bharucha-Reid, A. T.) Algebraic models for probability measures associated with stochastic processes. *Trans. Amer. Math. Soc.* 158 (1971), 93-105. (Y.-K. Chan) 43 #5565

Schreiber, Heinz H.

Bandwidth requirements for Walsh functions. *Applications of Walsh Functions (Proc. Sympos. and Workshop, Naval Research Lab., Washington, D. C.,* 1970), *pp.* 46-51. *Naval Research Lab., Washington, D. C.,* 1970. (From the author's introduction) 42 #2863

Bandwidth requirements for Walsh functions. *IEEE Trans. Information Theory* IT-16 (1970), 491-493. (F. C. Hsiang) 42 #8158

Schreiber, Jean-Pierre

Fonction de Peano et dimension de Hausdorff. *Enseignement Math.* 13 (1967), 325-328 (1968). (C. R. Borges) 38 #3838

Application de la méthode d'Yves Meyer à une caractérisation des nombres de Pisot-Salem-Chabauty de Q_p. *Séminaire Delange-Pisot-Poitou:* 1968/69, *Théorie des Nombres, Fasc.* 2, *Exp.* 20, 11 *pp. Secrétariat mathématique, Paris,* 1969. (J. Chauvineau) 41 #6823

(with Meyer, Y.) Quelques fonctions moyennes-périodiques non bornées. (English summary) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 1, 231-236, xi. (E. Følner) 40 #3176

Sur les nombres de Chabauty-Pisot-Salem des extensions algébriques de Q_p. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A71-A73. (J. Chauvineau) 40 #7231

Sur la notion de modèles dans les groupes abéliens localement compacts. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A30-A32. (Author's summary) 43 #816

Schreiber, Michel

Fermeture en probabilité des chaos de Wiener. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A859-A861. (Harry I. Cohn) 36 #5996

* (with Dacunha-Castelle, D.; Revuz, D.) Recueil de problèmes de calcul des probabilités. Deuxième édition, revue et augmentée. Préfaces de A. Tortrat. *Masson et Cie, Éditeurs, Paris,* 1970. xii + 234 *pp.* (F. Sales Vallés) 42 #6884; erratum, 43, p. 1697

Schreiber, Morris

Remark on a paper of Kalisch. *J. Math. Anal. Appl.* 7 (1963), 62-63. (G. K. Kalisch) 29 #2679

(with McKean, H. P., Jr.; Weiss, G. H.) Isoperimetric problem with application to the figure of cells. *J. Mathematical Phys.* 6 (1965), 479-484. (F. Supnick) 30 #4194

(with Targonski, Gy.) Carleman and semi-Carleman operators. *Proc. Amer. Math. Soc.* 24 (1970), 293-299. (M. J. Fisher) 40 #7889

Schreiber, Peter

Untersuchungen über die Modelle der Typentheorie. *Z. Math. Logik Grundlagen Math.* 11 (1965), 343-372. (E.-J. Thiele) 34 #5654

Über die Entbehrlichkeit von Hilfsbuchstaben bei der Berechnung mehrstelliger Wortfunktionen durch Markowsche Algorithmen. *Z. Math. Logik Grundlagen Math.* 12 (1966), 241-242. (Arnold Oberschelp) 34 #2455

Normale Algorithmen ohne abbrechende Regeln. *Z. Math. Logik Grundlagen Math.* 13 (1967), 189-191. (G. Asser) 35 #6558

Lexikographische Ordnung als Grundbegriff der Semiotik. *Math. Nachr.* 38 (1968), 53-60. (W. Schwabhäuser) 38 #4292

Über die Quantorenbasen der klassischen Prädikatenlogik. *Z. Math. Logik Grundlagen Math.* 15 (1969), 77-80. (M. R. Krom) 39 #1288

Schreibmann, V. I.

(with Ždanov, M. S.) Correlation technique for the separation of gravitational fields. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1969, 94-101 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1969, 532-536. (G. E. Backus) 43 #1593

Schreiner, Erik A.

Modular pairs in orthomodular lattices. *Pacific J. Math.* 19 (1966), 519-528. (D. J. Foulis) 34 #4176

Schreiner, R. N.

(with Christensen, R. M.) Response to pressurization of a viscoelastic cylinder with an eroding internal boundary. *AIAA J.* 3 (1965), 1451-1455. 32 #668

Schrieffer, J. Robert

* Theory of superconductivity. *W. A. Benjamin, Inc., New York-Amsterdam,* 1964. xiii + 282 *pp.* (M. J. Stephen) 34 #7165

Schröder, Eberhard

Überdeckungskurven. *Wiss. Z. Techn. Univ. Dresden* 12 (1963), 1613-1626. (K. Strubecker) 29 #2692

Projektive Ebenen mit pappusschen Geradenpaaren. *Arch. Math. (Basel)* 19 (1968), 325-329. (G. J. Schellekens) 37 #6832

Darstellung der Gruppenräume Minkowskischer Ebenen. *Arch. Math. (Basel)* 21 (1970), 308-316. (F. A. Sherk) 42 #3663

Zur lokalen Approximation einer Raumkurve. *Elem. Math.* 25 (1970), 126-129. (H. Brauner) 43 #3930

Schröder, Ernst

* Vorlesungen über die Algebra der Logik (exakte Logik). Band I. *Chelsea Publishing Co., New York,* 1966. ix + 721 *pp. (1 plate)* (Editors) 33 #1219

* Vorlesungen über die Algebra der Logik (exakte Logik). Band II. Herausgegeben von Eugen Müller. *Chelsea Publishing Co., New York,* 1966. xxiv + 605 *pp. (1 plate)* (Editors) 33 #1220

* Vorlesungen über die Algebra der Logik (exakte Logik). Band III. Algebra und Logik der Relative. Anhang: Abriss der Algebra der Logik von Eugen Müller. *Chelsea Publishing Co., New York,* 1966. vi + 819 *pp. (1 plate)* (Editors) 33 #1221

(See also Ibragimov, S. G., 36 #1309)

Schröder, Gerhard

* Über die Konvergenz einiger Jacobi-Verfahren zur Bestimmung der Eigenwerte symmetrischer Matrizen. Forschungsberichte des Landes Nordrhein-Westfalen, No. 1291. *Westdeutscher Verlag, Cologne,* 1964. 59 *pp.* (James H. Wilkinson) 31 #2825

Schröder, Johann

Differential inequalities and error bounds. *Error in Digital Computation, Vol. 2 (Proc. Sympos. Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis., 1965), pp.* 141-179. *Wiley, New York,* 1965. (L. Collatz) 32 #4874

Randwertaufgaben vierter Ordnung mit positiver Greenscher Funktion. *Math. Z.* 90 (1965), 429-440. (M. Ráb) 32 #2661

Hinreichende Bedingungen bei Differentialungleichungen vierter Ordnung. *Math. Z.* 92 (1966), 75-94. (M. Ráb) 33 #4367

Operator-Ungleichungen und ihre numerische Anwendung bei Randwertaufgaben. *Numer. Math.* 9 (1966), 149-162. (H. J. Stetter) 36 #2333

(with Sherbourne, A. N.) A general variational theorem in classical plasticity. *J. Math. and Phys.* 46 (1967), 175-187. (S. Drobot) 35 #6406

Zusammenhängende Mengen inverspositiver Differentialoperatoren vierter Ordnung. *Math Z.* 96 (1967), 89-110. (M. Ráb) 34 #6202

Ungleichungen und Fehlerabschätzungen. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 101-129. *Izdat. "Mir", Moscow,* 1968. (L. Collatz) 38 #2973

Monotonie-Aussagen bei quasilinearen elliptischen Differentialgleichungen und anderen Problemen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach, 1966), pp.* 341-361. *Birkhäuser, Basel,* 1968. (H. F. Weinberger) 43 #5743

On linear differential inequalities. *J. Math. Anal. Appl.* 22 (1968), 188-216. (H. J. Stetter) 36 #6982

Factorization of polynomials by generalized Newton procedures. *Constructive Aspects of the Fundamental Theorem of Algebra (Proc. Sympos., Zürich-Rüschlikon, 1967), pp.* 295-320. *Wiley-Interscience, New York,* 1969. (J. G. Herriot) 41 #1213

A note concerning propositions in quantum mechanics. *Ann. Physik* (7) 25 (1970/71), 243-245. (M. J. Mączyński) 42 #8783

Proving inverse-positivity of linear operators by reduction. *Numer. Math.* 15 (1970), 100-108. (E. Schock) 42 #2308

Range-domain implications for concave operators. *J. Math. Anal. Appl.* 33 (1971), 1-15. (A. McIntosh) 44 #5839

Schröder, Kurt

Dirichlets Leistungen auf dem Gebiet der Analysis und der Mechanik. *Bericht von der Dirichlet-Tagung, pp.* 3-11. *Akademie-Verlag, Berlin,* 1963. 30 #4655

(See also Beiträge zur Spannungs- und Dehnungsanalyse. I., 32 #8581; Beiträge zur Spannungs- und Dehnungsanalyse. II, 33 #3856; and Mihlin, S. G., 40 #6746)

Schröder, Max E.

(with Jensen, Ronald Björn) Mengeninduktion und Fundierungsaxiom. *Arch. Math. Logik Grundlagenforsch.* 12 (1969), 119-133. (M. S. Popadić) 42 #2934

Hierarchien primitiv-rekursiver Funktionen im Transfiniten. *Arch. Math. Logik Grundlagenforsch.* 13 (1970), 114-133. (A. Lévy) 43 #7332

Schröder, U.

Lokalisierte Zustände und Teilchenbild bei relativistischen Feldtheorien. *Ann. Physik* (7) 14 (1964), 91-112. (H. Araki) 31 #4409

Schrödinger, Erwin

(See Schrödinger-Planck-Einstein-Lorentz: Briefe zur Wellenmechanik, 29 #5531)

Schroeder, Johann. See Schröder, Johann.

Schroeder, Roger G.

Linear programming solutions to ratio games. *Operations Res.* 18 (1970), 300-305. (Author's summary) 41 #8040

Schroedinger, E. See Schrödinger, Erwin.

Schroer, B.

The concept of nonlocalizable fields and its connection with nonrenormalizable field theories. *J. Mathematical Phys.* 5 (1964), 1361-1367. (H. Araki) 29 #4470

Some remarks on non-renormalizable quantum field theories. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste, 1965), pp.* 295-303. *International Atomic Energy Agency, Vienna,* 1965. (A. Lewis Licht) 34 #5431

(with Langerholc, J.) On the structure of the von Neumann algebras generated by local functions of the free Bose field. *Comm. Math. Phys.* 1 (1965), 215-239. (R. Haag) 32 #5117

(with Bardakci, K.) Local approximation in renormalizable and nonrenormalizable theories. I, II. *J. Mathematical Phys.* 7 (1966), 10-15, 16-26. (K. Hepp) 33 #3627

Schrot, Mary Dolorès

Pseudo-valuations sur les corps globaux. *Séminaire Delange-Pisot-Poitou: 1966/67, Théorie des Nombres, Fasc.* 2, *Exp.* 14, 10 *pp. Secrétariat mathématique, Paris,* 1968. (E. H. Batho) 40 #144

Pseudo-valuations sur les domaines de Dedekind. *Séminaire Delange-Pisot-Poitou: 1966/67, Théorie des Nombres, Fasc.* 2, *Exp.* 10, 7 *pp. Secrétariat mathématique, Paris,* 1968. (E. H. Batho) 40 #145

Schröter, J.

(with Ludwig, G.; Müller, W. J. C.) A derivation of Boltzmann's equation with an assumption of determinacy. I. *Physica* 30 (1964), 479-492. (Authors' summary) 29 #998

A master equation for gases. *Physica* 31 (1965), 1-32. (O. Onicescu) 33 #2344

(with Ludwig, G.; Müller, W. J. C.) A derivation of Boltzmann's equation with an assumption of determinacy. II. *Physica* 31 (1965), 1649-1672. (S. Fujita) 34 #1056

(with Weström, M.) Canonical transformations in quantum mechanics. *Ann. Physik* (7) 26 (1971), 59-65. (H. Araki) 43 #7172

(with Weström, M.) Time-dependent coordinate transformations. *Ann. Physik* (7) 26 (1971), 66-72. (H. Araki) 43 #7173

Schrutka v. Rechtenstamm, Guntram

Tabelle der (Relativ)-Klassenzahlen der Kreiskörper, deren ϕ-Funktion des Wurzelexponenten (Grad) nicht grösser als 256 ist. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1964, *no.* 2, 64 *pp.* 29 #4918

Schryer, N. L.

Newton's method for convex nonlinear elliptic boundary value problems. *Numer. Math.* 17 (1971), 284-300. (J. R. Kuttler) 44 #7775

Schubert, C. F.

(with Hurd, A. E.) An approach to quasilinear elliptic problems. *Bull. Amer. Math. Soc.* 70 (1964), 732-736. (G. Geymonat) 30 #345

Solution of a generalized Schroeder equation in two variables. *J. Austral. Math. Soc.* 4 (1964), 410-417. (P. E. Guenther) 33 #4327

(with Goldberg, Seymour) Some applications of the theory of unbounded operators to ordinary differential equations. *J. Math. Anal. Appl.* 19 (1967), 78-92. (T. Kato) 35 #5978

On the existence of continuous inverses of constant coefficient differential operators. *J. Differential Equations* 7 (1970), 1-23. (D. E. Edmunds) 40 #4816

(with Iha, Franklin T.) The spectrum of partial differential operators on $L^p(R^n)$. *Trans. Amer. Math. Soc.* 152 (1970), 215-226. (H.-W. Rohde) 42 #5103

Schubert, Hans

(See Beiträge zur Analysis und angewandten Mathematik, 39 #1256)

Einige Hilfssätze der ebenen Potentialtheorie. *Arch. Math. (Brno)* 5 (1969), 215-225. (A. Dinghas) 44 #6985

(with Schleiff, M.) Über zwei Randwertprobleme des inhomogenen Systems der Cauchy-Riemannschen Differentialgleichungen mit einer Anwendung auf ein Problem der stationären schallnahen Strömung. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 621-630. (H. Widom) 40 #6038

Schubert, Horst

* Topologie. Eine Einführung. Mathematische Leitfäden. *B. G. Teubner Verlagsgesellschaft, Stuttgart*, 1964. 327 *pp.* (D. B. A. Epstein) 30 #551

(with Soltsien, Kay) Isotopie von Flächen in einfachen Knoten. *Abh. Math. Sem. Univ. Hamburg* 27 (1964), 116-123. (R. H. Fox) 29 #4053

Knoten. *Jber. Deutsch. Math.-Verein.* 69, *Heft* 4, *Abt.* 1, 184-190 (1967/68). (Editors) 37 #3554

* Topology. Translated from the German by Siegfried Moran. *Allyn and Bacon, Inc., Boston, Mass.*, 1968. 358 *pp.* (Editors) 37 #2160

* Topologie. Eine Einführung. Zweite durchgesehene Auflage. *B. G. Teubner, Stuttgart*, 1969. 328 *pp.* (Editors) 40 #1957

* Kategorien, I, II. Heidelberger Taschenbücher, Bände 65, 66. *Springer-Verlag, Berlin-New York*, 1970. *Vol. I:* ix + 160 *pp.*; *Vol. II:* viii + 148 *pp.* (H. Gonshor) 43 #311

Schubert, L. K.

Modification of a quasi-Newton method for nonlinear equations with a sparse Jacobian. *Math. Comp.* 24 (1970), 27-30. (Author's summary) 41 #2923

Schubert, Max

Mittlere Information bei Systemen mit kontinuierlichen Eigenwertspektren. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 13 (1964), 249-251. (F. Jelinek) 32 #3724

Schubert, S. Roy

(with Day, George W.) On perfect mappings. *Amer. Math. Monthly* 71 (1964), 411-412. (D. G. Bourgin) 29 #591

Schucany, W. R.

The Gegenbauer function. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 349-351. (S. K. Chatterjea) 36 #6669

(with Gray, H. L.) Some limiting cases of the *G*-transformation. *Math. Comp.* 23 (1969), 849-859. (C. Fox) 41 #4800

Some limiting forms of the *G*-transformation and their application to the calculation of tail probabilities. *Proc. Sympos. on Empirical Bayes Estimation and Computing in Statistics (Texas Tech. Univ., Lubbock, Texas, 1969)*, pp. 218-236. *Texas Tech. Press, Lubbock, Tex.*, 1970. (H. L. Harter) 42 #3887

Schuck, P.

(with Ethofer, S.) The six-point Green function and the application of Faddeev's theory to the many-body problem. *Z. Physik* 228 (1969), 264-285. (S. N. Biswas) 43 #5830

Schücking, Engelbert L.

(with Ozsváth, I.) An anti-Mach metric. *Recent developments in general relativity, pp.* 339-350. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw*, 1962. (F. A. E. Pirani) 29 #2015

(with Ozsváth, István) The finite rotating universe. *Ann. Physics* 55 (1969), 166-204. (G. R. Allcock) 40 #5240

Schue, John R.

The structure of hyperreducible triangular algebras. *Proc. Amer. Math. Soc.* 15 (1964), 766-772. (M. Nakamura) 29 #3897

Symmetry for the enveloping algebra of a restricted Lie algebra. *Proc. Amer. Math. Soc.* 16 (1965), 1123-1124. (G. Leger) 32 #2515

Cartan decompositions for Lie algebras of prime characteristic. *J. Algebra* 11 (1969), 25-52. (G. B. Seligman) 38 #201; erratum, 38, p. 1378 (E)

Erratum: "Cartan decompositions for Lie algebras of prime characteristic". *J. Algebra* 13 (1969), 588. (V. K. Balachandran) 40 #197

Schuermans, N. Hasselle. See Hasselle-Schuermans, N.

Schuh, Frederik

Arithmetical problems of terminal digits of products. (Dutch) *Simon Stevin* 36 (1963), 105-121. (N. G. de Bruijn) 32 #5583a

Arithmetical problems of terminal digits of products. II. (Dutch) *Simon Stevin* 37 (1963/64), 3-19. (N. G. de Bruijn) 32 #5583b

(with Oswald, F. M.) The problem of the false coin. (Dutch) *Nieuw Tijdschr. Wisk.* 52 (1964/65), 248-256. (H. S. M. Coxeter) 32 #4024

(with Fokker, Adriaan D.) On the loci of intersections of certain focal radii in two confocal ellipses. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 548-553. (O. Bottema) 32 #1599

(with Fokker, Adriaan D.) On focal coupling of pairs of opposite vertices in complete quadrilaterals. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 23-32. (H. R. Müller) 35 #863

Schukowski, W. J. See Žukovskiĭ, V. I.

Schulenberger, John R.

Uniqueness theorems for a class of wave propagation problems. *Arch. Rational Mech. Anal.* 34 (1969), 70-84. (Wallace L. Anderson) 40 #3790

The Green's matrix for steady state wave propagation in a class of inhomogeneous anisotropic media. *Arch. Rational Mech. Anal.* 34 (1969), 380-402. (J. W. Craggs) 40 #1066

(with Wilcox, Calvin H.) The singularities of the Green's matrix in anisotropic wave motion. *Indiana Univ. Math. J.* 20 (1970/71), 1093-1117. (Teruo Ikebe) 44 #7156

(with Wilcox, Calvin H.) A Rellich uniqueness theorem for steady-state wave propagation in inhomogeneous anisotropic media. *Arch. Rational Mech. Anal.* 41 (1971), 18-45. (D. L. Russell) 43 #712

(with Wilcox, Calvin H.) The limiting absorption principle and spectral theory for steady-state wave propagation in inhomogeneous anisotropic media. *Arch. Rational Mech. Anal.* 41 (1971), 46-65. (D. L. Russell) 43 #713

(with Wilcox, Calvin H.) Completeness of the wave operators for perturbations of uniformly propagative systems. *J. Functional Analysis* 7 (1971), 447-474. (J. Smoller) 43 #978

Schüler, W.

Multistage sampling procedures based on prior distributions and costs. *Ann. Math. Statist.* 38 (1967), 464-470. (L. A. Aroian) 34 #6965

Schülke, Lothar

The SU_6 Clebsch-Gordan coefficients for the reduction of (35) $\otimes$ (35) to (35), and (56) $\otimes$ (35) to (56). *Z. Physik* 183 (1965), 424-427. (L. O'Raifeartaigh) 32 #901

Predictions for the weak leptonic baryon form factors from the hybrid group $SU_3 \otimes SU_3 \otimes U_1$. *Z. Physik* 191 (1966), 209-216. (K. Kawarabayashi) 32 #8812

Schull, William J.

(with Ito, Koichi) On the robustness of the T_0^2 test in multivariate analysis of variance when variance-covariance matrices are not equal. *Biometrika* 51 (1964), 71-82. (M. H. Rizvi) 30 #4342

Schulman, L. S.

A path integral for spin. *Phys. Rev.* (2) 176 (1968), 1558-1569. (R. Delbourgo) 38 #5440

Relativistic spin: Tops and wave equations. *Nuclear Phys.* B18 (1970), 595-606. (K. J. Le Couteur) 44 #1364

(with Hamilton, John F., Jr.) Path integrals and product integrals. *J. Mathematical Phys.* 12 (1971), 160-164. (G. W. Johnson) 43 #4373

(with McLaughlin, David W.) Path integrals in curved spaces. *J. Mathematical Phys.* 12 (1971), 2520-2524. (D. ter Haar) 44 #6247

Schulte, Dieter

* Kombinatorische und sequentielle Netzwerke: Grundlagen und Anwendungen der Automatentheorie. Beihefte zur Zeitschrift "Elektronische Rechenanlagen", Band 11. *R. Oldenbourg Verlag, Munich-Vienna*, 1967. 229 *pp.* (J. Kuntzmann) 36 #1239

Schulte, Hermann

* Ein Operatorenkalkül zur Lösung gewöhnlicher und partieller Differenzengleichungssysteme von Funktionen diskreter Veränderlicher und seine Anwendungen. Forschungsberichte des Landes Nordrhein-Westfalen, Nr. 1557. *Westdeuscher Verlag, Cologne,* 1965. 53 *pp.* (L. Berg) 33 #511

* Ein direkter zweidimensionaler Operatorenkalkül zur Lösung partieller Differenzengleichungen und seine Anwendung bei der numerischen Lösung partieller Differentialgleichungen. Forschungsberichte des Landes Nordrhein-Westfalen, Nr. 1800. *Westdeutscher Verlag, Cologne,* 1967. 70 *pp.* (T. Fort) 35 #4622

Schultz, D. G.

The generation of Liapunov functions. *Advances in Control Systems, Vol.* 2, *pp.* 1-64. *Academic Press, New York,* 1965. (Wolfdietrich Müller) 35 #1371

Schultz, Konrad

Zur Darstellung der intuitionistischen Mathematik im Rahmen eines Beweisbarkeitskalküls. *Monatsb. Deutsch. Akad. Wiss. Berlin* 8 (1966), 399-402. (D. Nelson) 35 #6525

Spreadtheorie und intuitionistische Topologie. *Z. Math. Logik Grundlagen Math.* 13 (1967), 251-264. (B. van Rootselaar) 35 #6526

Speziestheorie und intuitionistische Topologie. *Z. Math. Logik Grundlagen Math.* 13 (1967), 377-378. (B. van Rootselaar) 36 #36

Keine kontingenten Identitäten in Lemmons modaler Mengenlehre. *Z. Math. Logik Grundlagen Math.* 16 (1970), 261-262. (I. Ruzsa) 43 #6063

Modelle modaler Mengenlehren. *Z. Math. Logik Grundlagen Math.* 16 (1970), 327-339. (F. R. Drake) 44 #3849

Schultz, Martin H.

(with Menger, Karl) Postulates for the substitutive algebra of the 2-place functors in the 2-valued calculus of propositions. *Notre Dame J. Formal Logic* 4 (1963), 188-192. (B. A. Galler) 29 #4669

(with Lees, M.) A Leray-Schauder principle for A-compact mappings and the numerical solution of non-linear two-point boundary value problems. *Numerical Solutions of Nonlinear Differential Equations (Proc. Adv. Sympos., Madison, Wis., 1966), pp.* 167-179. *John Wiley & Sons, Inc., New York,* 1966. (H. J. Stetter) 35 #819

On the stability of discretizations. *Bull. Amer. Math. Soc.* 72 (1966), 950-953. (J. C. Butcher) 34 #3797

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of higher-order accuracy for nonlinear boundary value problems. I. One dimensional problem. *Numer. Math.* 9 (1966/67), 394-430. (F. Perrin) 36 #4813

A generalization of the Lax equivalence theorem. *Proc. Amer. Math. Soc.* 17 (1966), 1034-1035. (J. Horváth) 33 #6421

Difference methods for Cauchy problems in S'. *J. Math. Mech.* 16 (1967), 1117-1129. (J. Gil de Lamadrid) 35 #6981

(with Varga, R. S.) L-splines. *Numer. Math.* 10 (1967), 345-369. (A. Sharma) 37 #665

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of higher-order accuracy for non-linear two-point boundary value problems. (French summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No.* 165, *Besançon,* 1966 *), pp.* 217-225. *Éditions Centre Nat. Recherche Sci., Paris,* 1968. (G. N. Lance) 38 #1837

Quasi-linear elliptic boundary value problems. *J. Math. Mech.* 18 (1968/69), 21-25. (C. Clark) 37 #3197

A priori bounds for solutions of quasi-linear elliptic differential equations. *J. Math. Mech.* 18 (1968/69), 27-31. (H. Beckert) 37 #3183

(with Birkhoff, G.; Varga, R. S.) Piecewise Hermite interpolation in one and two variables with applications to partial differential equations. *Numer. Math.* 11 (1968), 232-256. (F. Perrin) 37 #2404

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of high-order accuracy for nonlinear boundary value problems. II. Nonlinear boundary conditions. *Numer. Math.* 11 (1968), 331-345. (F. Perrin) 37 #4965

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of high-order accuracy for nonlinear boundary value problems. III. Eigenvalue problems. *Numer. Math.* 12 (1968), 120-133. (F. Perrin) 38 #1838

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of high-order accuracy for nonlinear boundary value problems. IV. Periodic boundary conditions. *Numer. Math.* 12 (1968), 266-279. (F. Perrin) 39 #2337

Multivariate spline functions and elliptic problems. *Approximations with Special Emphasis on Spline Functions (Proc. Sympos. Univ. of Wisconsin, Madison, Wis., 1969), pp.* 279-347. *Academic Press, New York,* 1969. (F. Perrin) 41 #2210

(with Herbold, R. J.; Varga, R. S.) The effect of quadrature errors in the numerical solution of boundary value problems by variational techniques. *Aequationes Math.* 3 (1969), 247-270. (F. Stenger) 41 #6410

Multivariate L-spline interpolation. *J. Approximation Theory* 2 (1969), 127-135. (F. Perrin) 40 #3138

Error bounds for the Rayleigh-Ritz-Galerkin method. *J. Math. Anal. Appl.* 27 (1969), 524-533. (F. Perrin) 40 #3731

The Galerkin method for nonselfadjoint differential equations. *J. Math. Anal. Appl.* 28 (1969), 647-651. (G. N. Lance) 39 #7828

(with Ciarlet, P. G.; Varga, R. S.) Numerical methods of high-order accuracy for nonlinear boundary value problems. V. Monotone operator theory. *Numer. Math.* 13 (1969), 51-77. (F. Perrin) 40 #3730

L^∞-multivariate approximation theory. *SIAM J. Numer. Anal.* 6 (1969), 161-183. (J. R. Rice) 40 #4639a

L^2-multivariate approximation theory. *SIAM J. Numer. Anal.* 6 (1969), 184-209. (J. R. Rice) 40 #4639b

L^2-approximation theory of even order multivariate splines. *SIAM J. Numer. Anal.* 6 (1969), 467-475. (L. L. Schumaker) 41 #1193

Rayleigh-Ritz-Galerkin methods for multidimensional problems. *SIAM J. Numer. Anal.* 6 (1969), 523-538. (P. G. Ciarlet) 41 #7859

Approximation theory of multivariate spline functions in Sobolev spaces. *SIAM J. Numer. Anal.* 6 (1969), 570-582. (D. C. Handscomb) 41 #7823

The condition number of a class of Rayleigh-Ritz-Galerkin matrices. *Bull. Amer. Math. Soc.* 76 (1970), 840-844. (D. M. Young, Jr.) 43 #4276

Elliptic spline functions and the Rayleigh-Ritz-Galerkin method. *Math. Comp.* 24 (1970), 65-80. (J. Milota) 41 #9448

Error bounds for polynomial spline interpolation. *Math. Comp.* 24 (1970), 507-515. (Author's summary) 43 #783

Cauchy problems in S'. *Indiana Univ. Math. J.* 20 (1970/71), 57-67. (W. Watzlawek) 41 #5767

Schultz, Peter R.

An optimal control problem with state vector measurement errors. *Advances in Control Systems, Vol. 1, pp.* 197-243. *Academic Press, New York,* 1964. (A. W. Naylor) 32 #1056

Schultz, Phillip

Periodic homomorphism sequences of abelian groups. *Arch. Math. (Basel)* 21 (1970), 132-135. (K. Honda) 42 #3173

Schultz, Reinhard E.

Smooth structures on $S^p \times S^q$. *Ann. of Math.* (2) 90 (1969), 187-198. (R. De Sapio) 40 #3560

Smoothings of sphere bundles over spheres in the stable range. *Invent. Math.* 9 (1969/70), 81-88. (R. De Sapio) 41 #1063

Semifree circle actions and the degree of symmetry of homotopy spheres. *Amer. J. Math.* 93 (1971), 829-839. (Edgar H. Brown, Jr.) 44 #4752

The nonexistence of free S^1 actions on some homotopy spheres. *Proc. Amer. Math. Soc.* 27 (1971), 595-597. (M.-C. Ku) 42 #6866

Improved estimates for the degree of symmetry of certain homotopy spheres. *Topology* 10 (1971), 227-235. (Edgar H. Brown, Jr.) 44 #1052

On the inertia group of a product of spheres. *Trans. Amer. Math. Soc.* 156 (1971), 137-153. (R. K. Lashof) 43 #1209

Schultz, Theodore D.

(with Mattis, D. C.; Lieb, E. H.) Two-dimensional Ising model as a soluble problem of many fermions. *Rev. Modern Phys.* 36 (1964), 856-871. (R. B. Potts) 31# 4509

Schultze, Ernst

* Einführung in die mathematischen Grundlagen der Informationstheorie. Lecture Notes in Operations Research and Mathematical Economics, No. 9. *Springer-Verlag, Berlin-New York,* 1969. v + 116 *pp.* (F. Jelinek) 42 #4326

Schultz-Grunow, F.

Étude de la stabilité de l'écoulement de Couette. *Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech. No.* 129, *Paris,* 1963, 17-23. (Chia-Shun Yih) 33 #2071

(with Breuer, W.) Laminar boundary layers on cambered walls. *Basic Developments Fluid Dynam., Vol. I, pp.* 377-436. *Academic Press, New York,* 1965. (K. T. Yen) 33 #6938

Schulz, Gerhard

Nichtklassische Orthogonalsysteme von Polynomen. (Russian, English, and French summaries) *Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe* 11 (1962), 731-737. (Author's summary) 29 #1489

* (with Hebermehl, G.; Minkwitz, G.) Tabellen der Lommelschen Funktionen $U_1(w,z)$ und $U_2(w,z)$ zweier Veränderlicher sowie abgeleiteter Funktionen. Schriftenreihe Inst. Math. Deutsch. Wiss. Berlin Reihe B, Heft 2. *Akademie-Verlag, Berlin,* 1965. 164 *pp.* *(4 inserts)* (I. A. Stegun) 33 #1498

Schulz, Günther

Ein Lösungsalgorithmus für ein lineares mehrstufiges Transportproblem mit proportionalen Mengenänderungen. (English and Russian summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 3, 155-171. (M. Rössler) 43 #2977

Schulz, Ralph-Hardo

Über Blockpläne mit transitiver Dilatationsgruppe. *Math. Z.* 98 (1967), 60-82. (S. Priess-Crampe) 36 #2051

Über Translationsebenen mit Kollineationsgruppen, die die Punkte der ausgezeichneten Geraden zweifach transitiv permutieren. *Math. Z.* 122 (1971), 246-266. (G. Pickert) 44 #4633

Schulz-DuBois, E. O.

Integral relations among Bessel functions. *Math. Comp.* 23 (1969), 845-847. (Author's summary) 41 #2077

Foucault pendulum experiment by Kamerlingh Onnes and degenerate perturbation theory. *Amer. J. Phys.* 38 (1970), 173-188. (P. Hagedorn) 43 #7110

Schulze, Bernd

Einführung einer Halbordnung im Aussagenkalkül. *Z. Math. Logik Grundlagen Math.* 15 (1969), 25-35. (J. E. Fenstad) 39 #1285

Schulze, Dieter

(with Wintgen, G.) Kybernetische Probleme in der Ökonomie. *Math. und Wirtschaft* 2 (1964), 38-47. (Editors) 35 #5216

(with Wintgen, Georg) Kybernetische Probleme in der Ökonomie. (Russian, English and French summaries) *Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe* 12 (1963), 817-821. (Authors' summary) 35 #5217

Schulzer, M.

Contributions to the k-sample problem: A symmetric statistic. *Ann. Math. Statist.* 40 (1969), 1933-1949. (S. Panchapakesan) 44 #4853

Schumacher, D. See Schumacher, Dietmar.

Schumacher, D. L.

The direction of time and the equivalence of 'expanding' and 'contracting' world-models. *Proc. Cambridge Philos. Soc.* 60 (1964), 575-579. (C. Gilbert) 29 #2091

Schumacher, David P.

(with Hollingsworth, C. A.) Concerning the roots of a polynomial which contains a perturbation parameter. *J. Chem. Phys.* 41 (1964), 1109-1111. (Authors' summary) 29 #2963

Schumacher, Dietmar

Minimale und maximale Tripelerzeugende und eine Bemerkung zur Tripelbarkeit. *Arch. Math. (Basel)* 20 (1969), 356-364. (D. Pumplün) 41 #5451

Zur Existenz freier Algebren einer r-dimensionalen Theorie. (English summary) *Manuscripta Math.* 3 (1970), 227-236. (D. Pumplün) 44 #4070

Schumaker, Larry L.

(with Karlin, Samuel) Characterization of moment points in terms of Christoffel numbers. *J. Analyse Math.* 20 (1967), 213-231. (Bernard Harris) 36 #1933

(with Karlin, Samuel) The fundamental theorem of algebra for Tchebycheffian monosplines. *J. Analyse Math.* 20 (1967), 233-270. (G. G. Lorentz) 36 #582

(with Daniel, James W.; Pereyra, Víctor) Iterated deferred corrections for initial value problems. (Spanish summary) *Acta Ci. Venezolana* 19 (1968), 128-135. (M. Rama Mohana Rao) 40 #8270

Representation theorems for certain classes of generalized polynomials induced by Tchebycheff systems and applications to extremal Problems. *J. Analyse Math.* 21 (1968), 313-335. (A. Sharma) 41 #4089

Uniform approximation by Tchebycheffian spline functions. *J. Math. Mech.* 18 (1968/69), 369-377. (G. Meinardus) 39 #3203

Uniform approximation by Chebyshev spline functions. II. Free knots. *SIAM J. Numer. Anal.* 5 (1968), 647-656. (G. Meinardus) 39 #3204

(with Jerome, J. W.) A note on obtaining natural spline functions by the abstract approach of Atteia and Laurent. *SIAM J. Numer. Anal.* 5 (1968), 657-663. (D. E. Wulbert) 40 #6127

Approximation by splines. *Theory and Applications of Spline Functions (Proceedings of Seminar, Math. Research Center, Univ. Wisconsin, Madison, Wis., 1968), pp.* 65-85. *Academic Press, New York,* 1969. (K. R. Unni) 39 #686

Some algorithms for the computation of interpolating and approximating spline functions. *Theory and Applications of Spline Functions (Proceedings of Seminar, Math., Research Center, Univ. of Wisconsin, Madison, Wis., 1968), pp.* 87-102. *Academic Press, New York,* 1969. (K. R. Unni) 39 #687

(with Mangasarian, O. L.) Splines via optimal control. *Approximations with Special Emphasis on Spline Functions (Proc. Sympos. Univ. of Wisconsin, Madison, Wis., 1969), pp.* 119-156. *Academic Press, New York,* 1969. (P. J. Laurent) 41 #4073

(with Fitzgerald, Carl H.) A differential equation approach to interpolation at extremal points. *J. Analyse Math.* 22 (1969), 117-134. (T. J. Rivlin) 41 #2257

(with Jerome, J. W.) On *Lg*-splines. *J. Approximation Theory* 2 (1969), 29-49. (C. W. Clenshaw) 39 #3201

On the smoothness of best spline approximations. *J. Approximation Theory* 2 (1969), 410-418. (G. Meinardus) 41 #4076

(with Jerome, J. W.) Applications of ε-entropy to the computation of n-widths. *Proc. Amer. Math. Soc.* 22 (1969), 719-722. (L. Zalcman) 40 #614

(with Taylor, G. D.) On approximation by polynomials having restricted ranges. II. *SIAM J. Numer. Anal.* 6 (1969), 31-36. (C. W. Clenshaw) 41 #2260

(with Loeb, H. L.; Moursund, D. G.; Taylor, G. D.) Uniform generalized weight function polynomial approximation with interpolation. *SIAM J. Numer. Anal.* 6 (1969), 284-293. (D. C. Handscomb) 40 #3679

(with Jerome, J. W.) Characterizations of functions with higher order derivatives in $\mathcal{L}_p$. *Trans. Amer. Math. Soc.* 143 (1969), 363-371. (D. A. Sprecher) 41 #8600

Schumann, Winfried Otto

Über die Erzeugung schneller Teilchen durch elektromagnetische Wellen. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1962, *Abt. II,* 79-84 (1963). (H. G. Unger) 30 #1730

Schumer, Michael A.

Interpolation of a Gaussian Markov process. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp.* 812-813. *Univ. of Illinois, Urbana, Ill.,* 1968. (Author's summary) 42 #3959

Hill climbing on a sample function of a Gaussian Markov process. *J. Optimization Theory Appl.* 4 (1969), 413-418. (C. Mohan) 41 #1376

Schumitsky, Alan. See Schumitzky, Alan,

Schumitzky, Alan

Modulation products and optimum frequency conversion for an n-frequency input. *J. Soc. Indust. Appl. Math.* 13 (1965), 1019-1032. (L.-H. Zetterberg) 34 #7268

(See also Fuchs, W. H. J., 36 #3954)

(with Kagiwada, H. H.; Kalaba, R. E.) An initial-value method for Fredholm integral equations. *J. Math. Anal. Appl.* 19 (1967), 197-203. (S. Albertoni) 35 #6388

(with Kagiwada, H. H.; Kalaba, R. E.) An initial-value method for Fredholm integral equations with displacement kernels: Reflection functions. *Calcolo* 5 (1968), 63-72. (W. R. Boland) 42 #8729

On the equivalence between matrix Riccati equations and Fredholm resolvents. *J. Comput. System Sci.* 2 (1968), 76-87. (H. E. Fettis) 39 #3255

(with Kagiwada, Harriet; Kalaba, Robert) Differential systems for eigenvalues of Fredholm integral equations. *J. Math. Anal. Appl.* 23 (1968), 227-234. (S. Albertoni) 39 #3257

(with Kagiwada, H.; Kalaba, R. E.; Sridhar, R.) Cauchy and Fredholm methods for Euler equations. *J. Optimization Theory Appl.* 2 (1968), 157-163. (Authors' summary) 39 #3368

(with Kagiwada, H. H.; Kalaba, R. E.; Sridhar, R.) An integral equation and a representation for a Green's function. *J. Optimization Theory Appl.* 2 (1968), 226-229. 39 #3082

(with Kagiwada, H. H.; Kalaba, R. E.) A representation for the solution of Fredholm integral equations. *Proc. Amer. Math. Soc.* 23 (1969), 37-40. (H. E. Fettis) 39 #7363

(with McNabb, Alex) Factorization of operators. II. A nonlinear Volterra method for numerical solution of linear Fredholm equations. *J. Comput. System Sci.* 4 (1970), 103-128. (P. M. Anselone) 42 #8733

(with McNabb, A.) Factorization of operators. III. Initial value methods for linear two-point boundary value problems. *J. Math. Anal. Appl.* 31 (1970), 391-405. (P. M. Anselone) 42 #8734

Schumm, G. F.

A note on the structure of the power set. *Notre Dame J. Formal Logic* 9 (1968), 303-304. 39 #4013

On some open questions of B. Sobociński. *Notre Dame J. Formal Logic* 10 (1969), 261-262. (R. H. Thomason) 40 #4088

On a modal system of D. C. Makinson and B. Sobociński. *Notre Dame J. Formal Logic* 10 (1969), 263-265. (R. H. Thomason) 40 #4089

Schumpert, J. M.

(with Yau, S. S.) Stochastic approximation nonparametric training procedures for multi-category pattern classifiers. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967) pp.* 792-799. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8171

Schunck, Hermann

$\mathfrak{H}$-Untergruppen in endlichen auflösbaren Gruppen. *Math. Z.* 97 (1967), 326-330. (H. Nagao) 35 #254

Schupp, Paul E.

On Dehn's algorithm and the conjugacy problem. *Math. Ann.* 178 (1968), 119-130. (M. Greendlinger) 38 #5901

A note on recursively enumerable predicates in groups. *Fund. Math.* 66 (1969/70), 61-63. (F. B. Cannonito) 40 #4345

On the substitution problem for free groups. *Proc. Amer. Math. Soc.* 23 (1969), 421-423. (F. B. Cannonito) 39 #6963

On Greendlinger's lemma, *Comm. Pure Appl. Math.* 23 (1970), 233-240. (R. G. Burns) 41 #6947

On the conjugacy problem for certain quotient groups of free products. *Math. Ann.* 186 (1970), 123-129. (R. C. Lyndon) 41 #5475

(with Miller, Charles F., III) Embeddings into Hopfian groups. *J. Algebra* 17 (1971), 171-176. (F. B. Cannonito) 42 #4623

Schur, Friedrich

(See Dahija, S. A., 35 #7185)

Schur, Issai

* Vorlesungen über Invariantentheorie. Bearbeitet und herausgegeben von Helmut Grunsky. Die Grundlehren der mathematischen Wissenschaften, Band 153. *Springer-Verlag, Berlin-New York,* 1968. ix + 143 *pp.* (E. M. Bruins) 37 #5248

Schur, J. D.

Estimates of the exponential growth of solutions of the second-order linear differential equation. *J. Math. Anal. Appl.* 21 (1968), 7-9. (R. Reissig) 36 #1754

Schurer, Frans

On linear politive operators. (With discussion) *On Approximation Theory (Proceedings of Conference in Oberwolfach,* 1963*), pp.* 190-199. *Birkhäuser, Basel,* 1964. (P. C. Sikkema) 35 #7051

* On linear positive operators in approximation theory. Dissertation, Technological University of Delft, 1965. *Technische Hogeschool te Delft, Delft,* 1965. 79 *pp.* (G. Meinardus) 34 #6389

On the construction of linear positive operators in approximation theory. *Mathematica (Cluj)* 8(31) (1966), 365-371. (K. H. Usow) 35 #3333

(with Steutel, F. W.) On linear positive operators of the Jackson type. *Mathematica (Cluj)* 9(32) (1967), 155-184. (P. C. Sikkema) 36 #583

(with Cheney, E. W.) A note on the operators arising in spline approximation. *J. Approximation Theory* 1 (1968), *no.* 1, 94-102. (Z. Ziegler) 37 #5580

A note on interpolating periodic quintic splines with equally spaced nodes. *J. Approximation Theory* 1 (1968), 493-500. (D. Leviatan) 38 #6275

(with Cheney, E. W.) On interpolating cubic splines with equally-spaced nodes. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 517-524. (A. Meir) 40 #6129

* On interpolating periodic quintic spline functions with equally spaced nodes. T.H.-Report 69-WSK-01. *Department of Mathematics, Technological University Eindhoven, Eindhoven,* 1969. ii + 28 *pp.* (D. Leviatan) 39 #5993

(with Cheney, E. W.; Hobby, C. R.; Morris, P. D.; Wulbert, D. E.) On the minimal property of the Fourier projection. *Bull. Amer. Math. Soc.* 75 (1969), 51-52. (W. B. Jones) 38 #4883

(with Cheney, E. W.; Hobby, C. R.; Morris, P. D.; Wulbert, D. E.) On the minimal property of the Fourier projection. *Trans. Amer. Math. Soc.* 143 (1969), 249-258. (R. D. Ryan) 41 #704

* On natural cubic splines, with an application to numerical integration formulae. T.H.-Report 70-WSK-04. *Department of Mathematics, Technological University Eindhoven, Eindhoven,* 1970. i + 32 *pp.* (D. Leviatan) 42 #3473

A note on interpolating periodic quintic spline functions. *Approximation Theory (Proc. Sympos., Lancaster,* 1969*), pp.* 71-81. *Academic Press, London,* 1970. (C. de Boor) 42 #757

(with Cheney, E. W.) Convergence of cubic spline interpolants. *J. Approximation Theory* 3 (1970), 114-116. (A. Sharma) 40 #7680

Schurle, Arlo W.

Compactification of strongly countable dimensional spaces. *Bull. Amer. Math. Soc.* 73 (1967), 909-912. (A. Lelek) 36 #2117

Decompositions of E^3 into points and countably many trees. *Bull. Amer. Math. Soc.* 75 (1969), 422-425. (J. Martin) 38 #6565

Compactification of strongly countable-dimensional spaces. *Trans. Amer. Math. Soc.* 136 (1969), 25-32. (C. R. Borges) 38 #2740

Schurmann, Alfred

On the application of graph theory to determine the number of multisection loops in a program. *Algorytmy* 2, *no.* 3, 73-81 (1964). (M. Gross) 32 #619

The application of graphs to the analysis of distribution of loops in a program. *Information and Control* 7 (1964), 275-282. (A. M. Duguid) 30 #1633

The distribution of cycles in a finite graph and the application of graphs to computer programming. (Polish. English summary) *Algorytmy* 2, 85-100 (1965). (E. Seiden) 32 #6718

Distribution of circuits in a finite graph and application of graphs to programming theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 515-518. (R. M. Karp) 34 #7278

Schürmann, Jürgen

* (with Meyer-Brötz, Günter) Methoden der automatischen Zeichenerkennung. *Akademie-Verlag, Berlin,* 1970. 154 *pp.* (K. D. Günther) 43 #7268

Schürrer, Walter

Über die Existenz von endlosen nicht ebenen regulären ebenknotigen Rhombengitterstreifen. *Math. Ann.* 153 (1964), 299-349; *correction, ibid.* 164 (1966), 104. (H. R. Müller) 35 #4824

Symmetrie und Schiefsymmetrie bei Verknüpfungstafeln endlicher Halbgruppen und Gruppen. *Math.-Phys. Semesterber.* 17 (1970), 182-192. (W. E. Deskins) 42 #3198

Schuss, Zeev

A new proof of a theorem concerning the relationship between the Lebesgue integral and RC-integral. *J. London Math. Soc.* 44 (1969), 365-368. (S. J. Taylor) 38 #6020

(with Davies, Roy O.) A proof that Henstock's integral includes Lebesgue's. *J. London Math. Soc.* (2) 2 (1970), 561-562. (W. J. Wilbur) 42 #435

(with Friedman, Avner) Degenerate evolution equations in Hilbert spaces. *Trans. Amer. Math. Soc.* 161 (1971), 401-427. (C. R. Putnam) 44 #853

Schuster, Eugene F.

Estimation of probility density function and its derivatives. *Ann. Math. Statist.* 40 (1969), 1187-1195. (A. P. Basu) 40 #986

Note on the uniform convergence of density estimates. *Ann. Math. Statist.* 41 (1970), 1347-1348. (A. P. Basu) 42 #1264

Schuster, Hans Werner

Deformationen analytischer Algebren. *Invent. Math.* 6 (1968), 262-274. (H. Kerner) 38 #6107

Zur Theorie der Deformationen kompakter komplexer Räume. *Invent. Math.* 9 (1969/70), 284-294. (K. Peters) 42 #3818

Über die Starrheit kompakter komplexer Räume. (English summary) *Manuscripta Math.* 1 (1969), 125-137. (A. Nijenhuis) 40 #7478

Infinitesimale Erweiterungen komplexer Räume. *Comment. Math. Helv.* 45 (1970), 265-286. (Gerd Fischer) 43 #2243

Über den trivialen Ort von Deformationen komplexer Strukturen. *Math. Ann.* 194 (1971), 135-146. (H. Kerner) 44 #7601

Schuster, Seymour

(with Fort, M. K., Jr.) Convergence of series whose terms are defined recursively. *Amer. Math. Monthly* 71 (1964), 994-998. (T. A. Botts) 31 #1491

Axes of points of certain linear systems of polarities. *Canad. J. Math.* 19 (1967), 1072-1077. (G. J. Schellekens) 36 #773

(with Chartrand, Gary) On the existence of specified cycles in complementary graphs. *Bull. Amer. Math. Soc.* 77 (1971), 995-998. (V. Chvátal) 44 #6527

Schütt, Dieter

* Überblick über die algebraischen Theorien in der Automatentheorie. BNwF - GMD - No. 5. *Gesellschaft fur Mathematik und Datenverarbeitung, Bonn,* 1968. ii + 78 *pp.* (J. Hartmanis) 39 #8028

Zulässige Partitionen und Zustandsautomorphismen. *Z. Angew. Math. Mech.* 48 (1968), T123-T125. (J.-F. Perrot) 41 #1449

* Über Schieberegistergraphen und -realisierungen. BMBW-GMD-34. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1970. iii + 48 *pp.* (B. Reusch) 42 #9098

* (with Böhling, Karl Heinz) Endliche Automaten. II. B.I-Hochschulskripten, 704. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1970. vii + 104 *pp.* (H. Maurer) 43 #8463

Serienzerlegung deterministischer *(S)*-Systeme. *Z. Angew. Math. Mech.* 50 (1970), T85-T86. (J. Hartmanis) 42 #1606

Schütte, Ilse

Einige Eigenschaften der Lösungen der linearen Differentialgleichung zweiter Ordnung vom instabilen Typ mit nacheilendem Argument. (English, French and Russian summaries) *Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe* 15 (1966), 5-14. (Marko Švec) 34 #6251

Schütte, Karl

* Index of mathematical tables from all branches of sciences/ Index mathematischer Tafelwerke und Tabellen aus allen Gebieten der Naturwissenschaften. Second revised and greatly enlarged edition. *R. Oldenbourg, Munich-Vienna,* 1966. 239 *pp.* (Editors) 35 #2453

Schütte, Kurt

Predicative well-orderings. *Formal Systems and Recursive Functions (Proc. Eighth Logic Colloq., Oxford,* 1963*), pp.* 280-303. *North-Holland, Amsterdam,* 1965. (C. F. Kent) 33 #5466

Eine Grenze für die Beweisbarkeit der transfiniten Induktion in der verzweigten Typenlogik. *Arch. Math. Logik Grundlagenforsch.* 7, 45-60 (1965), (E. Mendelson) 33 #7240

(with Crossley, John N.) Non-uniqueness at ω^2 in Kleene's O. *Arch. Math. Logik Grundlagenforsch.* 9 (1966), 95-101. (J. R. Schoenfield) 35 #4101

* Vollständige Systeme modaler und intuitionistischer Logik. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 42. *Springer-Verlag, Berlin-New York,* 1968. vi + 87 *pp.* (A. Heyting) 37 #2587

(See also Contributions to mathematical logic (Proceedings of the Logic Colloquim, Hanover, 1966), 38 #3120.

Neuere Ergebnisse der Beweistheorie. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 130-138. *Izdat. "Mir", Moscow,* 1968. (G. Kreisel) 38 #2002

Zur Semantik der intuitionistischen Aussagenlogik. *Contributions to Math. Logic (Colloquium, Hanover,* 1966*), pp.* 231-235. *North-Holland, Amsterdam,* 1968. (A. S. Troelstra) 38 #5589

On simple type theory with extensionality. *Logic, Methodology and Philos. Sci. III (Proc. Third Internat. Congr., Amsterdam,* 1967*), pp.* 179-184. *North-Holland, Amsterdam,* 1968. (R. Parikh) 40 #4097

Ein konstruktives System von Ordinalzahlen. *Arch. Math. Logik Grundlagenforsch.* 11 (1968), 126-137. (S. Feferman) 40 #2534

Ein konstruktuves System von Ordinalzahlen. II. *Arch. Math. Logik Grundlagenforsch.* 12 (1969), 3-11. (S. Feferman) 40 #5418

(with Diller, Justus) Simultane Rekursionen in der Theorie der Funktionale endlicher Typen. *Arch. Math. Logik Grundlagenforsch.* 14 (1971), 69-74. (A. S. Troelstra) 43 #7294

(with Levitz, Hilbert) A characterization of Takeuti's ordinal diagrams of finite order. *Arch. Math. Logik Grundlagenforsch.* 14 (1971), 75-97. (A. Kino) 44 #2572

Schützenberger, Marcel-Paul

(with Eden, Murray) Remark on a theorem of Dénes. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 7 (1962), 353-355. (G. Sabidussi) 30 #1065

(with Lyndon, R. C.) The equation $a^M = b^N c^P$ in a free group. *Michigan Math. J.* 9 (1962), 289-298. (M. Greendlinger) 29 #142

Certain elementary families of automata. *Proc. Sympos. Math. Theory of Automata (New York,* 1962*), pp.* 139-153. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, New York,* 1963. (A. P. Ershov) 29 #5696

On context-free languages and push-down automata. *Information and Control* 6 (1963), 246-264. (J. C. Shepherdson) 29 #1109

Quelques remarques sur une construction de Schensted. *Math. Scand.* 12 (1963), 117-128. (W. E. Coppage) 32 #7433

On the synchronizing properties of certain prefix codes. *Information and Control* 7 (1964), 23-36. (From the author's introduction) 33 #7199

(with Larisse, J.) Sur certaines chaînes de Markov non homogènes. *Publ. Inst. Statist. Univ. Paris* 13 (1964), 57-66. (J. Wolfowitz) 31 #198

Sur certains sous-monoïdes libres. *Bull. Soc. Math. France* 93 (1965), 209-223. (R. J. Warne) 32 #7666

Sur une question concernant certains sous-monoïdes libres. *C. R. Acad. Sci. Paris* 261 (1965), 2419-2420. (B. Gordon) 32 #7364

On finite monoids having only trivial subgroups. *Information and Control* 8 (1965), 190-194. (L. C. Eggan) 31 #1154; erratum, 34, p. 1783

A remark on incompletely specified automata. *Information and Control* 8 (1965), 373-376. (Y. M. Chen) 32 #3970

On a factorisation of free monoids. *Proc. Amer. Math. Soc.* 16 (1965), 21-24. (K.-T. Chen) 30 #1205

Sur certaines variétés de monoïdes finis. *Automata Theory, pp.* 314-319. *Academic Press, New York,* 1966. (From the author's introduction) 34 #5592

On a family of sets related to McNaughton's L-language. *Automata Theory, pp.* 320-324. *Academic Press, New York,* 1966. (L. C. Eggan) 36 #2448

(with Larisse, J.) Sur certaines chaînes de Markov non-homogènes. *Automata Theory, pp.* 239-250. *Academic Press, New York,* 1966. (A. Fuchs) 36 #7209

(with Coudrain, Michel) Une condition de finitude des monoïdes finiment engendrés. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1149-A1151. (H. H. Campaigne) 33 #2742

(with Nivat, Maurice) Sur les produits semi-directs droits de monoïdes. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A659-A660. (E.-A. Behrens) 34 #4395

(with Dejean, F.) On a question of Eggan. *Information and Control* 9 (1966), 23-25. (From the authors' introduction) 32 #9164

On a question concerning certain free submonoids. *J. Combinatorial Theory* 1 (1966), 437-442. (B. Gordon) 36 #1234

(with Nivat, Maurice) Errata: "Sur les produits semi-directs droits de monoïdes". *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A383. (Editors) 35 #2983

On products of finite dimensional stochastic matrices. *Proc. Amer. Math. Soc.* 18 (1967), 850-853. (N. J. Pullman) 36 #6439

A remark on acceptable sets of numbers. *J. Assoc. Comput. Mach.* 15 (1968), 300-303. (S. Huzino) 38 #6910

On an enumeration problem. *J. Combinatorial Theory* 4 (1968), 219-221. (W. G. Brown) 36 #1344

Sur certains semi-groupes de matrices non negatives. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 265-269. (J. Wolfowitz) 37 #2788

(with Lentin, A.) A combinatorial problem in the theory of free monoids. *Combinatorial Mathematics and its Applications (Proc. Conf., Univ. North Carolina, Chapel Hill, N. C.,* 1967*), pp.* 128-144. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1969. (M. J. Dunwoody) 40 #4389

(with Eilenberg, Samuel) Rational sets in commutative monoids. *J. Algebra* 13 (1969), 173-191. (A. Shafaat) 40 #254

(See also Symposium on Automatic Demonstration, 42 #2716 and Séminaire M. P. Schützenberger, A. Lentin et M. Nivat, 43 #7278)

* (with Foata, Dominique) Théorie géométrique des polynômes eulériens. Lecture Notes in Mathematics, Vol. 138. *Springer-Verlag, Berlin-New York,* 1970. v + 94 *pp.* (David P. Roselle) 42 #7523

Une application de la théorie de la décomposition des monoïdes. *Séminaire M. P. Schützenberger, A. Lentin et M. Nivat,* 1969/70: *Problèmes Mathématiques de la Théorie des Automates, Exp.* 5, 4 *pp. Secrétariat mathématique, Paris,* 1970. (R. Renne) 43 #7532

Schützer, Walter

(with Machado, W. M.) Bopp's formulation of quantum mechanics & the Einstein-Podolski-Rosen paradox. *An. Acad. Brasil. Ci.* 35 (1963), 27-35. (A. Siegel) 29 #916

Schuur, J. D.

The existence of proper solutions of a second order ordinary differential equation. *Proc. Amer. Math. Soc.* 17 (1966), 595-597. (H. Hochstadt) 33 #324

The asymptotic behavior of a solution of the third order linear differential equation. *Proc. Amer. Math. Soc.* 18 (1967), 391-393. (W. Wasow) 35 #6936

Correction to: "The existence of proper solutions of a second order ordinary differential equation". *Proc. Amer. Math. Soc.* 19 (1968), 312-314. (H. Hochstadt) 36 #5417

Saddle-point type behavior for nonautonomous second order linear systems of ordinary differential equations. *SIAM J. Appl. Math.* 17 (1969), 1122-1129. (J. J. Schäffer) 41 #2110

(with Chow, Shui-nee) An existence theorem for ordinary differential equations in Banach spaces. *Bull. Amer. Math. Soc.* 77 (1971), 1018-1020. (J. E. Lagnese) 44 #4334

Schuurmann, F. J.

Uniqueness in the uniform approximation of a function and its derivatives. *SIAM J. Numer. Anal.* 6 (1969), 305-315. (G. D. Taylor) 40 #3681

Schuurmans, M. F. H.

* (with Baayens, A. P. M.) A numerical study of an initial value problem for a set of diffusive wave equations. T.H.-Report 70-WSK-05. *Department of Mathematics, Technological University Eindhoven, Eindhoven,* 1970. i + 20 *pp.* 41 #9455

(with Broer, L. J. F.) On a simple wave approximation. *J. Engrg. Math.* 4 (1970), 305-318. (I. Stakgold) 44 #4369

Schuwalowa, E. S. See Šuvalova, È. Z.

Schwab, E.

(with Boja, N.) On a parabola in the hyperbolic plane. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 69-76. (P. Vincensini) 35 #2225

On the equation $ixi = i$ in regular and invertible semigroups. (Romanian. German summary) *An. Univ. Timişoara Ser. Şti. Mat.* 7 (1969), 253-256 (1970). (Author's summary) 42 #6137

Schwabauer, Robert

(with Jacobs, Eugene) The lattice of equational classes of algebras with one unary operation. *Amer. Math. Monthly* 71 (1964), 151-155. (A. Daigneault) 29 #44

(with Ribeiro, H.) A remark on equational completeness. *Arch. Math. Logik Grundlagenforsch.* 7, 122-123 (1965). (M. Morley) 35 #41

A note on commutative semigroups. *Proc. Amer. Math. Soc.* 20 (1969), 503-504. (R. McFadden) 38 #2233

Commutative semigroup laws. *Proc. Amer. Math. Soc.* 22 (1969), 591-595. (T. Saitô) 39 #5734

Schwabe, R. A.

A remark concerning a uniqueness condition introduced by A. Pliś and T. Ważewski. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 147-149. (J. W. Bebernes) 41 #7186

Schwabhäuser, Wolfram

Zum Begriff der symbolischen Potenz. *Math.-Phys. Semesterber.* 11 (1964/65), 201-211. (H. A. Buchdahl) 31 #1204

On models of elementary elliptic geometry. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 312-328. *North-Holland, Amsterdam,* 1965. (E. Engeler) 33 #7259

Metamathematical methods in foundations of geometry. *Logic, Methodology and Philos. Sci. (Proc.* 1964 *Internat. Congr.), pp.* 152-165. *North-Holland, Amsterdam,* 1965. (G. Asser) 35 #5317

Zur Axiomatisierbarkeit von Theorien in der schwachen Logik der zweiten Stufe. *Arch. Math. Logik Grundlagenforsch.* 10 (1967), 60-96. (J. R. Büchi) 37 #3915

On the problem of definability of collinearity in terms of the midpoint relation. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 183-187. (James D. Halpern) 35 #1458

The connection between two geometrical axioms of H. N. Gupta. *Proc. Amer. Math. Soc.* 22 (1969), 233-234. (A. Heyting) 39 #7493

Axiomatisierbarkeit der dimensionsfreien euklidischen Geometrie über geeigneten Körpern. *J. Reine Angew. Math.* 242 (1970), 134-147. (Arnold Oberschelp) 42 #8374

Schwabik, Štefan

Extremale Regelungen für die lineare zeitoptimale Regelungsaufgabe mit einem konvexen Regelungsbereich. (Czech and Russian summaries) *Časopis Pěst. Mat.* 91 (1966), 80-88. (L. W. Neustadt) 32 #9100

On the linear control problem $\mathring{x} = Ax + Bu$. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 141-144, 227. (A. Strauss) 38 #1577

Stetige Abhängigkeit von einem Parameter und invariante Mannigfaltigkeiten für verallgemeinerte Differentialgleichungen. *Czechoslovak Math. J.* 19(94) (1969), 398-427. (R. E. Gaines) 40 #5943

Verallgemeinerte gewöhnliche Differentialgleichungen; Systeme mit Impulsen auf Flächen. I. *Czechoslovak Math. J.* 20(95) (1970), 468-490. (R. E. Gaines) 42 #3335

Bemerkungen zu Stabilitätsfragen für verallgemeinerte Differentialgleichungen. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 57-66, 102. (A. M. Krall) 44 #559

Verallgemeinerte lineare Differentialgleichungssysteme. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 183-211, 212. (E. K. H. Hoehn) 44 #5537

Verallgemeinerte gewöhnliche Differentialgleichungen; Systeme mit Impulsen auf Flächen. II. *Czechoslovak Math. J.* 21(96) (1971), 172-197. (R. E. Gaines) 44 #7018

Stetige Abhängigkeit von einem Parameter für ein Differentialgleichungssystem mit Impulsen. *Czechoslovak Math. J.* 21(96) (1971), 198-212. (R. E. Gaines) 44 #7019

Schwabl, F.

(with Thirring, W.) Quantum theory of laser radiation. *Ergebnisse exakt. Naturwissenschaft., Bd.* 36, *pp.* 219-242. *Springer, Berlin,* 1964. (A. C. T. Wu) 32 #7076

Generating functional and Green's function hierarchy of the Ising model. *Ann. Physics* 54 (1969), 1-16. (G. Bandyopadhyay) 40 #3832

Schwald, Andreas

Über das aymptotische Verhalten der Anzahl von *k*-tupeln linear unabhängiger Gitterpunkte. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 173 (1965), 195-249. (V. C. Dumir) 33 #1288

Schwandt, Ernst A.

Non-degenerate modular wave forms with wave parameter $\rho = 1$. *J. London Math. Soc.* (2) 3 (1971), 183-186. (M. Eichler) 43 #4763

Schwanenberg, Peter

* Intervallanalytische Methoden zur Lösung von Randwertaufgaben bei gewöhnlichen Differentialgleichungen. BMBW-GMD-35. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1970. ii + 44 *pp.* (H. Ratschek) 42 #8703

Schwartz, Alan L.

The smoothness of Hankel transforms. *J. Math. Anal. Appl.* 28 (1969), 500-507. (V. M. Bhise) 40 #3204

An inversion theorem for Hankel transforms. *Proc. Amer. Math. Soc.* 22 (1969), 713-717. (V. P. Mainra) 39 #4616

On the ideal structure of the algebra of radial functions. *Proc. Amer. Math. Soc.* 26 (1970), 621-624. (R. E. Edwards) 42 #774

The structure of the algebra of Hankel transforms and the algebra of Hankel-Stieltjes transforms. *Canad. J. Math.* 23 (1971), 236-246. (G. Sunouchi) 42 #8192

On the absolute integrability of Hankel transforms: An analog to Bernstein's theorem. *J. Math. Anal. Appl.* 34 (1971), 202-213. (J. N. Pandey) 43 #5263

Schwartz, Arthur J.

(with Sacksteder, Richard) Limit sets of foliations. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 201-213. (B. L. Reinhart) 32 #6489

Common periodic points of commuting functions. *Michigan Math. J.* 12 (1965), 353-355. (Haskell Cohen) 31 #6221

Poisson stable orbits in the interior of the solid torus. *Topological Dynamics (Symposium, Colorado State Univ., Ft. Collins, Colo.,* 1967*), pp.* 413-421. *Benjamin, New York,* 1968. (B. F. Bryant) 38 #6572

Flows on the solid torus asymptotic to the boundary. *J. Differential Equations* 4 (1968), 314-326. (J. D. Baum) 37 #2208

(with Thomas, E. S.) The depth of the center of 2-manifolds. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 253-264. *Amer. Math. Soc., Providence, R. I.,* 1970. (M. Eisenberg) 41 #7666

Schwartz, Benjamin L.

On interchange graphs. *Pacific J. Math.* 27 (1968), 393-396. (R. C. Read) 38 #3174

Infinite self-interchange graphs. *Pacific J. Math.* 31 (1969), 497-504. (M. D. Plummer) 41 #6717

(with Beineke, Lowell W.) Locally finite self-interchange graphs. *Proc. Amer. Math. Soc.* 27 (1971), 8-12. (G. Chartrand) 44 #6540

Schwartz, Charles

A study of some approximation schemes in quantum mechanics. *Ann. Physics* 32 (1965), 277-291. (G. Källén) 31 #4410

Numerical solution of fixed-source field theories. *Phys. Rev.* (2) 137 (1965), B212-B218. (Author's summary) 32 #3554

Solution of a Bethe-Salpeter equation. *Phys. Rev.* (2) 137 (1965), B717-B719. (Author's summary) 32 #3553

(with Zemach, Charles) Theory and calculation of scattering with the Bethe-Salpeter equation. *Phys. Rev.* (2) 141 (1965), 1454-1467. (B. A. Lippmann) 33 #2166

Application of the Schwinger variational principle for scattering. *Phys. Rev.* (2) 141 (1966), 1468-1470. (B. A. Lippmann) 33 #2167

Generalized eigenvalue problems. *Ann. Physics* 42 (1967), 367-374. (S. H. Gould) 35 #3136

Variational principles for integrals. *J. Computational Phys.* 3 (1969), 512-522. (H. E. Fettis) 39 #2330

Numerical integration of analytic functions. *J. Computational Phys.* 4 (1969), 19-29. (Walter Gautschi) 39 #5062

Schwartz, Dietrich

Nichtdefinierbarkeit der Stufenbeziehung durch die Elementbeziehung in der Allgemeinen Mengenlehre von Klaua. *Monatsb. Deutsch. Akad. Wiss. Berlin* 12 (1970), 116-120. (F. R. Drake) 42 #4389

Die Nichtkompaktheit der Klasse der archimedisch geordneten Körper. *Z. Math. Logik Grundlagen Math.* 17 (1971), 189-191. (D. H. Potts) 44 #6472

Schwartz, J. See Schwartz, Arthur J.

Schwartz, Jacob T.

Some non-selfadjoint operators. *Comm. Pure Appl. Math.* 13 (1960), 609-639. (G. K. Kalisch) 29 #2656

* (with Dunford, Nelson) Линейные операторы. Частиь I: Общая теория. (Russian) [Linear operators. Part I: General theory] Translated from the English. *Izdat. Inostran. Lit., Moscow,* 1962. 895 *pp.* (Editors) 35 #7138

Some results on the spectra and spectral resolutions of a class of singular integral operators. *Comm. Pure Appl. Math.* 15 (1962), 75-90. (C. B. Morrey, Jr.) 29 #480

* (with Dunford, Nelson) Linear operators. Part II: Spectral theory. Self adjoint operators in Hilbert space. With the assistance of William G. Bade and Robert G. Bartle. *Interscience Publishers [John Wiley & Sons], New York-London,* 1963. ix + *pp.* 859-1923 + 7 *pp.* (C. Foiaş) 32 #6181

Non-isomorphism of a pair of factors of type III. *Comm. Pure Appl. Math.* 16 (1963), 111-120. (G.-C. Rota) 29 #482

Compact analytic mappings of *B*-spaces and a theorem of Jane Cronin. *Comm. Pure Appl. Math.* 16 (1963), 253-260. (R. C. Gunning) 29 #481

Generalizing the Lusternik-Schnirelman theory of critical points. *Comm. Pure Appl. Math.* 17 (1964), 307-315. (R. S. Palais) 29 #4069

(with McCarthy, C. A.) On the norm of a finite Boolean algebra of projections, and applications to theorems of Kreiss and Morton. *Comm. Pure Appl. Math.* 18 (1965), 191-201. (H.-O. Kreiss) 31 #5097

* (with Dunford, Nelson) Линейные операторы. Часть II: Спектральная теория. Самосопряженные операторы в гильбертовом пространстве. (Russian) [Linear operators. Part II: Spectral theory. Self adjoint operators in Hilbert space] With the assistance of William G. Bade and Robert G. Bartle. Translated from the English by M. G. Gasymov, V. Ja. Lin and B. S. Mitjagin. Edited by A. G. Kostjučenko. *Izdat. "Mir", Moscow,* 1966. 1063 *pp.* (Editors) 35 #7139

A remark on Morse theory. *Comm. Pure Appl. Math.* 19 (1966), 139-143. (R. S. Palais) 34 #827

* W^*- algebras. *Gordon and Breach Science Publishers, New York-London-Paris,* 1967. vi + 256 *pp.* (S. Sakai) 38 #547

(See also Proceedings of Symposia in Applied Mathematics. Vol. XIX: Mathematical aspects of computer science, 38 #2975)

(with Porta, H.) Representations of the algebra of all operators in Hilbert space, and related analytic function algebras. *Comm. Pure Appl. Math.* 20 (1967), 457-492. (I. Kovács) 35 #2157

* (with Hausner, Melvin) Lie groups; Lie algebras. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. x + 229 *pp.* (N. R. Wallach) 38 #3377

(See also Rellich, Franz, 39 #2014)

Recent progress in the structure theory of factors. *Functional Analysis (Proc. Sympos., Monterey, Calif.,* 1969*),* 37-53. *Academic Press, New York,* 1970. (S. Anastasio) 42 #860

Schwartz, Judah L.

(with Sahlin, Harry L.) Many-body problem for composite particles. *Phys. Rev.* (2) 138 (1965), B267-B273. (D. Lurié) 32 #3690

Schwartz, Laurent

Some applications of the theory of distributions. *Lectures on Modern Mathematics, Vol. I, pp.* 23-58. *Wiley, New York,* 1963. (Editors) 31 #2611

Les travaux de Seeley sur les opérateurs intégraux singuliers sur une variété. *Séminaire Bourbaki,* 16^{e} *année:* 1963/64, *Fasc.* 2, *Exposé* 269, 15 *pp. Secrétariat mathématique, Paris,* 1964. (R. T. Seeley) 31 #637

* Применение обобщенных функций к изучению элементарных частиц в релятивистской квантовой механике. (Russian) [Application of distributions to the study of elementary particles in relativistic quantum mechanics] Translated from the English by I. B. Aleksandrov and A. N. Starostin. Edited by A. A. Kirilov. With an introduction by N. N. Bogoljubov. *Izdat. "Mir", Moscow,* 1964. 181 *pp.* (Editors) 32 #835

Sous-espaces hilbertiens et noyaux associés; applications aux représentations des groupes de Lie. *Deuxième Colloq. l'Anal. Fonct., pp.* 153-163. *Centre Belge Recherches Math., Librairie Universitaire, Louvain,* 1964. (J. Dieudonné) 32 #2890

Mesures de Radon sur des espaces non localement compacts. *Theory of Distributions (Proc. Internat. Summer. Inst., Lisbon, 1964), pp.* 3-22. *Inst. Gulbenkian Ci., Lisbon,* 1964. (R. D. Ryan) 36 #2770

Sous-espaces hilbertiens d'espaces vectoriels topologiques et noyaux associés (noyaux reproduisants). *J. Analyse Math.* 13 (1964), 115-256. (J. Dieudonné) 31 #3835

(See Séminaire Henri Cartan, 31 #4047a)

Opérateurs différentiels et espaces fibrés à fibre vectorielle. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique (Séminaire H. Cartan, 16^e année:* 1963/64, *Fasc.* 1*), Exposé* 1, 7 *pp. Secretariat mathematique, Paris,* 1965. (J. Dieudonné) See 31 #4047a; erratum, 31, p. 1336

Opérateurs elliptiques et indices. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique (Séminaire H. Cartan, 16^e année:* 1963/64, *Fasc.* 1*), Exposé* 2, 9 *pp. Secrétariat mathématique, Paris,* 1965. (J. Dieudonné) See 31 #4047a; erratum, 31, p. 1336

La formule d'Atiyah-Singer. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique (Séminaire H. Cartan, 16^e année:* 1963/64, *Fasc.* 1*), Exposé* 7, 2 *pp. Secrétariat mathématique, Paris,* 1965. (J. Dieudonné) See 31 4047a; erratum, 31, p.#1336

(See Séminaire Henri Cartan, 31 #4047b; erratum, 31, p. 1336)

* Математические методы для физических наук. (Russian) [Mathematical methods for physical sciences] With the collaboration of Denise Huet. Translated from the French by F. V. Širokova. *Izdat. "Mir", Moscow,* 1965. 412 *pp.* (Editors) 32 #6721

(with Mandelbrojt, Szolem) Jacques Hadamard (1865-1963). *Bull. Amer. Math. Soc.* 71 (1965), 107-129. (1 *plate*) (Editors) 31 #3300

* Mathematics for the physical sciences. *Hermann, Paris; Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1966. 358 *pp.* (Editors) 34 #7309

* Théorie des distributions. Publications de l'Institut de Mathématique de l'Université de Strasbourg, No. IX-X. Nouvelle édition, entièrement corrigée, refondue et augmentée. *Hermann, Paris,* 1966. xiii + 420 *pp.* (J. L. B. Cooper) 35 #730

Sur le théorème du graphe fermé. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A602-A605. (W. Słowikowski) 34 #6494

(with Fuglede, Bent) Un nouveau théorème sur les distributions. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A899-A901. (G. Marinescu) 35 #5931

Mesures de Radon sur des espaces non localement compacts. (Japanese) *Sûgaku* 17 (1966), 193-204. (I. Namioka) 36 #3944

* Analyse mathématique. I. *Hermann, Paris,* 1967. xxix + 830 *pp.* (J. Dieudonné) 37 #2558a

* Analyse mathématique. II. *Hermann, Paris,* 1967. xxiv + 475 + 21 + 75 *pp. (not consecutively paged)* (J. Dieudonné) 37 #2558b

Extension du théorème de Sazonov-Minlos à des cas non hilbertiens. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A832-A834. (A. Badrikian) 37 #2275

Réciproque du théorème de Sazonov-Minlos dans des cas non hilbertiens. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A7-A9. (A. Badrikian) 37 #2276

Demonstration de deux lemmes sur les probabilités cylindriques. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A50-A52. (A. Fuchs) 38 #3894

Désintégration régulière d'une mesure par rapport à une famille de tribus. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A424-A425. (S. J. Taylor) 40 #7420a

Applications des désintégrations régulières. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A467-A469. (S. J. Taylor) 40 #7420b

Un théorème sur les suites de variables aléatoires. *Symposia Mathematica, Vol. II (INDAM, Rome,* 1968*), pp.* 203-209. *Academic Press, London,* 1969. (A. Badrikian) 41 #2745

Probabilités cylindriques et applications radonifiantes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A646-A648. (A. Badrikian) 40 #2144)

Un théorème de convergence dans les L^p, $0\leq p<+\infty$. *C. R. Acad. Sci. Paris Ser. A - B* 268 (1969), A704-A706. (W. A. J. Luxemburg) 39 #1958

Mesures cylindriques et applications radonifiantes dans les espaces du suites. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969*), pp.* 41-59. *Univ. of Tokyo Press, Tokyo,* 1970. (A. Badrikian) 44 #6932

Schwartz, Lawrence

(with Bass, R. W.; Norum, V. D.) Optimal multichannel nonlinear filtering. *J. Math. Anal. Appl.* 16 (1966), 152-164. (J. Capon) 34 #7269

Linear sequential estimation with unestimated parameters. *Information Sci.* 1 (1968/69), 329-334. (Author's summary) 40 #3987

(with Stear, Edwin B.) A valid mathematical model for approximate nonlinear minimal-variance filtering. *J. Math. Anal. Appl.* 21 (1968), 1-6. (M. Zakai) 37 #1194

Approximate continuous nonlinear minimal-variance filtering. *Advances in Control Systems, Vol.* 7*, pp.* 31-72. *Academic Press, New York,* 1969. (H. J. Kushner) 43 #5965

Sequential estimation with unestimated parameters—The forced case. *Information Sci.* 2 (1970), 77-81. (M. Peschel) 42 #8620

Schwartz, Lawrence E.

Large step gradient methods for decomposable nonlinear programming problems. (With discussion) *Optimization (Sympos., Univ. Keele, Keele,* 1968*), pp.* 99-114. *Academic Press, London,* 1969. (M. Mañas) 42 #8904

Schwartz, Lorraine

On consistency of Bayes procedures. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 46-49. (H. E. Reinhardt) 29 #1706

On Bayes procedures. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4 (1965), 10-26. (L. J. Savage) 32 #1851

Schwartz, Marie-Hélène

Fibre spaces. (Spanish) *Rev. Mat. Elem.* 5 (1961), *suple,* 60 *pp.* (Editors) 30 #583

Classes caractéristiques définies par une stratification d'une variété analytique complexe. *C. R. Acad. Sci. Paris* 260 (1965), 3262-3264. (A. Dold) 35 #3707

Classes caractéristiques définies par une stratification d'une variété analytique complexe. *C. R. Acad. Sci. Paris* 260 (1965), 3535-3537. (A. Dold) 32 #1727

* Lectures on stratification of complex analytic sets. Tata Institute of Fundamental Research Lectures on Mathematics, No. 38. *Tata Institute of Fundamental Research, Bombay,* 1966. iii + 77 + iv *pp.* (R. Draper) 35 #5660

Champs de repères tangents à une variété presque complexe. *Bull. Soc. Math. Belg.* 19 (1967), 389-420. (H. H. Johnson) 39 #4771

Schwartz, Melvin

Lagrangian and Hamiltonian formalisms with supplementary conditions. *J. Mathematical Phys.* 5 (1964), 903-907. (Y. Takahashi) 29 #4433

Renormalized action integrals in classical electrodynamics. *Phys. Rev.* (2) 137 (1965), B1410-B1414. (F. Rohrlich) 32 #3569

Schwartz, Mme. Laurent. See Schwartz, Marie-Hélène.

Schwartz, Morton I.

On the reception of binary signals in the presence of a small random delay. *Bell System Tech. J.* 44 (1965), 1123-1138. (K. S. Miller) 31 #3245

Distribution of the time-average power of a Gaussian process. *IEEE Trans. Information Theory* IT-16 (1970), 17-26. (Author's summary) 42 #6927

Schwartz, Nancy L.

(with Kamien, Morton I.) Expenditure patterns for risky *R* and *D* projects. *J. Appl. Probability* 8 (1971), 60-73. (I. M. Stancu-Minasian) 43 #8350

Schwartz, R. A.

(with Lindquist, R. W.; Misner, C. W.) Vaidya's radiating Schwarzschild metric. *Phys. Rev.* (2) 137 (1965), B1364-B1368. (J. R. Klauder) 33 #7088

Schwartz, Ralph E.

Existence and uniqueness properties of subfunctions of Boolean functions. *SIAM J. Appl. Math.* 18 (1970), 454-461. (P. R. Bryant) 41 #3177

Schwartz, Richard E.

(with Kiefer, J.) Admissible Bayes character of T^{2-}, R^{2-}, and other fully invariant tests for classical multivariate normal problems. *Ann. Math. Statist.* 36 (1965), 747-770. (E. L. Lehmann) 30 #5430

Fully invariant proper Bayes tests. *Multivariate Analysis (Proc. Internat. Sympos., Dayton, Ohio,* 1965*), pp.* 275-284. *Academic Press, New York,* 1966. (M. S. Srivastava) 35 #2425

Locally minimax tests. *Ann. Math. Statist.* 38 (1967), 340-359. (V. Kurotschka) 35 #5065

Admissible tests in multivariate analysis of variance. *Ann. Math. Statist.* 38 (1967), 698-710. (T. S. Ferguson) 35 #1133

Invariant proper Bayes tests for exponential families. *Ann. Math. Statist.* 40 (1969), 270-283. (A. K. Gayen) 41 #1158

Minimax CFAR detection in additive Gaussian noise of unknown covariance. *IEEE Trans. Information Theory* IT-15 (1969), 722-725. (J. Capon) 43 #1730

Schwartz, Stuart C.

Convergence of risk in adaptive pattern recognition procedures. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 800-807. *Univ. of Illinois, Urbana, Ill.,* 1967. (Author's summary) 41 #7804

Estimation of probability density by an orthogonal series. *Ann. Math. Statist.* 38 (1967), 1261-1265. (M. Atiqullah) 36 #4690

(with Martin, R. D.) Robust detection procedures for signals of known form in nearly Gaussian noise. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 773-782. *Univ. of Illinois, Urbana, Ill.,* 1968. (Authors' summary) 41 #8134

(with Root, W. L.) On dominating an average associated with dependent gaussian vectors. *Ann. Math. Statist.* 39 (1968), 1844-1848. (E. Lukacs) 38 #803

(with Bar-Shalom, Y.) A non-parametric recursive identification algorithm for finite-memory linear systems. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 523-532. *Univ. of Illinois, Urbana, Ill.,* 1969. (Authors' summary) 41 #8114

A series technique for the optimum detection of stochastic signals in noise. *IEEE Trans. Information Theory* IT-15 (1969), 362-369. 39 #5230

Schwartz, Thomas

A simple treatment of Church's theorem on the decision problem. *Logique et Analyse (N.S.)* 12 (1969), 153-156. (A. B. Slomson) 44 #73

Schwartzbauer, T.

(with Chacon, R. V.) Commuting point transformations. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 277-287. (J. C. Oxtoby) 39 #2939

(with Chacon, R. V.) Approximation and invariance. *Contributions to Ergodic Theory and Probability (Proc. Conf., Ohio State Univ., Columbus, Ohio,* 1970*), pp.* 28-36. *Springer, Berlin,* 1970. (J. C. Oxtoby) 42 #6187

(with Akcoglu, M. A.; Chacon, R. V.) Commuting transformations and mixing. *Proc. Amer. Math. Soc.* 24 (1970), 637-642. (T.-C. Sun) 40 #7421

A general method for approximating measure preserving transformations. *Proc. Amer. Math. Soc.* 24 (1970), 643-648. (T.-C. Sun) 41 #430

Automorphisms that admit an approximation by periodic transformations. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 239-248. (Michael Weiss) 44 #4185

Schwartzman, Solomon

(with Jewett, Robert I.) Dynamical systems with an invariant space of vector fields. *Trans. Amer. Math. Soc.* 147 (1970), 129-134. (H. H. Johnson) 40 #6007

Schwarz, A. S. See Švarc, A. S.

Schwarz, Binyamin

On the product of the distances of a point from the vertices of a polytope. *Israel J. Math.* 3 (1965), 29-38. (G. D. Chakerian) 32 #1613

Disconjugacy of complex differential systems. *Trans. Amer. Math. Soc.* 125 (1966), 482-496. (T. L. Sherman) 34 #6190

(with London, David) On the radius of disfocality of a class of polynomials. *J. Math. Anal. Appl.* 20 (1967), 521-533. (O. Shisha) 37 #4241

Norm conditions for disconjugacy of complex differential systems. *J. Math. Anal. Appl.* 28 (1969), 553-568. (D. A. Lutz) 40 #2963

(with London, David) Disconjugacy of complex differential systems and equations. *Trans. Amer. Math. Soc.* 135 (1969), 487-505. (T. L. Sherman) 38 #6154

Totally positive differential systems. *Pacific J. Math.* 32 (1970), 203-229. (J. S. Bradley) 41 #2117

Schwarz, Fritz

Unitary irreducible representations of the groups $SO_0(n,1)$. *J. Mathematical Phys.* 12 (1971), 131-139. (A. O. Barut) 44 #5023

Schwarz, Gideon

(with Dubins, Lester E.) On continuous martingales. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 913-916. (P. E. Ney) 31 #2756

(with Dubins, Lester E.) On extremal martingale distributions. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66*), Vol. II: Contributions to Probability Theory, Part 1, pp.* 295-299. *Univ. California Press, Berkeley, Calif.,* 1967. (P. E. Ney) 35 #7388

Variations on vector measures. *Pacific J. Math.* 23 (1967), 373-375. (J. Král) 36 #3946

Asymptotic shapes for sequential testing of truncation parameters. *Ann. Math. Statist.* 39 (1968), 2038-2043. (A. F. Ifram) 39 #1037

Time-free continuous processes. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1183-1188. (P. E. Ney) 38 #5280

A second-order approximation to optimal sampling regions. *Ann. Math. Statist.* 40 (1969), 313-315. (H. Chernoff) 38 #3974

A sequential Student test. *Ann. Math. Statist.* 42 (1971), 1003-1009. (W. Hoeffding) 43 #8187

Schwarz, H. A.

(See Weierstrass, K., 34 #2952)

Schwarz, Hans Rudolf

(with Amer, R. A.-R.) Contributions to the approximation problem of electrical filters. *Mitt. Inst. Angew. Math. Zürich No.* 9 (1964), *99 pp.* (H. J. Orchard) 29 #4639

Die Reduktion einer symmetrischen Bandmatrix auf tridiagonale Form. *Z. Angew. Math. Mech.* 45 (1965), T75-T77. (H. Rutishauser) 34 #5267

* Numerik symmetrischer Matrizen. Unter Mitwirkung von H. Rutishauser und E. Stiefel. Leitfäden der Angewandten Mathematik und Mechanik, Band 11. *B. G. Teubner, Stuttgart,* 1968. 243 *pp.* (James H. Wilkinson) 41 #9427

Schwarz, Hans-Ulrich

Ein Konvexitätstheorem für *p*-majorisierbare vektorwertige Maße. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 18 (1969), *Heft* 2, 249-251. (J. Musielak) 42 #460

Schwarz, John H.

Freund-Karplus natural boundary. *Phys. Rev.* (2) 138 (1965), B187-B189. (P. G. O. Freund) 32 #3520

(with Gross, David J.) Normal threshold sheet structure of two-particle scattering amplitudes. *Phys. Rev.* (2) 140 (1965), B1054-B1067. (D. I. Olive) 32 #6919

(with Gross, David J.) Basic operators of the dual-resonance model. *Nuclear Phys.* B23 (1970), 333-357. (Authors' summary) 43 #1554

(with Burnett, T. H.; Gross, D. J.; Neveu, A.; Scherk, J.) Renormalized self-energy operator in the dual-resonance model. *Phys. Lett.* 32B (1970), 115-120. (K. Chadan) 44 #6261

(with Burnett, T. H.) Infinite products and convergence properties of certain Reggeized Feynman diagrams. *Phys. Rev. D* (3) 1 (1970), 423-431. (J. T. Cushing) 41 #9514

(with Gross, David J.) Rules for constructing dual amplitudes. *Phys. Rev. Lett.* 25 (1970), 406-409. (Authors' summary) 44 #6268

Schwarz, Ralph J.

Table errata. *Math. Comp.* 22 (1968), 473. (Editors) 37 #2401

(with Cooper, David B.) On suitable conditions for statistical pattern recognition without supervision. *SIAM J. Appl. Math.* 17 (1969), 872-896. (J. J. Deely) 43 #2815

Schwarz, Štefan

Probability measures on non-commutative semigroups. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague,* 1961*), pp.* 307-310. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (Editors) 30 #3931

Convolution semigroup of measures on compact non-commutative semigroups. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 95-115. (I. Glicksberg) 30 #212

Product decomposition of idempotent measures on compact semigroups. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 121-124. (I. Glicksberg) 30 #213

(See also Kolibiar, Milan, 31 #18)

On the structure of the semigroup of stochastic matrices. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 297-311 (1965). (W. E. Clark) 32 #5776

A semigroup treatment of some theorems on non-negative matrices. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 212-229. (W. E. Clark) 31 #195

On powers of non-negative matrices. (Russian summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied.* 15 (1965), 215-228. (W. E. Clark) 33 #214

Remark on the theory of non-negative matrices. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 207-211. (H. Schwerdtfeger) 30 #2018

A new approach to some problems in the theory of non-negative matrices. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 274-284. (Y. Lehrer-Ilamed) 34 #1336

New kinds of theorems on non-negative matrices. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 285-295. (Y. Lehrer-Ilamed) 34 #1337

On the index of imprimitivity of a non-negative matrix. *Acta Sci. Math. (Szeged)* 28 (1967), 185-189. (Y. Lehrer-Ilamed) 35 #5459

Some estimates in the theory of non-negative matrices. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 399-407. (Y. Lehrer-Ilamed) 36 #192

A note on the structure of the semigroup of doubly-stochastic matrices. (Loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 308-316. (I. Olkin) 39 #2791

L'application des demi-groupes à l'étude des matrices non-négatives. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot:* 1966/67, *Algèbre et Théorie des Nombres, Fasc.* 1, *Exp.* 2, 8 *pp. Secrétariat mathématique, Paris,* 1968. (B. R. Heap) 38 #2039

* Základy náuky o riešení rovníc. (Slovak) [Fundamentals of the science of solving equations] Second, augmented edition. *Vydavatel'stvo Slovenskej Akadémie Vied, Bratislava,* 1968. 454 *pp. (loose errata)* (Editors) 39 #1250

Algebraic considerations on powers of stochastic matrices. (Loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 18 218-228. (J. G. Mauldon) 39 #6911

The scientific work of K. Petr in the field of number theory. (Slovak) *Časopis Pěst. Mat.* 94 (1969), 358-361. 40 #4070

Prime ideals and maximal ideals in semigroups. *Czechoslovak Math. J.* 19(94) (1969), 72-79. (D. R. LaTorre) 38 #5961

On idempotent binary relations on a finite set. *Czechoslovak Math. J.* 20(95) (1970), 696-702. (R. E. Peinado) 42 #2946

On a sharp estimation in the theory of binary relations on a finite set. *Czechoslovak Math. J.* 20(95) (1970), 703-714. (R. A. Brualdi) 44 #96

Any 0-simple dual semigroup is completely 0-simple. *Semigroup Forum* 2 (1971), *no.* 1, 90-92. (G. J. Lallement) 43 #7533

Schwarz, Wolfgang

Über die Lösbarkeit gewisser Ungleichungen durch Primzahlen. *J. Reine Angew. Math.* 212 (1963), 150-157. (R. P. Bambah) 33 #110

* Einige Anwendungen Tauberscher Sätze in der Zahlentheorie. Habilitationsschrift vorgelegt zur Erlangung der venia legendi für Mathematik der Hohen Naturwissenschaftlich-Mathematischen Fakultät der Albert-Ludwigs-Universität zu Freiburg i. Br. *Dissertation, Freiburg,* 1964. xviii + 103 *pp.* (H. -E. Richert) 31 #132

Einige Anwendungen Tauberscher Sätze in der Zahlentheorie. A. *J. Reine Angew. Math.* 219 (1965), 67-96. (N. G. de Bruijn) 32 #2387

Einige Anwendungen Tauberscher Sätze in der Zahlentheorie. B. *J. Reine Angew. Math.* 219 (1965), 157-179. (N. G. de Bruijn) 32 #2388

(See also Weyl, Hermann, 35 #164)

Irrationale Potenzreihen. II. *Arch. Math. (Basel)* 17 (1966), 435-437. (Morris Newman) 34 #1502

Einige Bemerkungen über periodische zahlentheoretische Funktionen. *Math. Nachr.* 31 (1966), 125-136. (N. G. de Bruijn) 34 #131

Über die Anzahl Abelscher Gruppen gegebener Ordnung. I. *Math. Z.* 92 (1966), 314-320. (H.-E. Richert) 33 #5724

Über die Anzahl Abelscher Gruppen gegebener Ordnung. II. *J. Reine Angew. Math.* 228 (1967), 133-138. (H.-E. Richert) 35 #6631

Einige Anwendungen Tauberscher Sätze in der Zahlentheorie. C. Mahler's Partitionsproblem. *J. Reine Angew. Math.* 228 (1967), 182-188. (H.-E. Richert) 36 #126

Remarks on the irrationality and transcendence of certain series. *Math. Scand.* 20 (1967), 269-274. (W. W. Adams) 38 #3234

Eine Bemerkung über die Anzahl der Zahlen pr^2 unterhalb x. *Colloq. Math.* 19 (1968), 117-120. (E. Grosswald) 37 #174

Schwache asymptotische Eigenschaften von Partitionen. *J. Reine Angew. Math.* 232 (1968), 1-16. (E. Grosswald) 38 #4433

Schwache asymptotische Eigenschaften schnell wachsender multiplikativer zahlentheoretischer Funktionen. *Monatsh. Math.* 72 (1968), 355-367. (D. Rearick) 38 #124

Der Primzahlsatz. B. I. Hochschultaschenbücher 161/161a. *Überblicke Math.* 1 (1968), 35-61. (E. Grosswald) 39 #1420

* Einführung in Methoden und Ergebnisse der Primzahltheorie. B·I-Hochschultaschenbücher, 278/278a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. 227 *pp.* (A. L. Whiteman) 41 #8350

Asymptotische Formeln für Partitionen. *J. Reine Angew. Math.* 234 (1969), 174-178. (J. Lehner) 40 #7217

Bemerkungen zu einem Satz der Herren Turán und Clunie über das Verhalten von Potenzreihen auf dem Rande des Konvergenzkreises. *Publ. Math. Debrecen* 16 (1969), 67-73. (J. Clunie) 42 #6198

Schwache asymptotische Eigenschaften von Partitionen. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen, 1968), pp.* 191-196. *North-Holland, Amsterdam,* 1970. (E. Grosswald) 43 #174

Eine Bemerkung zu einer asymptotischen Formel von Herrn Rényi. *Arch. Math. (Basel)* 21 (1970), 157-166. (H. Halberstam) 42 #7611

Schwarze, Gunter

Über die 1., 2. und 3. äussere Randwertaufgabe der Schwingungsgleichung $\Delta F + K^2 F = 0$. *Math. Nachr.* 28 (1964/65), 337-363. (H. Bremmer) 31 #3733

Schwarzenberger, R. L. E.

(with Newstead, P. E.) Reducible vector bundles on a quadric surface. *Proc. Cambridge Philos. Soc.* 60 (1964), 421-424. (P. Cartier) 29 #4066

(with Robertson, S. A.) Vector bundles that fill n-space. *Proc. Cambridge Philos. Soc.* 61 (1965), 869-875. (R. H. Szczarba) 33 #3311

(See also Hirzebruch, F., 34 #2573)

Extendible vector bundles over real projective space. *Quart. J. Math. Oxford Ser.* (2) 17 (1966), 19-21. (R. H. Szczarba) 33 #3310

Exact fillings over differentiable manifolds. *J. London Math. Soc.* 42 (1967), 719-724. (R. E. Stong) 36 #900

The direct image of a vector bundle. *Proc. Cambridge Philos. Soc.* 63 (1967), 315-334. (M. F. Atiyah) 35 #1028

(with Mayer, K. H.) Non-embedding theorems for Y-spaces. *Proc. Cambridge Philos. Soc.* 63 (1967), 601-612. (F. Hirzebruch) 36 #3372

Schwarzenberger, Rudolf

* (with Oswatitsch, Klaus) Übungen zur Gasdynamik. 255 Aufgaben nebst Lösungen mit einer Sammlung von Formeln und Tabellen. *Springer-Verlag, Vienna,* 1963. x + 180 *pp.* (Editors) 29 #5577

Schwatt, I. J.

* An introduction to the operations with series. Second edition. *Chelsea Publishing Co., New York,* 1962. x + 287 *pp.* (Editors) 40 #7668

Schwebel, John C.

(with McCormick, Bruce H.) Consistent properties of composite formation under a binary relation. *Information Sci.* 2 (1970), 179-209. (K. A. Baker) 43 #1756

Schwebel, Solomon L.

(with Sachs, M.) Errata: A self-consistent field theory of quantum electrodynamics. *Nuovo Cimento Suppl.* (1) 2 (1964), 342. (Editors) 32 #2073

Schweder, Tore

Composable Markov processes. *J. Appl. Probability* 7 (1970), 400-410. (R. S. Bucy) 41 #9346

Schwedt, D.

(with Meinardus, G.) Nicht-lineare Approximationen. *Arch. Rational Mech. Anal.* 17 (1964), 297-326. (T. J. Rivlin) 33 #482

Schwegler, H.

Theorie der Multipolrelaxation. (English summary) *Z. Physik* 181 (1964), 22-43. (J. Meixner) 33 #7052

On commutation relations of tensor operators. *Nuovo Cimento* (10) 39 (1965), 398-400. (S. N. Biswas) 33 #7035

Verallgemeinerte physikalische Entropien auf informationstheoretischer Grundlage. *Z. Naturforsch.* 20a (1965), 1543-1553. (P. G. Bergmann) 33 #5326

Theorie der Multipolrelaxation. II. Bewegungsgleichungen bei beliebigem Spin. (English summary) *Z. Physik* 189 (1966), 163-175. (J. Meixner) 33 #7053

Theorie der Multipolrelaxation. III. Behandlung von Experimenten der reinen Quadrupol-Resonanz. (English summary) *Z. Physik* 189 (1966), 176-190. (J. Meixner) 33 #7054

Schweiger, Fritz

Bemerkungen zum Laplace-Lenzschen Vektor. *Acta Phys. Austriaca* 17 (1963/64), 343-346. (T. R. Kane) 29 #5430

Geometrische und elementare metrische Sätze über den Jacobischen Algorithmus. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 173 (1964), 59-92. (B. Volkmann) 34 #142

Metrische Sätze über den Jacobischen Algorithmus. *Monatsh. Math.* 69 (1965), 243-255. (B. Volkmann) 34 #143

(with Lausch, Hans; Nöbauer, Wilfried) Polynompermutationen auf Gruppen. *Monatsh. Math.* 69 (1965), 410-423. (Ti Yen) 32 #4200

Ergodische Theorie des Jacobischen Algorithmus. *Acta Arith.* 11 (1966), 451-460. (B. Volkmann) 35 #150

Existenz eines invarianten Masses beim Jacobischen Algorithmus. *Acta Arith.* 12 (1966/67), 263-268. (B. Volkmann) 35 #151

(with Lausch, Hans; Nöbauer, Wilfried) Polynompermutationen auf Gruppen. II. *Monatsh. Math.* 70 (1966), 118-126. (Ti Yen) 33 #1356

Induzierte Masse und Jacobischer Algorithmus. *Acta Arith.* 13 (1967/68), 419-422. (O. P. Stackelberg) 37 #148

(with Lausch, Hans) Characterization of groups by monomials. *J. Algebra* 6 (1967), 115-122. (J. E. Adney) 35 #4291

Metrische Theorie einer Klasse zahlentheoretischer Transformationen. *Acta Arith.* 15 (1968), 1-18. (B. Volkmann) 40 #7219 (E)

Mischungseigenschaften und Entropie beim Jacobischen Algorithmus. *J. Reine Angew. Math.* 229 (1968), 50-56. (B. Volkmann) 37 #2681

Ein Kuzminscher Satz über den Jacobischen Algorithmus. *J. Reine Angew. Math.* 232 (1968), 35-40. (B. Volkmann) 40 #4200

"Metrische Theorie einer Klasse zahlentheoretischer Transformationen": Corrigendum. *Acta Arith.* 16 (1969/70), 217-219. (B. Volkmann) 40 #7220

Normalität bezüglich zahlentheoretischer Transformationen. (English summary) *J. Number Theory* 1 (1969), 390-397. (O. P. Stackelberg) 40 #2616

Metrische Theorie einer Klasse zahlentheoretischer Transformationen. II. Hausdorffdimensionen spezieller Punktmengen. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 177 (1969), 31-50. (B. Volkmann) 40 #7221

Ergodische Theorie der Engelschen und Sylvesterschen Reihen. *Czechoslovak Math. J.* 20(95) (1970), 243-245. (E. Grosswald) 41 #3712 (E)

Über den Satz von Borel-Rényi in der Theorie der Cantorschen Reihen. *Monatsh. Math.* 74 (1970), 150-153. (T. Šalát) 42 #3049

Addendum zu "Ergodische Theorie der Engelschen und Sylvesterschen Reihen". *Czechoslovak Math. J.* 21(96) (1971), 165. (Editors) 43 #2190

Schweikert, Daniel G.

An interpolation curve using a spline in tension. *J. Math. and Phys.* 45 (1966), 312-317. (C. de Boor) 34 #6990

A comparison of error improvement estimates for adaptive trapezoid integration. *Comm. ACM* 13 (1970), 163-166. (R. E. Barnhill) 44 #7751

Schweinler, H. C.

(with Wigner, E. P.) Orthogonalization methods. *J. Mathematical Phys.* 11 (1970), 1693-1694. (B. Kolman) 41 #6862

Schweitzer, Miklós

(See Contests in higher mathematics (Hungary 1949-1961), 39 #1252)

Schweitzer, Paul A.

Secondary cohomology operations induced by the diagonal mapping. *Topology* 3 (1965), 337-355. (E. Thomas) 32 #451

Joint cobordism of immersions. *The Steenrod Algebra and its Applications (Proc. Conf. to Celebrate N. E. Steenrod's Sixtieth Birthday, Battelle Memorial Inst., Columbus, Ohio, 1970), pp.* 267-282. *Lecture Notes in Mathematics, Vol.* 168. *Springer, Berlin,* 1970. (K. Aoki) 43 #4052

Schweitzer, Paul J.

Some invalid properties of Markov chains. *Operations Res.* 14 (1966), 1153-1154. (E. Parzen) 34 #3661

Perturbation theory and finite Markov chains. *J. Appl. Probability* 5 (1968), 401-413. (E. Seneta) 38 #2844

Perturbation theory and undiscounted Markov renewal programming. *Operations Res.* 17 (1969), 716-727. (M. Dragomirescu) 41 #1377

Iterative solution of the functional equations of undiscounted Markov renewal programming. *J. Math. Anal. Appl.* 34 (1971), 495-501. (K. Hinderer) 43 #2981

Schweizer, Berthold

(with Sklar, A.) Triangle inequalities in a class of statistical metric spaces. *J. London Math. Soc.* 38 (1963), 401-406. (E. Vincze) 30 #4238

(with Sklar, A.) Associative functions and abstract semigroups. *Publ. Math. Debrecen* 10 (1963), 69-81. (M. Hosszú) 30 #1201

Equivalence relations in probabilistic metric spaces. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 10(14) (1964), *no.* 3-4, 67-70. (H. P. McKean, Jr.) 32 #1665

(with Sklar, A.) The algebra of functions. III. *Math. Ann.* 161 (1965), 171-196. (O. Frink) 32 #7667

On the uniform continuity of the probabilistic distance. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 357-360. (A. Sklar) 35 #3708

(with Sklar, A.) The algebra of multiplace vector-valued functions. *Bull. Amer. Math. Soc.* 73 (1967), 510-515. (B. M. Schein (Šaĭn) 35 #4138

(with Sklar, A.) Function systems. *Math. Ann.* 172 (1967), 1-16. (O. Frink) 35 #4137

(with Sklar, A.) A grammar of functions. I. *Aequationes Math.* 2 (1968), 62-85. (M. Hosszú) 38 #2227

(with Sklar, A.) A grammar of functions. II. *Aequationes Math.* 3 (1969), 15-43. (M. Hosszú) 42 #4663

(with Sklar, Abe) Mesures aléatoires de l'information. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A721-A723. (S. Guiaşu) 40 #7018

(with Sklar, Abe) Mesure aléatoire de l'information et mesure de l'information par un ensemble d'observateurs. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A149-A152. (S. Guiaşu) 44 #3774

(with Erber, T.; Sklar, A.) Probabilistic metric spaces and hysteresis systems. *Comm. Math. Phys.* 20 (1971), 205-219. (F. C. Auluck) 43 #5853

Schwenk, Allen

(with Harary, Frank) Trees with hamiltonian square. *Mathematika* 18 (1971), 138-140. (M. D. Plummer) 44 #5245

Schwenk, Allen J.

Take-away games. *Fibonacci Quart.* 8 (1970), *no.* 3, 225-234, 241. (W. F. Lucas) 44 #1446

Schwenkel, Frieder

Rekursive Wortfunktionen über unendlichen Alphabeten. *Z. Math. Logik Grundlagen Math.* 11 (1965), 133-147. (V. Vučković) 30 #3845

(See also Péter, Rózsa, 34 #2454)

Schweppe, Fred C.

Evaluation of likelihood functions for Gaussian signals. *IEEE Trans. Information Theory* IT-11 (1965), 61-70. (From the author's summary) 32 #3943

Sensor-array data processing for multiple-signal sources. *IEEE Trans. Information Theory* IT-14 (1968), 294-305. (Author's summary) 40 #2434

(with Glover, J. Duncan) Control of linear dynamic systems with set constrained disturbances. *IEEE Trans. Automatic Control* AC-16 (1971), 411-423. (Richard Gran) 44 #5149

Schwerdtfeger, Hans

Projective geometry in the one-dimensional affine group. *Canad. J. Math.* 16 (1964), 683-700. (H. W. Guggenheimer) 29 #3927

Group-theoretical interpretation of projective incidence theorems. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 307-314. *Gordon and Breach, New York,* 1967. (T. G. Room) 36 #782

Involutory functions and even functions. *Aequationes Math.* 2 (1968), 50-61. (S. Kurepa) 38 #2471

Remarks on the generalized inverse of a matrix. *Linear Algebra and Appl.* 1 (1968), 325-328. (M. Lotkin) 38 #2148

(with Rowlinson, Elizabeth) Polynomials with certain prescribed conditions on the Galois group. *Canad. J. Math.* 21 (1969), 262-273. (N. Sankaran) 38 #5753

Correction to: "Notes on numerical analysis. II". *Canad. Math. Bull.* 12 (1969), 353. (Editors) 40 #2212

Schwerin, E.

(See Topics in applied mechanics, 31 #1792)

Schwermer, H.

Zur Fehlererfassung bei der numerischen Integration von gewöhnlichen Differentialgleichungssystemen erster Ordnung mit speziellen Zweipunktverfahren. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach, 1966), pp.* 141-155. *Birkhäuser, Basel,* 1968. (F. Stenger) 42 #4025

Schwertassek, R.

Grenzen von Mitnahmebereichen. Periodische Lösungen von Differentialgleichungen mit Schaltstellen. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 409-421. (W. S. Loud) 41 #2130

Schwetlick, H.

(with Schmidt, J. W.) Ableitungsfreie Verfahren mit höherer Konvergenzgeschwindigkeit. (English summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 215-226. (Authors' summary) 38 #2944

Lineare positive Operatoren und Fehlerabschätzungen bei Operatorgleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 345-358. (B. Jankó) 41 #6420

Asymptotische Einschließungen beim Newton-Verfahren. *Z. Angew. Math. Mech.* 50 (1970), 426-427. (G. W. Stewart) 42 #1330

Schwichtenberg, Helmut

Rekursionszahlen und die Grzegorczyk-Hierarchie. *Arch. Math. Logik Grundlagenforsch.* 12 (1969), 85-97. (L. J. Bass) 40 #7113

Eine Klassifikation der ε_0-rekursiven Funktionen. *Z. Math. Logik Grundlagen Math.* 17 (1971), 61-74. (A. S. Ferebee) 44 #77

Schwiderski, Ernst W.

Deficiencies in Dorodnicyn's method of integral relations. *Fundamental Topics in Relativistic Fluid Mechanics and Magnetohydrodynamics (Proc. Sympos., Michigan State Univ., 1962), pp.* 179-186. *Academic Press, New York,* 1963. (M. D. Van Dyke) 30 #2800

(with Lugt, Hans J.) Rotating flows of von Kármán and Bödewadt. *Phys. Fluids* 7 (1964), 867-875. (K. Stewartson) 29 #4337

(with Lugt, H. J.) Flows around dihedral angles. I. Eigenmotion analysis. *Proc. Roy. Soc. Ser. A* 285 (1965), 382-399. (K. Stewartson) 31 #2919a

(with Lugt, H. J.) Flows around dihedral angles. II. Analysis of regular and singular motions. *Proc. Roy. Soc. Ser. A* 285 (1965), 400-412. (K. Stewartson) 31 #2919b

(with Lugt, H. J.) Flows around dihedral angles. III. On symmetric compressible fluid flows around a flat plate. *Proc. Roy. Soc. Ser. A* 285 (1965), 413-422. (K. Stewartson) 31 #2919c

(with Lugt, Hans J.) Temperature distributions in rotating flows normal to a flat surface. *Quart. Appl. Math.* 23 (1965), 133-150. (J. F. Clarke) 31 #6534

(with Lugt, Hans J.) Birth and decay of vortices. *Phys. Fluids* 9 (1966), 851-859. (L. M. Hocking) 33 #2062

(with Lugt, H. J.; Ugincius, P.) Axisymmetric viscous fluid motions around conical surfaces. *SIAM J. Appl. Math.* 14 (1966), 191-208. (K. Stewartson) 33 #945

Schwinger, Julian

Quantum variables and group parameters. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 278-291. (S. Deser) 31 #1040

Non-Abelian gauge fields. Lorentz gauge formulation. *Phys. Rev.* (2) 130 (1963), 402-405. (C. R. Hagen) 33 #5267

Coulomb Green's function. *J. Mathematical Phys.* 5 (1964), 1606-1608. (J. M. Charap) 29 #6848

Field theory of matter. *Phys. Rev.* (2) 135 (1964), B816-B830. (H. Araki) 30 #1791

Field theory of matter. II. *Phys. Rev.* (2) 136 (1964), B1821-B1824. (H. Araki) 31 #1969

Broken symmetries and weak interactions. I, II. *Phys. Rev. Lett.* 13 (1964), 355-358; *ibid.* 13 (1964), 500-501. (J. Franklin) 31 #3062

Quantum theory of gauge fields. *Elementary Particle and High Energy Physics, pp.* 189-325. *Gordon and Breach, New York,* 1965. (P. Roman) 31 #3074

Phenomenological field theory. *Coral Gables Conferences on Symmetry Principles at High Energy,* 1965, *pp.* 372-378. *Freeman, San Francisco,* 1965. (P. Roman) 31 #5558

Field theory of particles. Notes by Hwa-tung Nieh. *Lectures on Particles and Field Theory (Brandeis Summer Institute in Theoretical Physics,* 1964, *Vol.* 2*), pp.* 144-288. *Prentice-Hall, Englewood Cliffs, N. J.,* 1965. (G. Barton) 32 #3619

Field theory of matter. IV. *Phys. Rev.* (2) 140 (1965), B158-B163. (H. Araki) 33 #5268

Magnetic charge and quantum field theory. *Phys. Rev.* (2) 144 (1966), 1087-1093. (C. R. Hagen) 33 #3647

* Quantum kinematics and dynamics. *W. A. Benjamin, Inc., New York,* 1970. x + 377 pp. (Editors) 42 #4093

Schwyrkow, W. W.

Die ökonomisch-mathematische Analyse der gegenseitigen Abhängigkeiten von Verbrauchsfunktionen. *Math. and Wirtschaft* 7 (1970), 7-25. (M. Rössler) 43 #2973

Sciama, D. W.

On the analogy between charge and spin in general relativity. *Recent developments in general relativity, pp.* 415-439. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2058

(with Ellis, G. F. R.) On a class of model universes satisfying the perfect cosmological principle. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 150-160. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (C. W. Misner) 34 #5493 (with Waylen, P. C.; Gilman, Robert C.) Generally covariant integral formulation of Einstein's field equations. *Phys. Rev.* (2) 187 (1969), 1762-1766. (H. Treder) 41 #3076

Sciamplicotti, Vilma

Applicazione del metodo di Liouville-Steckloff-Fubini per la integrazione delle equazioni differenziali lineari del 2^0 ordine. (English summary) *Rend. Mat.* (6) 3 (1970), 381-390. (N. Hayek Calil) 42 #571

Sciarrino, A.

(with Toller, M.) Decomposition of the unitary irreducible representations of the group $SL(2C)$ restricted to the subgroup $SU(1,1)$. *J. Mathematical Phys.* 9 (1967), 1252-1265. (Author's summary) 35 #6420

Ščigolev, B. M.

* Mathematical analysis of observations. Translated from the Russian by Scripta Technica, Inc. *Iliffe Books Ltd., London; American Elsevier Publishing Co., Inc., New York,* 1965. xv + 350 *pp.* (W. Uhlmann) 33 #8086

(See also Šarl'e, K., 34 #5498)

Scilard, Karl. See Szilárd, Karl.

Scimemi, Benedetto

Isomorfismi tra reticoli di sottogruppi e reticoli di sottogruppi normali. *Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* 123 (1964/65), 227-235. (J. J. Burckhardt) 33 #7419

Gruppi finiti dotati di automorfismi di ordine pq privi di coincidenze. *Rend. Sem. Mat. Univ. Padova* 38 (1967), 174-179. (H. W. Brinkmann) 36 #3869

Finite groups admitting a fixed-point-free automorphism. *J. Algebra* 10 (1968), 125-133. (D. Wales) 37 #5289

Sciuto, S.

(with Campagna, P.; Napolitano, E.; Fubini, S.) Amplitude for N nonspurious excited particles in dual resonance models. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 911-928. (P. W. Higgs) 43 #5805

Sclove, Stanley L.

Improved estimators for coefficients in linear regression. *J. Amer. Statist. Assoc.* 63 (1968), 596-606. (A. L. Nagar) 38 #5350

(with Van Ryzin, J.) Estimating the parameters of a convolution. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 181-191. (M. Stone) 42 #5374

Some remarks on normal multivariate regression. *Ann. Inst. Statist. Math.* 22 (1970), 319-326. (T. Robertson) 43 #5658

(with Van Ryzin, John) Estimating the parameters of a linear function of a random variable. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 362-368. 44 #4836

Scodranu, Alexandru

On the integration of the Riccati equation for the case in which a geometric property is expressed. (Romanian. Russian and French summaries) *Gaz. Mat. Fiz. Ser. A* 14(67) (1962), 26-33. (Author's summary) 31 #6007

Scognamiglio, Gennaro

Estensione della nozione di algebra: Algebre di secondo ordine su un'algebra di Boole. *Giorn. Mat. Battaglini* (5) 10(90) (1962), 93-108. (H. Ribeiro) 30 #4702

Analisi funzionale nelle algebre booleane. *Giorn. Mat. Battaglini* (5) 10(90) (1962), 109-137. (H. Ribeiro) 30 #4703

Trasformazioni algebriche su variabili booleane (relazioni fra matrici, determinanti ed operatori). *Giorn. Mat. Battaglini* (6) 1(91) (1963), 24-55. (P. R. Halmos) 30 #41

Filze di funzioni algebriche booleane e matrici associate. *Ricerca (Napoli)* (2) 14 (1963), *gennaio-aprile,* 22-35. (F. D. Veldkamp) 29 #4715

Algebre di matrici atte a rappresentare campi di Galois. *Giorn. Mat. Battaglini* (6) 2(92) (1964), 37-48. (F. D. Veldkamp) 37 #1351

Sulle sostituzioni monomie. *Giorn. Mat. Battaglini* (6) 2(92) (1964), 110-119. (H. Ribeiro) 37 #333

Scoins, H. I.

(with Snow, C. R.) Towards the unique decomposition of graphs. *Machine Intelligence,* 4, *pp.* 45-55. *American Elsevier, New York,* 1969. (From the authors' introduction) 40 #3755

Sconzo, Pasquale

(with LeSchack, A. R.; Tobey, R.) Symbolic computation of f and g series by computer. *Astronom. J.* 70 (1965), 269-271. (Authors' summary) 31 #5665

Scorza, Gaetano

* Opere scelte. Vol. III: (1920-1939). Pubblicate a cura dell'Unione Matematica Italiana e col contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1962. ii + 492 *pp.* (B. A. Amirà) 32 #7389

Scorza Dragoni, Giuseppe

* Elementi di analisi matematica. Vol. III: La teoria elementare dell'integrazione. *CEDAM (Casa Editrice Dott. Antonio Milani), Padova,* 1962. iii + 583 *pp.* (A. Froda (Zbl 103, 37)) 35 #1421

Renato Caccioppoli (20 gennaio 1904 - 8 maggio 1959). *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur. Appendice* 1963, 85-93. (Editors) 29 #4664

Traslazioni piane generalizzate; autoomeomorfismi della cornona circolare privi di punti uniti; autoomeomorfismi del cerchio con un punto unito solo. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 680-724. *Ediz. Cremonese, Rome,* 1965. (P. Vincensini) 33 #3183

Il teorema di rotocontrazione per una classe di autoomeomorfismi della corona circolare. *Ann. Mat. Pura Appl.* (4) 68 (1965), 267-340. (P. V. Reichelderfer) 32 #179

A proposito di un teorema di rotocontrazione per gli autoomeomorfismi della corona circolare. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 142-144. (P. V. Reichelderfer) 31 #4014

A proposito di alcuni teoremi sugli autoomeomorfismi del cerchio e della corona circolare. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 39 (1965), 151-154. (P. Vincensini) 33 #6475

A proposito degli autoomeomorfismi periodici del disco circolare. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 979-985. (M. Edelstein) 35 #1003

Sugli autoomeomorfismi del cerchio dotati di un punto unito unico e interno al cerchio. *Abh. Math. Sem. Univ. Hamburg* 31 (1967), 1-24. (P. Vincensini) 36 #767

Contrazioni di poligonali rettilinee e di poliedriche piatte. *Symposia Mathematica, Vol. II (INDAM, Rome,* 1968*), pp.* 37-70. *Academic Press, London,* 1969. (S. Cinquini) 43 #7596

Sugli autoomeomorfismi delle superficie orientabili. *Symposia Mathematica, Vol. V (INDAM, Rome,* 1969/70*), pp.* 457-467. *Academic Press, London,* 1971. (P. Vincensini) 43 #4007

Scott, Alastair

A note on conservative confidence regions for the mean of a multivariate normal. *Ann. Math. Statist.* 38 (1967), 278-280. (Z. Šidák) 36 #3455 (E)

Correction to: "A note on conservative confidence intervals for the mean of a multivariate normal". *Ann. Math. Statist.* 39 (1968), 2161. (Z. Šidák) 39 #1047

A multi-stage test for a normal mean. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 461-468. (Author's summary) 39 #7752

Scott, Anne

Infinite regular neighbourhoods. *J. London Math. Soc.* 42 (1967), 245-253. (C. H. Giffen) 35 #3672

Scott, Bruce L.

Analytic expressions for the Born approximation to certain elements of the reactance matrix in e^--H scattering. *Phys. Rev.* (2) 137 (1965), A717-A720. (M. J. Seaton) 32 #5248

Scott, D. B.

Andrew Zobel. *J. London Math. Soc.* 39 (1964), 566-567. (Editors) 31 #22

Some algebro-geometric fibre spaces. *Rend. Mat. e Appl.* (5) 25 (1966), 59-67. (B. Segre) 35 #5452

Natural lifts and the covariant systems of Todd. *J. London Math. Soc.* (2) 1 (1969), 709-718. (D. Gieseker) 40 #2675

Scott, Dana S.

More on the axiom of extensionality. *Essays on the foundations of mathematics, pp.* 115-131. *Magnes Press, Hebrew Univ., Jerusalem,* 1961. (R. O. Gandy) 29 #1137

(with Monk, D.) Additions to some results of Erdős and Tarski. *Fund. Math.* 53 (1963/64), 335-343. (A. Hajnal) 29 #3386

Invariant Borel sets. *Fund. Math.* 56 (1964), 117-128. (J. Mycielski) 30 #3027

Logic with denumerably long formulas and finite strings of quantifiers. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 329-341. *North-Holland, Amsterdam,* 1965. (E. Engeler) 34 #32

A proof of the independence of the continuum hypothesis. *Math. Systems Theory* 1 (1967), 89-111. (K. Bowen) 36 #1321

Extending the topological interpretation to intuitionistic analysis. *Compositio Math.* 20, 194-210.(1968). (B. van Rootselaar) 37 #3912

Boolean models and nonstandard analysis. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif.,* 1967*), pp.* 87-92. *Holt, Rinehart and Winston, New York,* 1969. (From the author's text) 38 #4300

On completing ordered fields. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif.,* 1967*), pp.* 274-278. *Holt, Rinehart and Winston, New York,* 1969. (G. H. Wenzel) 39 #6866

Extending the topological interpretation to intuitionistic analysis. II. *Intuitionism and Proof Theory (Proc. Conf., Buffalo, N. Y.,* 1968*), pp.* 235-255. *North-Holland, Amsterdam,* 1970. (B. van Rootselaar) 43 #25

Advice on modal logic. *Philosophical Problems in Logic. Some Recent Developments, pp.* 143-173. *Reidel, Dordrecht,* 1970. (R. I. Goldblatt) 43 #1820

Constructive validity. *Symposium on Automatic Demonstration (Versailles,* 1968*), pp.* 237-275. *Lecture Notes in Mathematics, Vol.* 125. *Springer, Berlin,* 1970. (A. Heyting) 43 #4631

(See also Axiomatic set theory, 43 #38)

The lattice of flow diagrams. *Symposium on Semantics of Algorithmic Languages, pp.* 311-366. *Lecture Notes in Mathematics, Vol.* 188. *Springer, Berlin*, 1971. (R. Petrović) 43 #4577

(with Myhill, John) Ordinal definability. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.*, 1967*), pp.* 271-278. *Amer. Math. Soc., Providence, R. I.*, 1971. (A. Lévy) 43 #7318

Scott, E. J.

A formula for the derivatives of Tchebychef polynomials of the second kind. *Amer. Math. Monthly* 71 (1964), 524-525. (Mary L. Boas) 29 #4935

On a class of linear partial differential equations with retarded argument in time. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 1-2, 99-103. (K. Zima) 41 #2243

Corrigenda: "Jacobi transforms". *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 320. (Editors) 44 #4462

Scott, Elizabeth L.

(with Neyman, J.) Problem of selection bias in the statistics of galaxies. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 1026-1050. (E. Lyttkens) 31 #1097

(with Neyman, Jerzy) On the use of $C(\alpha)$ optimal tests of composite hypotheses. (With discussion. French summary) *Bull. Inst. Internat. Statist.* 41 (1965), 477-497. (D. G. Chapman) 35 #7556

(with Neyman, Jerzy) Asymptotically optimal tests of composite hypotheses for randomized experiments with noncontrolled predictor variables. *J. Amer. Statist. Assoc.* 60 (1965), 699-721. (H. Chernoff) 32 #6606

Scott, G. P.

Homotopy links. *Abh. Math. Sem. Univ. Hamburg* 32 (1968), 186-190. (J. P. Levine) 38 #5205

Braid groups and the group of homeomorphisms of a surface. *Proc. Cambridge Philos. Soc.* 68 (1970), 605-617. (R. H. Fox) 42 #3786

A note on piecewise-linear immersions. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 257-263. (D. W. L. Sumners) 42 #6834

The space of homeomorphisms of a 2-manifold. *Topology* 9 (1970), 97-109. (M.-E. Hamstrom) 41 #9267

A note on the homotopy type of PL_2. *Proc. Cambridge Philos. Soc.* 69 (1971), 257-258. (C. W. Patty) 42 #6835

Scott, J. B.

(with Etgen, G. J.) On the conjugate points of fourth order, selfadjoint linear differential equations. *Proc. Amer. Math. Soc.* 29 (1971), 349-350. (H. C. Howard) 43 #6514

Scott, J. F.

A history of mathematics. From antiquity to the beginning of the nineteenth century. Foreword by H. W. Turnbull. Reprinting of second edition. *Taylor & Francis Ltd., London; Barnes & Noble Inc., New York*, 1969. x + 266 *pp. (6 plates)* (C. B. Boyer) 41 #1473

Scott, John T., Jr.

Factor analysis and regression. *Econometrica* 34 (1966), 552-562. (G. Tintner) 35 #6283

Scott, Leonard L., Jr.

A double transitivity criterion. *Math. Z.* 115 (1970), 7-8. (C. Hering) 42 #1886

Scott, Meckinley

Queueing with control on the arrival of certain type of customers. (French summary) *CORS J.* 8 (1970), 75-86. (N. U. Prabhu) 41 #7790

A queueing process with varying degree of service. *Naval Res. Logist. Quart.* 17 (1970), 515-523. (J. F. C. Kingman) 43 #1298

Scott, Melvin R.

(with Shampine, L. F.; Wing, G. M.) Invariant imbedding and the calculation of eigenvalues for Sturm-Liouville systems. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 10-23. (F. Perrin) 39 #7829

Invariant imbedding and the calculation of internal values. *J. Math. Anal. Appl.* 28 (1969), 112-119. (A. Leonard) 39 #7915

(with Burgmeier, J. W.) Convergence of Picard's method for $|\lambda|>|\lambda_1|$. *Amer. Math. Monthly* 77 (1970), 865-867. (K. N. Srivastava) 42 #2265

Numerical solution of unstable initial value problems by invariant imbedding. *Comput. J.* 13 (1970), 397-400. (Author's summary) 42 #8704

(with Maynard, Charles W.) Invariant imbedding of linear partial differential equations via generalized Riccati transformations. *J. Math. Anal. Appl.* 36 (1971), 432-459. (P. Nelson) 44 #7765

Scott, P. R.

The construction of perfect and extreme forms. *Canad. J. Math.* 18 (1966), 147-158. (E. S. Barnes) 32 #4091

On the sets of directions determined by n points. *Amer. Math. Monthly* 77 (1970), 502-505. (H. E. Debrunner) 41 #7538

Scott, R. A.

(with Miklowitz, Julius) Transient compressional waves in an infinite elastic plate with a circular cylindrical cavity. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 627-634. (P. Mann-Nachbar) 30 #5583

Scott, S. D.

The arithmetic of polynomial maps over a group and the structure of certain permutational polynomial groups. I. *Monatsh. Math.* 73 (1969), 250-267. (Ti Yen) 39 #5735

Scott, W. R.

* Group theory. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1964. xi + 479 *pp.* (W. E. Deskins) 29 #4785

(with Sonneborn, L. M.) Supersolvable wreath products. *Math. Z.* 92 (1966), 154-163. (Hanna Neumann) 33 #178

(with Gross, Fletcher) Solvable products of groups. *J. Algebra* 9 (1968), 414-416. (H. Lausch) 37 #1463

Maximal fields disjoint from finite sets. *Proc. Amer. Math. Soc.* 19 (1968), 1366-1368. (Ernst Kunz) 38 #143

Semi-isomorphisms of certain infinite permutation groups. *Proc. Amer. Math. Soc.* 21 (1969), 711-713. (A. R. Camina) 39 #2859

(with Amberg, Bernhard) Products of Abelian subgroups. *Proc. Amer. Math. Soc.* 26 (1970), 541-547. (E. Schenkman) 42 #1903

(with Bradway, Robert H.; Gross, Fletcher) The nilpotence class of core-free quasinormal subgroups. *Rocky Mountain J. Math.* 1 (1971), *no.* 2, 375-382. (W. E. Deskins) 43 #4912

Scott, Walter T.

(with Merkes, E. P.) Covering theorems for univalent functions. *Michigan Math. J.* 13 (1966), 41-47. (Z. Lewandowski) 32 #7729

Scotti, Antonio

(with Coulter, Philip W.; Shaw, Gordon L.) Nucleon-nucleon scattering with inelastic unitarity. *Phys. Rev.* (2) 136 (1964), B1399-B1404. (Authors' summary) 31 #1909

(with Wong, D. Y.) Multimeson resonances and nucleon-nucleon interaction. *Phys. Rev.* (2) 138 (1965), B145-B162. (M. J. Moravcski) 32 #3578

(with Duimio, F.) Model for mass splittings of baryons and mesons. *Phys. Rev. Lett.* 14 (1965), 926-928; *erratum, ibid.* 14 (1965), 1103. (M. Konuma) 32 #3603

Scott-Thomas, J. F.

(with Rogak, E. D.; Kazarinoff, N. D.) Sufficient conditions for bang-bang control in Hilbert space. *J. Optimization Theory Appl.* 5 (1970), 1-11. (L. Cesari) 44 #3170

Scouarnec, Christian

Équations aux différences finies pour l'équation biharmonique. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A761-A763. (J. H. Bramble) 35 #7606

Résolution d'un système d'équations linéaires par la méthode "croix-alphanumérique". *Rev. CETHEDEC No.* 12 (1967), 79-82. (B. N. Parlett) 37 #2423a

Quelques conséquences de la méthode croix-alphanumérique. *Rev. CETHEDEC No.* 12 (1967), 83-85. (B. N. Parlett) 37 #2423b

Résolution numérique de l'opérateur biharmonique par la méthode de "l'intégrale curviligne". *Rev. CETHEDEC No.* 13 (1968), 47-54. (Editors) 38 #878

Équations aux différences finies pour l'opérateur harmonique et biharmonique en coordonnées quelconques. *Rev. CETHEDEC No.* 13 (1968), 55-62. 38 #879

L'équation biharmonique pour les systèmes possédant la symétrie de révolution (étude toute particulière pour les points de l'axe $\overrightarrow{Oz}$ de symétrie). *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A881-A813. (Author's summary) 39 #5072

Conséquences numériques du théorème de Cayley-Hamilton de l'analyse spectrale. *Rev. CETHEDEC No.* 17 (1969), 55-73. (H. Schwerdtfeger) 40 #6759

Résolution d'un système d'équations linéaires par la méthode des bases successives. *Rev. CETHEDEC No.* 20 (1969), 79-88. (J. G. Herriot) 42 #5436

Scourfield, E. J.

On the divisibility of $\sigma_\nu(n)$. *Acta Arith.* 10 (1964), 245-285. (L. Mirsky) 30 #3074

On the divisibility of a modified divisor function. *Proc. London Math. Soc.* (3) 21 (1970), 145-159. (W. Narkiewicz) 42 #3032

Scoville, R. A.

(with Carlitz, L.; Roselle, D. P.) Permutations and sequences with repetitions by number of increases. *J. Combinatorial Theory* 1 (1966), 350-374. (J. Riordan) 34 #77

Some measure algebras on the integers. *Pacific J. Math.* 34 (1970), 769-779. (R. A. Horn) 42 #3252

(with Carlitz, L.; Roselle, D. P.) Some remarks on ballot-type sequences of positive integers. *J. Combinatorial Theory Ser. A* 11 (1971), 258-271. (M. S. Cheema) 43 #7351

Scozzafava, Romano

(with Boffi, V. C.; Knoke, F.; Molinari, V. G.) Exact and asymptotic solution of the energy-dependent Boltzmann equation in the study of the neutron slowing down. *Ann. Physics* 27 (1964), 283-296. (G. M. Wing) 29 #6896

On the complex zeros of an exponential polynomial occurring in the study of the stability of a vacuum diode. *J. Math. and Phys.* 45 (1966), 104-108. (O. Shisha) 33 #3593

(with Boffi, V.) Sull'equazione funzionale lineare $f'(x) = - A(x)f(x-1)$. *Rend. Mat. e Appl.* (5) 25 (1966), 402-410. (O. Em. Gheorghiu) 36 #1786

(with Boffi, V.) A first-order linear differential-difference equation with N delays. *J. Math. Anal. Appl.* 17 (1967), 577-589. (K. L. Cooke) 35 #6950

Singolarità isolate di soluzioni di equazioni ellittiche non variazionali. (English summary) *Matematiche (Catania)* 23 (1968), 151-159. (A. Haimovici) 39 #3150

Scraton, R. E.

Estimation of the truncation error in Runge-Kutta and allied processes. *Comput. J.* 7 (1964), 246-248. (H. J. Stetter) 31 #6382

The solution of linear differential equations in Chebyshev series. *Comput. J.* 8 (1965), 57-61. (C. W. Clenshaw) 32 #603

A procedure for summing asymptotic series. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 317-324. (L. Hoischen) 41 #5834

The solution of integral equations in Chebyshev series. *Math. Comp.* 23 (1969), 837-844. (D. Elliott) 41 #4852

A note on the summation of divergent power series. *Proc. Cambridge Philos. Soc.* 66 (1969), 109-114. (D. C. Russell) 39 #5981

A method for improving the convergence of Chebyshev series. *Comput. J.* 13 (1970), 202-203. (Author's summary) 41 #4772

criba, Carl-Heinz

Über das Integrationsverfahren von H. Grunsky und F. W. Schäfke (English and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 243-251. (W. Strodt) 31 #466

Über die Differenzierbarkeit der radialen Lösung einer expliziten vektoriellen Differentialgleichung erster Ordnung. *Math. Nachr.* 32 (1966), 25-40. (J. Prouse) 34 #6272

Über die Verallgemeinerung des Cartanschen Kalküls auf unendlichdimensionale Vektorräume. *Math. Nachr.* 32 (1966), 297-306. (J. D. Zund) 34 #8319

Der Eulersche Transformator eines Feldes stetiger linearer Operatoren. *Math. Nachr.* 35 (1967), 169-233. (J. H. McAlpin) 37 #2269

Über koordinatenfreie Differentialgeometrie. *Monatsh. Math.* 72 (1968), 224-238. (D. Laugwitz) 37 #2101

Über die Verallgemeinerung des Cartanschen Kalküls auf unendlichdimensionale Vektorräume. II. *Math. Nachr.* 40 (1969), 265-276. (J. D. Zund) 40 #1920

Heuristische Bemerkungen zur Lösung quasilinearer vektorieller Differentialgleichungen erster Ordnung in reellen Banach-Räumen. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 557-566. (J. Prouse) 41 #2184

Der Eulersche Transformator eines Feldes stetiger linearer Operatoren. II. *Math. Nachr.* 44 (1970), 151-155. (M. Klingmann) 43 #1228

Der charakteristische Transformator eines Feldes stetiger alternierend multilinearer Operatoren. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 755-825. (H. H. Johnson) 44 #7596

criba, Christoph J.

Bemerkungen zu einem zahlentheoretischen Problem von Roberval. *Nova Acta Leopoldina (N. F.)* 27 (1963), 339-349. (G. P. Matvievskaja) 41 #5161

The inverse method of tangents: A dialogue between Leibniz and Newton (1675-1677). *Arch. History Exact Sci.* 2, 113-137 (1964/65). (G. Huxley) 31 #2114

Wallis und Harriot. *Centaurus* 10 (1965), 248-257. (D. J. Struik) 32 #2301

* Studien zur Mathematik des John Wallis (1616-1703). Winkelteilungen, Kombinationslehre und zahlentheoretische Probleme. Im Anhang die Bücher und Handschriften von Wallis. Boethius Texte und Abhandlungen zur Geschichte der Exakten Wissenschaften, Band VI. *Franz Steiner Verlag GmbH, Wiesbaden,* 1966. x + 144 *pp. (4 plates)* F. Krafft) 40 #1241

A tentitive index of the correspondence of John Wallis, F.R.S. *Notes and Records Roy. Soc. London* 22 (1967), 58-93. (F. C. Kreiling) 40 #5398

* The concept of number. A chapter in the history of mathematics, with applications of interest to teachers. With the assistance of M. E. Dormer Ellis. B. I. Hochschulskripten, 825/825a. *Bibliographisches Institut, Mannheim-Zürich,* 1968. vi + 216 *pp.* (G. P. Matvievskaja) 39 #2574

Geschichte der Mathematik. B. I. Hochschultaschenbücher 161/161a. *Überblicke Math.* 1 (1968), 9-33. (C. B. Boyer) 39 #1264

Neue Dokumente zur Entstehungsgeschichte des Prioritätsstreites zwischen Leibniz und Newton um die Erfindung der Infinitesimalrechnung. *Studia Leibnitiana. Supplementa, Vol. II (Akten des Internat. Leibniz-Kongresses, Hannover,* 1966. *Band II), pp.* 69-78. *Steiner, Wiesbaden,* 1969. (J. E. Hofmann) 40 #2505

cribner, Charles, Jr.

Henri Poincaré and the principle of relativity. *Amer. J. Phys.* 32 (1964), 672-678. (Mary L. Boas) 31 #4711

Scribner, D. R.

Infinite nodal noncommutative Jordan algebras; differentiably simple algebras. *Trans. Amer. Math. Soc.* 156 (1971), 381-389. (A. A. Sagle) 43 #307

The Lie algebra of the structure group of a power-associative algebra. *Proc. Amer. Math. Soc.* 31 (1972), 363-367. (T. S. Ravisankar) 44 #5352

Scrimger, Edward B.

(with Brualdi, Richard A.) Exchange systems, matchings, and transversals. *J. Combinatorial Theory* 5 (1968), 244-257. (E. C. Milner) 38 #55

Scripcariu, C.

(with Pavel, P.) A quadrature formula with inner and outer nodes and its application to the numerical integration of differential equations. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 2, 65-74. (A. H. Stroud) 35 #3880

Scriven, L. E.

(with Sternling, C . V.) On cellular convection driven by surface-tension gradients: Effects of mean surface tension and surface viscosity. *J. Fluid Mech.* 19 (1964), 321-340. (W. Langlois) 29 #1842

Scroggs, James E.

(with Odell, Patrick L.) An alternate definition of a pseudoinverse of a matrix. *SIAM J. Appl. Math.* 14 (1966), 796-810. (Burton W. Jones) 34 #4288

Scrucca, Emilia

Sul comportamento asintotico delle soluzioni di una classe di equazioni del secondo ordine non lineari. (English summary) *Boll. Un. Mat. Ital.* (3) 21 (1966), 168-173. (M. Ráb) 33 #7633

Un problema ai limiti quasi lineare in spazi di Banach. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 361-364. (J. Prouse) 36 #5483

Scruton, Teresa

Bounds for the class of nilpotent wreath products. *Proc. Cambridge Philos. Soc.* 62 (1966), 165-169. (Hanna Neumann) 32 #5721

Scudder, H. J., III

Probability of error of some adaptive pattern-recognition machines. *IEEE Trans. Information Theory* IT-11 (1965), 363-371. (D. D. Sworder) 32 #5442

Ščukin, B. A.

(with Aleksandrov, V. M.; Batkov, A. M.; Staroverov, A. N.) An investigation of the accuracy of nonlinear non-stationary systems by means of a statistical linearization method. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 492-499. (Authors' summary) 30 #5854

Ščukin, K. K.

Remarks on primary groups. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 9-11. (B. Plotkin(RŽMat 1963 #8 A149)) 37 #6363

On verbal radicals of groups. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 97-99. (M. Greendlinger) 35 #4288

Approximation by prime groups. (Russian) *Studies in General Algebra, No. 1 (Russian), pp.* 110-119. *Kišinev. Gos. Univ., Kišhinev,* 1968. (D. I. Zaĭcev) 41 #354

Sculthorpe, Diane

(with Aitchison, J.) Some problems of statistical prediction. *Biometrika* 52 (1965), 469-483. (D. V. Lindley) 34 #6900

Ščurić-Čudovan, Vlasta

Singulariteten des Majcenschen Strahlenkomplexes. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23)(1968), 117-139. (S. S. Subramanyan) 38 #6437

Über die Rotationsflächen in einem Flächenbüschel. Grades und über ein Rotationsflächenbüschel. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23) (1968), 275-286. (D. Gallarati) 38 #6438

Scutaru, I. H.

Jacobi coordinates for identical particle systems. *Rev. Roumaine Phys.* 15 (1970), 257-260. (N. S. Mendelsohn) 42 #7526

Sdobyrev, V. P.

Some properties of plane and three-dimensional bodies. *Prikl. Mat. Meh.* 34 (1970), 132-134 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 120-123. (A. Florian) 43 #5412

Še, Din-fan. See Hsieh T'ing-fan.

Se, Tin-fan. See Hsieh T'ing-fan.

Sea, Ronald G.

(with Singer, Robert A.) Increasing the computational efficiency of discrete Kalman filters. *IEEE Trans. Automatic Control* AC-16 (1971), 254-257. (Richard Gran) 44 #4863

Seagraves, Paul

Representation of permutation operators in quantum mechanics. *Nuclear Phys.* 80 (1966), 674-680. (G. R. Allcock) 33 #8164

Seal, C. E.

(with Stubberud, Allen R.) Canonical forms for multiple-input time-variable systems. *IEEE Trans. Automatic Control* AC-14 (1969), 704-707. (Authors' summary) 42 #8972

Seal, Hilary L.

Studies in the history of probability and statistics. XV. The historical development of the Gauss linear model. *Biometrika* 54 (1967), 1-24. (Editors) 35 #5021

Seall, Robert

(with Wetzel, Marion) Quadratic forms and chain sequences. *Proc. Amer. Math. Soc.* 15 (1964), 729-734. (W. T. Scott) 29 #3787

Searl, J. W.

Expansions for singular perturbations. *J. Inst. Math. Appl.* 8 (1971), 131-138. (Claude Demuth) 44 #5577

Searle, N. H.

Shape analysis by use of Walsh functions. *Machine Intelligence, 5, pp.* 395-410. *American Elsevier, New York,* 1970. (R. L. Kashyap) 41 #5113

Searle, S. R.

The value of indirect selection. I. Mass selection. *Biometrics* 21 (1965), 682-707. 32 #1031

Additional results concerning estimable functions and generalized inverse matrices. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 486-490. (P. S. Dwyer) 33 #3407

Topics in variance component estimation. *Biometrics* 27 (1971) (1971), 1-76. (From the author's summary) 43 #1339

Searls, Donald T.

An estimator for a population mean which reduces the effect of large true observations. *J. Amer. Statist. Assoc.* 61 (1966), 1200-1204. (Author's summary) 34 #5204

Sears, Francis Weston

A simplified simplification of Carathéodory's treatment of thermodynamics. *Amer. J. Phys.* 31 (1963), 747-752. (Editors) 31 #1023

Sears, V. F.

Theory of the Schottky anomaly for strong spin-lattice coupling. *Proc. Phys. Soc.* 84 (1964), 951-967. (A. A. Maradudin) 31 #5621

Sears, William R.

(with Mori, Yasuo) Studies of the inviscid boundary layer of magnetohydrodynamics. *Progress in Applied Mechanics, pp.* 3-16. *Macmillan, New York,* 1963. (H. Hasimoto) 29 #874

(with Resler, E. L., Jr.) Magneto-aerodynamic flow past bodies. *Advances in Applied Mechanics, Vol.* 8, *pp.* 1-68. *Academic Press, New York,* 1964. (J. E. McCune) 30 #828

Some recollections of Theodore von Kármán. *J. Soc. Indust. Appl. Math.* 13 (1965), 175-183. 31 #1171

The boundary layer in crossed-fields m.h.d. *J. Fluid Mech.* 25 (1966), 229-240. (K. Stewartson) 34 #1021

Seaton, M. J.

(with Rudge, M. R. H.) Ionization of atomic hydrogen by electron impact. *Proc. Roy. Soc. Ser. A* 283 (1965), 262-290. (L. M. Delves) 30 #3720

Šebalina, O. P.

(with Gorbunov, A. D.) Predicting-correcting methods with optimum correction formulae. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 275-280. *Izdat. Moskov. Univ., Moscow,* 1965. (M. Urabe) 33 #1971

Sebastian, J. D.

Some computer solutions to the reflecting queens problem. *Amer. Math. Monthly* 76 (1969), 399-400. (D. A. Klarner) 39 #4018

Sebastiani, Marcos

Sur les nombres caractéristiques des feuilles d'un certain type de variétés feuilletées. *C. R. Acad. Sci. Paris* 260 (1965), 1055-1058. (B. L. Reinhart) 30 #5330

Sur l'invariant d'Eilenberg-MacLane d'un groupe fini opérant sur une sphère. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A897-A900. (R. Brown) 33 #3293

Quelques critères topologiques de simplicité pour un certain type de variétés algébriques. (Spanish summary) *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadíst.* 4, 89-95 (1967). (H. Mizuno) 37 #4074

Sur les feuilletages à groupe d'holonomie fini et feuilles compactes. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 331-336 (1969). (Enrique Vidal) 39 #6349

Sur les difféomorphismes cycliques des sphères avec deux points fixes. *C. R. Acad. Sci. Paris Ser. A - B* 267 (1968), A980-A982. (M. L. Curtis) 39 #3502a

Sur les difféomorphismes cycliques des sphères avec deux points fixes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A15-A17. (M. L. Curtis) 39 #3502b

Simplicité algébrique et simplicité topologique des espaces quotients. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1183-A1184. (Author's summary) 39 #3030

Une nouvelle démonstration d'un théorème de R. Thom. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A229-A232. (Edgar H. Brown, Jr.) 40 #3561

s-parallélisabilité équivariante. (English summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 21-35. (C. B. Thomas) 41 #9290

Sur les actions à deux points fixes de groupes finis sur les sphères. *Comment. Math. Helv.* 45 (1970), 405-439. (H. Scheerer) 43 #4067

Preuve d'une conjecture de Brieskorn. (English summary) *Manuscripta Math.* 2 (1970), 301-308. (J. P. Levine) 42 #2510

Sebastião e Silva, José

Integrals and orders of growth of distributions. (French summary) *Theory of Distributions (Proc. Internat. Summer Inst., Lisbon, 1964), pp.* 327-390. *Inst. Gulbenkian Ci., Lisbon,* 1964. (A. H. Zemanian) 35 #7124

À propos d'un article publié dans le fascicule précédent de cette revue. *Univ. Lisboa Revista Fac. Ci. A* (2) 11 253-256 (1965/66). (W. F. Ames) 38 #433

On Weyl's lemma in the context of ultradistributions. (Portugese) *An. Fac. Ci. Univ. Porto* 50 (1967), 49-57. (J. Horváth) 41 #818

Les séries de multipôles des physiciens et la théorie des ultradistributions. *Math. Ann.* 174 (1967), 109-142. (W. Güttinger) 36 #686

Seber, G. A. F.

The linear hypothesis and large sample theory. *Ann. Math. Statist.* 35 (1964), 773-779. (J. Machek) 29 #4168

Linear hypotheses and induced tests. *Biometrika* 51 (1964), 41-47. (H. E. Reinhardt) 30 #5422

The linear hypothesis and idempotent matrices. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 261-266. (W. Kruskal) 32 #8449

A note on the multiple-recapture census. *Biometrika* 52 (1965), 249-259. (J. N. Darroch) 35 #1122

* The linear hypothesis: A general theory. Griffin's Statistical Monographs & Courses, No. 19. *Charles Griffin & Co., Ltd., London; Hafner Publishing Co., New York,* 1966. viii + 115 *pp.* (E. J. Williams) 37 #4921

Asymptotic linearisation of non-linear hypotheses. *Sankhyā Ser. A* 29 (1967), 183-190. (D. R. Truax) 39 #2253

Sebeşan, Ioan

(with Bădescu, Radu; Naneş, Cornelia) Intégrales riemanniennes généralisées dans les espaces R^m. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A202-A205. (W. D. L. Appling) 37 #5337

(with Bădescu, Rado; Naneş, Cornelia) Intégrales riemanniennes généralisées dans les espaces $\mathscr{E}^m$ $(m>1)$. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 667-671. (S. Foglio) 41 #8603

(with Bădescu, Radu; Naneş, Cornelia) Intégrales généralisées dans $\mathscr{E}^m (m\geq 2)$. (Italian and English summaries) *Rend. Ist. Mat. Univ. Trieste* 1 (1969), *fasc.* 1, 68-79. (W. J. Wilbur) 40 #7399

Sebestik, Jan

Bernard Bolzano et son mémoire sur le théorème fondamental de l'analyse. *Rev. Histoire Sci. Appl.* 17 (1964), 129-164. (J. E. Hofmann) 30 #1024

Sebestyén, A.

(with Nyíri, J.) Algebraic methods in the theory of special unitary groups. I. Calculation of generator matrix elements. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 21 (1966), 243-253. (R. Mirman) 34 #4410

(with Nyíri, J.) Algebraic methods in the theory of special unitary groups. II. Quasispin and multiplet structure. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 23 (1967), 37-51. (Authors' introduction) 35 #1708.

Sebestyén, Zoltán

Continuous involutions in Banach algebras. (Hungarian. English summary) *Mat. Lapok* 20 (1969), 133-136. (Author's summary) 40 #6271

Seborg, Dale E.

(with Johnson, Ernest F.) Construction of regions of stability for nonlinear systems containing time delays. *Eleventh Joint Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp.* 246-253. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8083

Sec, Antoinette

Sur certains feuilletages de dimension 1 de R^3. *C. R. Acad. Sci. Paris Ser. A - B* 266 (1968), A351-A353. (W. R. Utz) 37 #6958

(with Gérard, Raymond) Feuilletages de Painlevé et équations de Pfaff. *C. R. Acad. Sci. Paris Ser. A - B* 270 (1970), A1166-A1169. (Enrique Vidal) 41 #9285

Feuilletage défini par une équation de Riccati dans $E = C^n \times P_1(C)$. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A121-A122. (Enrique Vidal) 43 #4062

Seckler, Bernard D.

(See Šilov, G. E., 37 #5694)

Secrest, Don H.

Numerical integration of arbitrarily spaced data and estimation of errors. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 52-68. (P. C. Hammer) 31 #4176

Error bounds for interpolation and differentiation by the use of spline functions. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 440-447. (O. Shisha) 33 #6231

Best approximate integration formulas and best error bounds. *Math. Comp.* 19 (1965), 79-83. (S. Haber) 33 #1967

* (with Stroud, A. H.) Gaussian quadrature formulas. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1966. ix + 374 pp. (P. C. Hammer) 34 #2185

Šeda, Valter

On the properties of linear differential equations of the second order in the complex domain. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp.* 179-186. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York*, 1963. (Z. Nehari) 30 #5009

On the concept of an inverse analytic function. (Czech. Russian and German summaries) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 13 (1963), 177-192. (R. Výborný) 33 #5870

Some theorems on linear differential equations of second order of Jacobi type in the complex plane. (Russian. Slovak and German summaries) *Časopis Pěst. Mat.* 88 (1963), 29-58; *correction, ibid.* 89 (1964), 359-361. (J. C. Lillo) 32 #2653

An application of the principal theorem of conformal mapping in the theory of linear differential equations of second order. (Russian. Czech and German summaries) *Časopis Pěst. Mat.* 89 (1964), 10-27. (Z. Nehari) 32 #5961

Über die Existenz der linearen Differentialgleichungen zweiter Ordnung im komplexen Gebiet, welche den Differentialgleichungen mit konstanten Koeffizienten ähnlich sind. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian.* 10, *fasc.* 3, 31-40 (1965). (H. Hochstadt) 38 #2363

Über die Transformation der linearen Differentialgleichungen *n*-ter Ordnung. I. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 90 (1965), 385-412. (D. Willett) 33 #4356

An application of Green's function in the differential equations. *Diff. Equations and their Applications, Equadiff II (Proc. Conf., Bratislava, 1966), pp.* 221-235. *Slov. Ped. Nakladat'., Bratislava*, 1967. (L. Janos) 40 #3362

On a class of linear differential equations of order n, $n \geq 3$. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 247-261. (D. Willett) 36 #5442

Über die Transformation der linearen Differentialgleichungen *n*-ter Ordnung. II. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 418-435. (D. Willett) 37 #5454

A remark to quasilinearization. *J. Math. Anal. Appl.* 23 (1968), 130-138. (J. W. Daniel) 37 #2436

A comparison theorem in the theory of the second-order linear differential transformations. *Arch. Math. (Brno)* 5 (1969), 7-17. (R. Grimmer) 43 #620

On some properties of a solution of the Schwarzian differential equation. *Czechoslovak Math. J.* 19(94) (1969), 91-98. (H. Herold) 40 #5965

An application of the second-order linear differential transformations to a non-linear differential equation. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1969, *číslo* 500, 31-36. (R. P. de Figueiredo) 43 #2272

A remark to theory of the heat equation. *Ann. Mat. Pura Appl.* (4) 86 (1970), 357-365. (D. T. Haimo) 42 #8101

On the existence of a generalized solution to the first initial-boundary value problem for a nonlinear parabolic equation. *Ann. Mat. Pura Appl.* (4) 87 (1970), 375-388. (K. Hawlitschek) 43 #3633

Sedaev, A. A.

A certain problem in plane topology. (Russian) *Mat. Zametki* 5 (1969), 709-718. (A. Lelek) 40 #6521

The structure of certain linear operators. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 1 (15), 166-175. (N. Tiţa) 43 #2540

Šedivá, Věra. See Šedivá-Trnková, Věra.

Šedivá-Trnková, Věra

The closure of classes of spaces under ω-mappings. (Russian. English summary) *Czechoslovak Math. J.* 14(89) (1964), 327-340. (M. Katětov) 32 #3032

Topologies on products and decompositions of topological spaces. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 527-547. (B. J. Ball) 31 #709

On the closure of classes of spaces under ω-mappings. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 272-274. (S. Mardešić) 29 #2778

Sum of categories with amalgamated subcategory. *Comment. Math. Univ. Carolinae* 6 (1965), 449-474. (M. Barr) 32 #7622

Limits in categories and limit-preserving functors. *Comment. Math. Univ. Carolinae* 7 (1966), 1-73. (J. Sonner) 33 #5701

Universal categories. *Comment. Math. Univ. Carolinae* 7 (1966), 143-206. (F. E. J. Linton) 34 #2667

Universal category with limits of finite diagrams. *Comment. Math. Univ. Carolinae* 7 (1966), 447-456. (M. Barr) 34 #2668

(with Hedrlín, Z.; Pultr, A.) Concerning a categorial approach to topological and algebraic theories. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos., 1966), pp.* 176-181. *Academia, Prague*, 1967. (From the authors' introduction) 37 #6344

Completions of small subcategories. *Comment. Math. Univ. Carolinae* 8 (1967), 581-633. (D. Pumplün) 38 #213

(with Pultr, A.) On realization and boundability of concrete categories in which the morphisms are choiced by local conditions. *Comment. Math. Univ. Carolinae* 8 (1967), 651-662. (F. E. J. Linton) 38 #211

Strong embedding of category of all groupoids into category of semigroups. *Comment. Math. Univ. Carolinae* 9 (1968), 251-256. (A. Pultr) 38 #5682a

(with Goralčík, Pavel) On products in generalized algebraic categories. *Comment. Math. Univ. Carolinae* 10 (1969), 49-89. (D. Pumplün) 40 #201

Some properties of set functors. *Comment. Math. Univ. Carolinae* 10 (1969), 323-352. (P.-A. Grillet) 40 #5694

When the product-preserving functors preserve limits. *Comment. Math. Univ. Carolinae* 11 (1970), 365-378. (J. F. Kennison) 42 #6073

(with Reiterman, Jan) On full embeddings of categories of algebras into categories of functors with thin domain. *Comment. Math. Univ. Carolinae* 12 (1971), 419-422. (F. E. J. Linton) 44 #4071

Sedjakin, N. M.

Pulse coincidence between stationary related pulse trains. *Radiotehn. i Èlektron.* 9 (1964), 791-799 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 642-649. (Author's summary) 33 #2469

Sedláček, Jiří

Some properties of interchange graphs. *Theory of Graphs and its Applications (Proc. Sympos. Smolenice, 1963), pp.* 145-150. *Publ. House Czechoslovak Acad. Sci., Prague*, 1964. (J. W. Moon) 30 #3468

* Kombinatorika v teorii a praxi. Úvod do teorie grafů. (Czech) [Combinatorics in theory and practice. Introduction to the theory of graphs] *Naklad. Československé Akad. Věd, Prague*, 1964. 150 *pp.* (A. Kotzig) 32 #7451

Directed graphs and their incidence matrices. (Czech and Russian summaries) *Časopis Pěst. Math.* 90 (1965), 435-441. (P. J. Higgins) 32 #7452

(with Liebl, Petr) Umformung von Quadratmatrizen auf quasitrianguläre Form mit Mitteln der Graphentheorie. (Czech, Russian and English summaries) *Apl. Mat.* 11 (1966), 1-9. (F. Harary) 33 #4069

On the spanning trees of finite graphs. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 91 (1966), 221-227. (Author's summary) 33 #3961

* Теория на графите. (Bulgarian) [The theory of graphs] Translated from the Czech by G. Petrov. *Nauka i Izkustvo, Sofia*, 1967. 139 *pp.* (Editors) 39 #89

Finite graphs and their spanning trees. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 338-342. (W. Imrich) 36 #5021

* Einführung in die Graphentheorie. Aus tschechischem Original vom Autor übersetzt. Mathematische Schülerbücherei, No. 40. *B. G. Teubner Verlagsgesellschaft, Leipzig*, 1968. 171 *pp.* (Editors) 38 #1007

On the number of spanning trees of finite graphs. (Czech summary) *Časopis Pěst. Mat.* 94 (1969), 217-221, 222. (L. W. Beineke) 40 #4163

Lucas numbers in graph theory. (Czech. English summary) *Mathematics (Geometry and Graph Theory) (Czech), pp.* 111-115. *Univ. Karlova, Prague*, 1970. (Author's summary) 43 #3171

On a set system. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 329-330. (E. C. Milner) 42 #117

On the minimal graph with a given number of spanning trees. *Canad. Math. Bull.* 13 (1970), 515-517. (H. V. Kronk) 42 #7553

Regular graphs and their spanning trees. (Czech summary) *Časopis Pěst. Mat.* 95 (1970), 420-426. (E. A. Nordhaus) 44 #110

Sedláček, Z.

Mikhailovsky's finite Larmor radius effects and gravitational instability of plasma, treated by method of moments of Boltzmann-Vlasov equation. *Czechoslovak J. Phys. Sect. B* 15 (1965), 495-505. (J. Tjøtta-Naze) 32 #7138

The use of polarized coordinates for solving the macroscopic equations of collisionless plasma. *Czechoslovak J. Phys. Sect. B* 16 (1966), 296-313. (Author's summary) 33 #3594

Sedlák, Jan

A method of studying varieties. (Czech. Russian and English summaries) *Sb. Vysoké. Učení Tech. Brno* 1966, 89-99. (V. Havel) 35 #904

Sedleckiĭ, A. M.

The representation of functions periodic in the mean by sequences of Dirichlet polynomials. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 6, 362-391. (P. C. Sikkema) 37 #4467

Functions periodic in the mean. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1391-1415. (H. Tornehave) 43 #3734

Sedlock, James T.

Green's relations on a periodic semigroup. *Czechoslovak Math. J.* 19(94) (1969), 318-323. (M. Yamada) 39 #5741

Sedněva, M. P. See Sedņova, M.

Sedņova, M.

Some remarks on infinite-dimensional linear groups. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1965, *no.* 6, 59-62. (H. Salzmann) 33 #5744

Sedo, R. I.

(with Syčev, A. V.) The continuation of quasiconformal mappings to multidimensional spaces of higher dimension. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 1278-1279. (V. Mićić) 43 #7628

Sedol, Ja. Ja. See Sedols, J.

Sedols, J.

The free product of associative calculi with joined subalphabets and certain related questions. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1034-1037. (V. Vučković) 29 #4687

Algebraic methods of calculation of not completely accessible schemes. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 2 (Russian), pp.* 299-319. *Izdat. "Zinatne", Riga,* 1966. (I. Cederbaum) 37 #1188

(with Jonins, G.; Rozītis, T.) A study of the search for a free line in systems with losses. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 6 (Russian), pp.* 65-80. *Izdat. "Zinatne", Riga,* 1969. (Authors' summary) 41 #2807

The application of the method of sequential approximations to the calculation of queueing systems. (Russian. Latvian and English summaries) *Latvina Math. Yearbook, 6 (Russian), pp.* 157-164. *Izdat. "Zinatne", Riga,* 1969. (Author's summary) 41 #2800

Investigation of limited access schemes under heavy loads. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 6 (Russian), pp.* 165-186. *Izdat. "Zinatne", Riga,* 1969. (Author's summary) 41 #3092

(with Joņins, G.) An investigation of telephone systems involving repeated calls. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 7 (Russian), pp.* 71-83. *Izdat. "Zinatne", Riga,* 1970. (R. Salia) 43 #5901

(with Joņins, G.) Determination of the probability of double connections. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 8 (Russian), pp.* 93-101. *Izdat. "Zinatne", Riga,* 1970. (Authors' summary) 42 #5359

Sedov, A.

(with Nariboli, G. A.) Burger's-Korteweg-De Vries equation for viscoelastic rods and plates. *J. Math. Anal. Appl.* 32 (1970), 661-677. (H. R. Aggarwal) 42 #5493

Sedov, Leonid Ivanovich

(with Lohin, V. V.) Description of point groups of symmetry with the help of tensors. *Dokl. Akad. Nauk SSSR* 149 (1963), 796-797 (1 *insert*) (*Russian*); *translated as Soviet Physics Dokl.* 8 (1963), 344. (1 *insert*) (A. J. M. Spencer) 31 #2034

* (with Keldyš, M. V.) Приложения теории функций комплексного переменого к гидродинамике и аэродинамике. (Обзор некоторых работ московской школы) (Russian) [Applications of the theory of functions of a complex variable in hydrodynamics and aerodynamics. (A survey of some works of the Moscow school)] *Izdat. "Nauka", Moscow,* 1964. 46 *pp.* 31 #6450

(See also Applications of the theory of functions in continuum mechanics, 32 #4889a and Applications of the theory of functions in continuum mechanics, 32 #4889b)

(with Keldyš, M. V.) Applications of the theory of functions of a complex variable to hydrodynamics and aerodynamics (review of some works of the Moscow school). (Russian) *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi, 1963), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 13-42 *(Russian); pp.* 43-64 *(English). Izdat. "Nauka", Moscow,* 1965. (M. D. Friedman) 33 #3575

* Introduction to the mechanics of a continuous medium. Translated from the Russian by Scripta Technica, Inc. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1965. xvi + 270 *pp.* (C. Truesdell) 33 #2026a

(See also Analytic mechanics, 34 #2a; Vibrations. Gyroscopics, 34 #2b; and Mechanics of a solid body, 34 #2c)

* Two-dimensional problems in hydrodynamics and aerodynamics. Translated from the Russian and edited by C. K. Chu, H. Cohen and B. Seckler. *Interscience Publishers [John Wiley & Sons Inc.], New York-London-Sydney,* 1965. xv + 427 *pp.* (Editors) 35 #1266

The energy-momentum tensor and macroscopic internal interactions in a gravitational field and in material media. *Dokl. Akad. Nauk SSSR* 164 (1965), 519-522 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 824-826. (H. Treder) 32 #8994

On the ponderomotive forces of interaction of an electromagnetic field and an accelerating material continuum, taking into account finite deformations. *Prikl. Mat. Meh.* 29 (1965), 4-17 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 2-17 (1966). (Y. M. Chen) 33 #3595

Mathematical methods for constructing new models of continuous media. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 5 (125), 121-180. (J. Hubert Wilkinson) 33 #922

* Foundations of the non-linear mechanics of continua. Translated from the Russian by Rebecca Schoenfeld-Reiner. English translation edited by J. E. Adkins and A. J. M. Spencer. *Pergamon Press, Oxford-New York-Paris,* 1966. xvi + 252 *pp.* (C. Truesdell) 33 #2026b

(See also Mechanics in the USSR in the last 50 years in four volumes. Vol. I: General and applied mechanics, 39 #2371)

(with Aleksandrov, P. S.; Bogoljubov, N. N.; Migirenko, G. S.; Petrovskiĭ, I. G.; Sobolev, S. L.) Mihail Alekseevič Lavrent'ev (on his seventieth birthday). (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 6 (156), 5-8. (Editors) 44 #5201

Sedov, V. N.

A variational method of solving nonregular elliptic equations. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1012-1015. (A. D. Solomon) 40 #543

Sedova, K. K.

(with Leonov, N. N.; Baltovskiĭ, I. S.) The dynamics of single channel relay extremal systems of difference type. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 12 (1969), 341-351. (A. Halanay) 43 #5949

Sedrakjan, D. M.

(with Bolotovskiĭ, B. M.) Particle emission from the open end of a waveguide. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 2, 119-126. (E. L. Hill) 29 #1880

Radiation of a uniformly moving filament traversing a metal screen. *Ž. Tehn. Fiz.* 34 (1964), 718-724 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 551-554. (E. Meister) 32 #5021

Sedrakyan, D. M. See Sedrakjan, D. M.

Sedransk, J.

A double sampling scheme for analytical surveys. *J. Amer. Statist. Assoc.* 60 (1965), 985-1004. (T. Dalenius) 33 #1946

Analytical surveys with cluster sampling. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 264-278. 33 #5073

An application of sequential sampling to analytical surveys. *Biometrika* 53 (1966), 85-97. (C. Hayashi) 33 #5074

Designing some multi-factor analytical studies. *J. Amer. Statist. Assoc.* 62 (1967), 1121-1139. (C. Hayashi) 36 #3487

(with Booth, Gordon) Planning some two-factor comparative surveys. *J. Amer. Statist. Assoc.* 64 (1969), 560-573. 39 #7784

Some elementary properties of systematic sampling. *Skand. Aktuarietidskr.* 1969, 39-47. (Author's summary) 40 #8209

Sedyakin, N. M. See Sedjakin, N. M.

Sędziwy, Stanisław

On periodic solutions of Hamiltonian system of differential equations on the plane. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 9 (1963), 81-86. (A. Howe) 33 #6036

On periodic solutions of Hamiltonian systems of differential equations on the plane. (Polish and Russian summaries) *Nonlinear Vibration Problems, 5, Second Conf. on Nonlinear Vibrations, Warsaw, 1962, pp.* 347-352. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (G. R. Sell) 32 #2676

On the trajectories and quasitrajectories of a two-dimensional orientor field. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 157-159. (B. L. Reinhart) 29 #344

On periodic solutions of a certain third-order non-linear differential equation. *Ann. Polon. Math.* 17 (1965), 147-154. (J. O. C. Ezeilo) 32 #2677

On periodic solutions of systems of two differential equations. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 10 (1965), 79-88. (R. A. Struble) 33 #6037

(with Bednarz, Stanisław; Giergiel, Józef) Boundedness of the solutions of a certain system of differential equations describing the motion of a mechanical system with frictional couplings. (Polish and Russian summaries) *Nonlinear Vibration Problems. Vol. 7 pp.* 241-246. *Państw. Wydawn. Nauk., Warsaw,* 1966. (Editors) 38 #1323

Asymptotic properties of solutions of nonlinear differential equations of the higher order. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 69-80. (V. Jakubovič (RŽMat 1968 #9 B180)) 44 #547

Extremal transient problems in linear systems. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 557-561. (K. Okubo) 37 #4313

Periodic solutions of $x'' + f(x)x'^{2n} + g(x) = \mu p(t)$. *Ann. Polon. Math.* 21 (1969), 231-237. (Joseph C. Wilson) 39 #554

On extremal transients in linear systems. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 141-145. (P. Sagirow) 40 #2400

Asymptotic properties of solutions of a certain nth order vector differential equation. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 472-475 (1970). (R. E. O'Malley, Jr.) 42 #6366

Dependence of solutions on boundary data for a system of two ordinary differential equations. *J. Differential Equations* 9 (1971), 381-389. (J. W. Bebernes) 44 #1855

Seebach, J. Arthur, Jr.

* (with Steen, Lynn A.) Counterexamples in topology. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London,* 1970. xiii + 210 *pp.* (C. W. Patty) 42 #1040

(with Seebach, Linda A.; Steen, Lynn A.) What is a sheaf? *Amer. Math. Monthly* 77 (1970), 681-703. (Editors) 41 #7678

Seebach, Linda A.

(with Seebach, J. Arthur, Jr.; Steen, Lynn A.) What is a sheaf? *Amer. Math. Monthly* 77 (1970), 681-703. (Editors) 41 #7678

Seebass, R.

(with Tamada, K.) The distortion of a magnetic field by the flow of a conducting fluid past a circular cylinder. *J. Fluid Mech.* 22 (1965), 561-578. (W. R. Sears) 32 #2010

Seebeck, Charles L., III

(with Harrold, O. G., Jr.) Locally weakly flat spaces. *Bull. Amer. Math. Soc.* 73 (1967), 457-459. (J. C. Cantrell) 34 #8410

ε-taming in codimension 3. *Michigan Math. J.* 14 (1967), 89-93. (R. H. Rosen) 34 #8393

(with Bryant, John L.) Locally nice embeddings of polyhedra. *Conference on the Topology of Manifolds (Michigan State Univ., E. Lansing, Mich.,* 1967*), pp.* 23-28. *Prindle, Weber & Schmidt, Boston, Mass.,* 1968. (Editors) 38 #3844

(with Bryant, J. L.) Locally nice embeddings in codimension three. *Bull. Amer. Math. Soc.* 74 (1968), 378-380. (K. Aoki) 36 #4566

(with Bryant, J. L.) Locally nice embeddings of polyhedra. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 257-274. (D. R. McMillan, Jr.) 38 #2751

(with Bryant, J. L.) An equivalence theorem for embeddings of compact absolute neighborhood retracts. *Proc. Amer. Math. Soc.* 20 (1969), 256-258. (J. R. Stallings) 39 #6285

(with Harrold, O. G.) Locally weakly flat spaces. *Trans. Amer. Math. Soc.* 138 (1969), 407-414. (R. B. Sher) 39 #954

(with Bryant, J. L.) Locally nice embeddings in codimension three. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 265-272. (D. R. McMillan, Jr.) 44 #7560

Collaring an $(n-1)$-manifold in an n-manifold. *Trans. Amer. Math. Soc.* 148 (1970), 63-68. (L. S. Husch) 41 #2692

Tame arcs on wild cells. *Proc. Amer. Math. Soc.* 29 (1971), 197-201. (O. G. Harrold) 43 #6896

Seeber, R. R.

Mersenne-form and Fermat-form number congruences. *Amer. Math. Monthly* 75 (1968), 21-25. (E. Karst) 37 #1309

Seeger, Alfred

The application of second-order effects in elasticity to problems of crystal physics. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962*), pp.* 129-144. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (F. R. N. Nabarro) 29 #1790

Seeger, Paul

* Variance analysis of complete designs: Some practical aspects. *Almqvist & Wiksell, Uppsala,* 1966. x + 225 *pp.* (E. S. Keeping) 36 #6069

Seeley, Robert T.

Extension of C^∞ functions defined in a half space. *Proc. Amer. Math. Soc.* 15 (1964), 625-626. (J. L. Lions) 29 #2676

(See also Palais, Richard S., 33 #6649)

Refinement of the functional calculus of Calderón and Zygmund. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 521-531. (G. Gussi (Zbl 141, 133)) 37 #2040

Integro-differential operators on vector bundles. *Trans. Amer. Math. Soc.* 117 (1965), 167-204. (M. F. Atiyah) 30 #3387

* An introduction to Fourier series and integrals. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. x + 104 *pp.* (R. R. Goldberg) 33 #4557

Pseudo differential operators. *Équations aux Dérivées Partielles (Sém. Math. Sup., No.* 19*, Été,* 1965*), pp.* 129-142. *Presses Univ. Montreal, Montreal, Que.,* 1966. (D. Fujiwara) 40 #1822

Singular integrals and boundary value problems. *Amer. J. Math.* 88 (1966), 781-809. (M. Schechter) 35 #810

Spherical harmonics. *Amer. Math. Monthly* 73 (1966), *no.* 4, *part II,* 115-121. (R. K. Saxena) 34 #1577

Elliptic singular integral equations. *Singular Integrals (Proc. Sympos. Pure Math., Chicago, Ill.,* 1966*), pp.* 308-315. *Amer. Math. Soc., Providence, R. I.,* 1967. (W. J. Sweeney) 38 #2426

Complex powers of an elliptic operator. *Singular Integrals (Proc. Sympos. Pure Math., Chicago, Ill.,* 1966*), pp.* 288-307. *Amer. Math. Soc., Providence, R. I.,* 1967. (M. F. Atiyah) 38 #6220

Topics in pseudo-differential operators. *Pseudo-Diff. Operators (C.I.M.E., Stresa,* 1968*), pp.* 167-305. *Edizioni Cremonese, Rome,* 1969. (H. Kumano-go) 41 #3973

The resolvent of an elliptic boundary problem. *Amer. J. Math.* 91 (1969), 889-920. (G. Geymonat) 42 #673

Analytic extension of the trace associated with elliptic boundary problems. *Amer. J. Math.* 91 (1969), 963-983. (G. Geymonat) 42 #877

A proof of the Atiyah-Bott-Lefschetz fixed point formula. *An. Acad. Brasil. Ci.* 41 (1969), 493-501. (M. F. Atiyah) 42 #5290

Eigenfunction expansions of analytic functions. *Proc. Amer. Math. Soc.* 21 (1969), 734-738. (A. Newlander, Jr.) 39 #2180

Norms and domains of the complex powers A_{Bz}. *Amer. J. Math.* 93 (1971), 299-309. (B. Hellwig) 44 #4582

Seelig, J. M.

(with Hoppmann, W. H., II) Impact on an elastically connected double-beam system. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 621-626. (Authors' summary) 30 #770

Seely, Justus

Linear spaces and unbiased estimation. *Ann. Math. Statist.* 41 (1970), 1725-1734. (I. Olkin) 43 #1313a

Linear spaces and unbiased estimation—Application to the mixed linear model. *Ann. Math. Statist.* 41 (1970), 1735-1748. (I. Olkin) 43 #1313b

Seetharaman, M.

(with Jayaraman, J.; Mathews, P. M.) Carruthers' theorem for any spin and parastatistics. (Italian summary) *Nuovo Cimento A* (10) 68 (1970), 409-412. (J.-P. Antoine) 42 #8804; erratum, 44, p. 1631

(with Jayaraman, J.; Mathews, P. M.) Arbitrary-spin wave equations and Lorentz invariance. *J. Mathematical Phys.* 12 (1971), 835-840. (J.-P. Antoine) 44 #3601

(with Jayaraman, J.; Mathews, P. M.) Relativistic wave equations: Proper Lorentz invariance and invariance under discrete transformations. *J. Mathematical Phys.* 12 (1971), 1620-1622. (M. Carmeli) 44 #7855

Seever, G. L.

(with Hasumi, Morisuke) The extension and the lifting properties of Banach spaces. *Proc. Amer. Math. Soc.* 15 (1964), 773-775. (S. Goldberg) 29 #6277

A peculiar Banach function space. *Proc. Amer. Math. Soc.* 16 (1965), 662-664. (A. C. Zaanen) 31 #3854

Nonnegative projections on $C_0(X)$. *Pacific J. Math.* 17 (1966), 159-166. (R. G. Douglas) 33 #581

Measures on F-spaces. *Trans. Amer. Math. Soc.* 133 (1968), 267-280. (S. Newberger) 37 #1976

(with König, Heinz) The abstract F. and M. Riesz theorem. *Duke Math. J.* 36 (1969), 791-797. (A. Browder) 44 #4526

Šefel′, S. Z.

On the intrinsic geometry of saddle surfaces. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1382-1396. (H. Busemann) 30 #5232

On saddle surfaces bounded by a rectifiable curve. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 294-296. (H. Busemann) 31 #3945

Compactness condition for a family of saddle surfaces. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 705-714. (H. Busemann) 35 #4826

(with Burago, Ju. D.) Nonregular surfaces of bounded outer curvature and isoperimetric type inequalities. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 997-999. (W. J. Firey) 38 #6461

The two classes of k-dimensional surfaces in n-dimensional Euclidean space. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 459-466. (Z. Nádeník) 39 #6223

Isometric imbeddings of class C^1. (Russian) *Dokl. Acad. Nauk SSSR* 195 (1970), 1052-1054. (I. Vaisman) 42 #8425

Completely regular isometric imbeddings in Euclidean space. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 442-460. (D. I. Papuc) 41 #9162

(with Borisov, Ju. F.) Surfaces of bounded external and positive Gaussian curvature. (Russian) *Dokl. Akad. Nauk SSSR* 200 (1971), 259-261. (C. S. Weaver) 44 #7485

Šefer, Gvidon. See Szefer, Gwidon.

Šefl, Otakar

Some questions of automatic control of processes with unknown characteristics. (Russian) *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962*), pp.* 611-620. *Publ. House Czech. Acad. Sci., Prague,* 1964. (S. Kotz) 29 #4171

The optimal control of some systems with random perturbations. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 537-542. *Academia, Prague,* 1967. (P. E. Sarachik) 36 #1229

The optimal control of linear system with random stationary perturbations. (Czech summary) *Kybernetika (Prague)* 3 (1967), 269-276. (H. J. Kushner) 35 #5250

Šeftel', Z. G.

Estimates in L_p of solutions of elliptic equations with discontinuous coefficients and satisfying general boundary conditions and conjugacy conditions. *Dokl. Akad. Nauk SSSR* 149 (1963), 48-51 *(Russian); translated as Soviet Math. Dokl.* 4 (1963), 321-324. (D. E. Edmunds) 33 #4459

(with Roĭtberg, Ja. A.) Boundary value problems and eigenvalue problems for equations of elliptic type with discontinuous coefficients. (Russian) *Mathematical Physics* (1965) *(Russian), pp.* 119-135. *Naukova Dumka, Kiev,* 1965. (N. Boboc) 34 #1686

Energy inequalities and general boundary problems for elliptic equations with discontinuous coefficients. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 636-668. (R. Beals) 31 #6056

(with Roĭtberg, Ja. A.) Normal boundary conditions and Green's formula for systems of partial differential equations. (Russian) *Abstracts of Papers of Drogobych State Ped. Inst. Eighth Periodic Sci. Conf.* (1966) *(Ukrainian), pp.* 125-129. *Drogobic. Derž. Ped. Inst., Drogobych,* 1966. (M. Švec) 36 #6822

A general theory of boundary value problems for elliptic systems with discontinuous coefficients. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 3, 132-136. (A. Kalašnikov (RŽMat 1967 #2 B292)) 36 #6785

(with Roĭtberg, Ja. A.) Boundary value problems with a parameter for systems elliptic in the sense of Douglis-Nirenberg. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 115-120. (Alois Kufner) 34 #6315

(with Roĭtberg, Ja. A.) Green's formula and a theorem on homeomorphisms for elliptic systems. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 181-182. (G. W. Hedstrom) 35 #6987

(with Roĭtberg, Ja. A.) A homeomorphism theorem for elliptic systems, and its applications. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 446-472. (L. Arkeryd) 40 #539

(with Roĭtberg, Ja. A.) A certain class of general nonlocal elliptic problems. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 511-513. (G. W. Hedstrom) 42 #8079

Šefter, G. M.

(with Ryžov, O. S.) On the effect of viscosity and thermal conductivity on the structure of compressible flows. *Prikl. Mat. Meh.* 28 (1964), 996-1007 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 1206-1218 (1965). (M. Sichel) 34 #8717

Segal, David M.

On the symplectic cobordism ring. *Comment. Math. Helv.* 45 (1970), 159-169. (P. S. Landweber) 41 #7699

On the stable homotopy of quaternionic and complex projective spaces. *Proc. Amer. Math. Soc.* 25 (1970), 838-841. (R. E. Mosher) 41 #4543

Divisibility conditions on characteristic numbers of stably symplectic manifolds. *Proc. Amer. Math. Soc.* 27 (1971), 411-415. (T. tom Dieck) 42 #5282

Segal, G. B.

(with Atiyah, M. F.) The index of elliptic operators. II. *Ann. of Math.* (2) 87 (1968), 531-545. (F. Hirzebruch) 38 #5244

Classifying spaces and spectral sequences. *Inst. Hautes Études Sci. Publ. Math. No.* 34 (1968), 105-112. (A. K. Bousfield) 38 #718

The representation ring of a compact Lie group. *Inst. Hautes Études Sci. Publ. Math. No.* 34 (1968), 113-128. (M. L. Laplaza) 40 #1529

Equivariant *K*-theory. *Inst. Hautes Études Sci. Publ. Math. No.* 34 (1968), 129-151. (S. Y. Husseini) 38 #2769

(with Atiyah, M. F.) The index of elliptic operators. II. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 6 (144), 135-149. (Editors) 38 #5246

Equivariant contractibility of the general linear group of Hilbert space. *Bull. London Math. Soc.* 1 (1969), 329-331. (N. H. Kuiper) 40 #2127

(with Atiyah, M. F.) Equivariant *K*-theory and completion. *J. Differential Geometry* 3 (1969), 1-18. (S. Y. Husseini) 41 #4575

Cohomology of topological groups. *Symposia Mathematica, Vol. IV (INDAM, Rome,* 1968/69*), pp.* 377-387. *Academic Press, London,* 1970. (A. K. Bousfield) 43 #6292

Fredholm complexes. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 385-402. (P. S. Landweber) 42 #6811

Segal, Irving E.

Transforms for operators and symplectic automorphisms over a locally compact abelian group. *Math. Scand.* 13 (1963), 31-43. (R. E. Edwards) 29 #486

* (with Martin, William Ted) Analysis in function space. Proceedings of a Conference, Dedham, Massachusetts, June 9-13, 1963. *The M.I.T. Press, Cambridge, Mass.,* 1964. vi + 218 *pp.* (Editors) 29 #1518

Quantum fields and analysis in the solution manifolds of differential equations. *Analysis in function space, pp.* 129-153. *M.I.T. Press, Cambridge, Mass.,* 1964. (G. Heber) 29 #4427

Quantum fields and analysis in the solution manifolds of differential equations. *Proc. Conf. on Theory and Appl. of Analysis in Function Space (Dedham, Mass.,* 1963*), pp.* 129-153. *The M.I.T. Press, Cambridge, Mass.,* 1964. (A. S. Wightman) 35 #2579

Interprétation et solution d'équations non linéaires quantifiées. *C. R. Acad. Sci. Paris* 259 (1964), 301-303. (John G. Taylor) 29 #4453

Explicit formal construction of nonlinear quantum fields. *J. Mathematical Phys.* 5 (1964), 269-282. (John G. Taylor) 31 #1932

Remark on operational formulations of relativistic causality. *Nuovo Cimento* (10) 31 (1964), 427-428. (E. H. Bareiss) 29 #6839

Nonlinear partial differential equations in quantum field theory. *Proc. Sympos. Appl. Math., Vol. XVII, pp.* 210-226. *Amer. Math. Soc., Providence, R. I.,* 1965. (R. C. Gilbert) 34 #2277

Algebraic integration theory. *Bull. Amer. Math. Soc.* 71 (1965), 419-489. (J. T. Schwartz) 31 #2642

La dispersion pour les équations non linéaires relativistes aux dérivées partielles. *C. R. Acad. Sci. Paris* 261 (1965), 5323-5326. (Author's summary) 32 #6977

(with Goodman, R. W.) Anti-locality of certain Lorentz-invariant operators. *J. Math. Mech.* 14 (1965), 629-638. (J. C. T. Pool) 31 #4411

Differential operators in the manifold of solutions of a non-linear differential equation. *J. Math. Pures Appl.* (9) 44 (1965), 71-105; *ibid.* (9) 44 (1965), 107-132. (T. Kato) 33 #594

(See also Mathematical theory of elementary particles, 34 #7134)

Quantization and dispersion for nonlinear relativistic equations. *Mathematical Theory of Elementary Particles (Proc. Conf., Dedham, Mass.,* 1965*), pp.* 79-108. *M.I.T. Press, Cambridge, Mass.,* 1966. (S. N. Biswas) 36 #542

Errata: "A theorem on the measurability of group-invariant operators". *Duke Math. J.* 33 (1966), 821. (Editors) 33 #6429

Representations of the canonical commutation relations. *Cargèse Lectures in Theoretical Physics: Application of Mathematics to Problems in Theoretical Physics (Cargèse,* 1965*), pp.* 107-170. *Gordon and Breach Science Publ., New York,* 1967. (T. Kato) 40 #3850

An extension of a theorem of L. O'Raifeartaigh. *J. Functional Analysis* 1 (1967), 1-21. (A. Kihlberg) 37 #6079

Positive-energy particle models with mass splitting. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 194-197. (J. M. Jauch) 34 #5449

Notes toward the construction of nonlinear relativistic quantum fields. I. The Hamiltonian in two space-time dimensions as the generator of a *C**-automorphism group. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 1178-1183. (D. Babbitt) 35 #5195

* (with Kunze, Ray A.) Integrals and operators. *McGraw-Hill Book Co., New York-Toronto, Ont.-London,* 1968. xi + 308 *pp.* (S. K. Berberian) 36 #335

* Математические проблемы релятивистской физики. (Russian) [Mathematical problems of relativistic physics] Translated from the English by V. S. Buslaev. Edited by L. D. Faddeev. *Izdat. "Mir", Moscow,* 1968. 191 *pp.* (Editors) 39 #5113

Non-linear relativistic partial differential equations. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 681-690. *Izdat. "Mir", Moscow,* 1968. (G. H. Derrick) 38 #5444

Dispersion for non-linear relativistic equations. II. *Ann. Sci. École Norm. Sup.* (4) 1 (1968), 459-497. (S. N. Biswas) 39 #5109

Quantized differential forms. *Topology* 7 (1968), 147-172. (D. Babbitt) 38 #1113

Notes towards the construction of nonlinear relativistic quantum fields. II. The basic nonlinear functions in general space-times. *Bull. Amer. Math. Soc.* 75 (1969), 1383-1389. (D. Babbitt) 40 #5216

Notes towards the construction of nonlinear relativistic quantum fields. III. Properties of the *C**-dynamics for a certain class of interactions. *Bull. Amer. Math. Soc.* 75 (1969), 1390-1395. (D. Babbitt) 40 #5217

Nonlinear functions of weak processes. I. *J. Functional Analysis* 4 (1969), 404-456. (J. Glimm) 40 #2309

Quantization of the de Rham complex. *Global Analysis (Proc. Sympos. Pure Math., Vol. XVI, Berkeley, Calif.,* 1968*), pp.* 205-210. *Amer. Math. Soc., Providence, R. I.,* 1970. (D. Babbitt) 42 #1157

The mathematical theory of quantum fields. *Lectures in Modern Analysis and Applications, II, pp.* 30-57. *(loose erratum) Lecture Notes in Mathematics, Vol.* 140. *Springer, Berlin,* 1970. (R. H. Herman) 42 #2762

Local non-linear functions of quantum fields. *Functional Analysis and Related Fields (Proc. Conf. for M. Stone, Univ. Chicago, Chicago, Ill.,* 1968*), pp.* 188-210. *Springer, New York,* 1970. (D. Babbitt) 43 #1520

Scattering theory as the analysis of elliptic fixed points. *Global Analysis (Proc. Sympos. Pure Math., Vol. XVI, Berkeley, Calif.,* 1968*), pp.* 95-100. *Amer. Math. Soc., Providence, R. I.,* 1970. (S. N. Biswas) 44 #1358

Construction of non-linear local quantum processes. I. *Ann. of Math.* (2) 92 (1970), 462-481. (M. J. Westwater) 42 #7187 (E)

Nonlinear functions of weak processes. II. *J. Functional Analysis* 6 (1970), 29-75. (J. Glimm) 41 #7974

Erratum to "Construction of non-linear local quantum processes. I". *Ann. of Math.* (2) 93 (1971), 597. (Editors) 43 #8301

Segal, Jack

Mapping norms and indecomposability. *J. London Math. Soc.* 39 (1964), 598-602. (P. Porcelli) 29 #5225

Isomorphic complexes. *Bull. Amer. Math. Soc.* 71 (1965), 571-572. (J. G. Ceder) 30 #4254

(with Fort, M. K., Jr.) Minimal representations of the hyperspace of a continuum. *Duke Math. J.* 32 (1965), 129-137. (S. Mardešić) 30 #5281

Isomorphic complexes. II. *Bull. Amer. Math. Soc.* 72 (1966), 300-302. (J. G. Ceder) 32 #6443

(with Mardešić, Sibe) A note on polyhedra embeddable in the plane. *Duke Math. J.* 33 (1966), 633-638. (R. Bennett) 33 #7988

Generalized Fréchet varieties. *Fund. Math.* 58 (1966), 31-43. (K. W. Kwun) 32 #6427

(with Mardešić, Sibe) On polyhedra embeddable in the 2-sphere. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 1(21) (1966), 167-175. (C. E. Burgess) 35 #7313

(with Mardešić, Sibe) ε-mappings and generalized manifolds. *Michigan Math. J.* 14 (1967), 171-182. (H. B. Griffiths) 35 #2288

(with Mardešić, Sibe) ε-mappings and generalized manifolds. II. *Michigan Math. J.* 14 (1967), 423-426. (H. B. Griffiths) 36 #4563

Quasi dimension type. I. Types in the real line. *Pacific J. Math.* 20 (1967), 501-534. (J. Dugundji) 34 #8381

(with Thomas, E. S., Jr.) Isomorphic cone-complexes. *Pacific J. Math.* 22 (1967), 345-348. (S. S. Cairns) 35 #4901

Quasi dimension type. II. Types in 1-dimensional spaces. *Pacific J. Math.* 25 (1968), 353-370. (J. Dugundji) 37 #2195

Transformations in Wiener space and squares of quantum fields. *Advances in Math.* 4, 91-108 (1970). (S. Gudder) 42 #8826

(with Mardešić, S.) Movable compacta and ANR-systems. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 649-654. (D. R. Traylor) 44 #1026

Segal, Martin

Stability problems for systems of linear differential equations. *Comm. Pure Appl. Math.* 17 (1964), 401-414. (J. J. Schäffer) 29 #6122

Segal, Robert

Generalized Bernoulli numbers and the theory of cyclotomic fields. *Acta Math.* 121 (1968), 49-75. (K. Shiratani) 38 #133

Segal, Sanford L.

Dirichlet convolutions and the Silverman-Toeplitz conditions. *Acta Arith.* 10 (1964), 287-291. (E. Cohen) 30 #4099

A note on normal order and the Euler ϕ-function. *J. London Math. Soc.* 39 (1964), 400-404. (B. Lepson) 32 #5607

A note on the average order of number-theoretic error terms. *Duke Math. J.* 32 (1965), 279-284. (S. Chowla) 31 #3391 (E)

Erratum: A note on the average order of number-theoretic error terms. *Duke Math. J.* 32 (1965), 765. (Editors) 32 #95

On non-decreasing normal orders. *J. London Math. Soc.* 40 (1965), 459-466. (R. Spira) 35 #4180

On prime-independent additive functions. *Arch. Math. (Basel)* 17 (1966), 329-332. (O. H. Körner) 33 #4038

On Ingham's summation method. *Canad. J. Math.* 18 (1966), 97-105. (N. G. de Bruijn) 33 #6203

A note on Dirichlet convolutions. *Canad. Math. Bull.* 9 (1966), 457-462. (L. Carlitz) 34 #2544

Errata: "A note on the average order of number-theoretic error terms". *Duke Math. J.* 33 (1966), 821. (Editors) 33 #5575

A remark on small values of entire functions. *Proc. Edinburgh Math. Soc.* (2) 15 (1966/67), 121-123. (R. P. Boas, Jr.) 36 #3985

Footnote to a formula of Gioia and Subbarao. *Canad. Math. Bull.* 10 (1967), 749-750. (P. Szüsz) 37 #5143

Summability by Dirichlet convolutions. *Proc. Cambridge Philos. Soc.* 63 (1967), 393-400. (A. Meir) 35 #622 (E)

(with Baker, J. A.) On a problem of Kemperman concerning Hamel functions. *Aequationes Math.* 2 (1968), 114-115. (V. D. Belousov) 39 #664

On a system of matrix functional equations of Belousov. *Aequationes Math.* 2 (1968), 116-117. (V. D. Belousov) 39 #668

A Tauberian theorem for Dirichlet convolutions. *Illinois J. Math.* 13 (1969), 316-320. (O. H. Körner) 39 #143

Tauberian theorems for $(\mathcal{D}, h(n))$-summability. *J. London Math. Soc.* 44 (1969), 163-168. (L. Hoischen) 38 #2488

A general Tauberian theorem of Landau-Ingham type. *Math. Z.* 111 (1969), 159-167. (R. A. MacLeod) 40 #2624

A Tauberian relative of the Landau-Ingham Tauberian theorem. *Proc. Amer. Math. Soc.* 20 (1969), 287-294. (S. Ikehara) 38 #4854

Erratum to: "Summability by Dirichlet convolutions". *Proc. Cambridge Philos. Soc.* 65 (1969), 369. (A. Meir) 39 #7326

Ségard, Norbert

(with Deffontaines, Étienne) Calcul de la probabilité d'évolution d'une trajectoire en présence de bruit. *C. R. Acad. Sci. Paris* 260 (1965), 2120-2123. (Authors' summary) 30 #3506

(with Deffontaines, Étienne) Calcul d'un correcteur pour la prédiction, en présence de bruit, d'une trajectoire rectiligne susceptible d'évolution. *C. R. Acad. Sci. Paris* 260 (1965), 2409-2412. (Authors' summary) 30 #3507

Segawa, Wataru

Rheological equations of generalized Maxwell model and Voight model in three-dimensional, non-linear deformation. *Second-order effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp. 758-763. Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (P. D. S. Verma) 29 #4387

Rheological equations of viscoelastic liquid. *J. Phys. Soc. Japan* 19 (1964), 206-210. (A. C. Pipkin) 29 #6770

Segē, G. See Szegő, Gábor.

Segel, Lee A.

The structure of non-linear cellular solutions to the Boussinesq equations. *J. Fluid Mech.* 21 (1965), 345-358. (Roy R. Johnson) 31 #4291

Non-linear hydrodynamic stability theory and its applications to thermal convection and curved flows. *Non-equilibrium Thermodynamics, Variational Techniques and Stability (Proc. Sympos. Univ. Chicago, May 17-19, 1965), pp. 165-197. Univ. Chicago Press, Chicago, Ill.,* 1966. (Chia-Shyn Yih) 35 #5181

Segerberg, Krister

Some modal logics based on a three-valued logic. *Theoria* 33 (1967), 53-71. (J. Corcoran and J. Herring) 44 #6460

Decidability of S4.1. *Theoria* 34 (1968), 7-20. (M. J. Cresswell) 39 #1308

Decidability of four modal logics. *Theoria* 34 (1968), 21-25. (M. J. Cresswell) 39 #1309

Propositional logics related to Heyting's and Johansson's. *Theoria* 34 (1968), 26-61. (A. Heyting) 39 #2617

Segercrantz, Jerry

On null-tetrads and eigenvectors of Lorentz transformations in spinor treatment. *Soc. Sci. Fenn. Comment. Phys.-Mat.* 32 (1966), *no.* 6, 8 *pp.* (A. E. Heins) 35 #912

New parameters for rotations of solid bodies. *Soc. Sci. Fenn. Comment. Phys.-Mat.* 33 (1966), *no.* 2, 8 *pp.* (O. Bottema) 34 #7078

On the classification of Lorentz transformations. *Soc. Sci. Fenn. Comment. Phys.-Mat.* 33 (1966), *no.* 5, 4 *pp.* (S. Datta Majumdar) 35 #4007

On continuous subgroups of the proper Lorentz group. *Ann. Acad. Sci. Fenn. Ser. A VI No.* 233 (1967), 46 *pp.* (A. Kihlberg) 35 #5549

Disconnected subgroups of the Lorentz and rotation groups. *Ann. Acad. Sci. Fenn. Ser. A VI No.* 275 (1968), 12 *pp.* (A. Kihlberg) 37 #4201

Disconnected subgroups of certain transformation groups. *Ann. Acad. Sci. Fenn. Ser. VI No.* 283 (1968), 8 *pp.* (From the author's introduction) 38 #2243

Note on the proof of the Cayley-Hamilton theorem. *Soc. Sci. Fenn. Comment. Phys.-Math.* 34 (1968), 21-24. (Author's summary) 38 #3287

A generalization of the Cayley-Hamilton theorem. *Soc. Sci. Fenn. Comment. Phys.-Mat.* 34 (1968), *no.* 6, 4 *pp.* (Author's summary) 38 #5805

Generalization of a recursion formula for scalar invariants of linear transformations. *Soc. Sci. Fenn. Comment. Phys.-Math.* 34 (1969), *no.* 11, 85-89. (From the author's summary) 39 #4200

Segerdahl, Carl-Otto

On the probability function of a homogeneous random process. *Skand. Aktuarietidskr.* 1969, 163-174 (1970). 42 #2536

Seget, Karel. See Segeth, Karel.

Segeth, Karel

Comparison of the exactness of several formulations of boundary conditions in the use of the finite difference method. (Russian) *Apl. Mat.* 10 (1965), 302-307. (B. Kellogg) 32 #1916

On universally optimal quadrature formulae involving values of derivatives of integrand. *Czechoslovak Math. J.* 19(94) (1969), 605-675. (R. A. Valentin) 41 #4805

Segovia, Carlos

(with Benedek, A.; Panzone, R.) On operations of convolution type and orthonormal systems on compact abelian groups. *Rev. Un. Mat. Argentina* 22, 57-73 (1964). (W. A. J. Luxemburg) 30 #2354

(with Panzone, R.) Measurable transformations on compact spaces and O. N. systems on compact groups. *Rev. Un. Mat. Argentina* 22, 83-102 (1964). (W. A. J. Luxemburg) 30 #2119

(with Wheeden, R. L.) On certain fractional area integrals. *J. Math. Mech.* 19 (1969/70), 247-262. (M. Itô) 39 #7472

On the area function of Lusin. *Studia Math.* 33 (1969), 311-343. (R. A. Hunt) 44 #5497

(with Wheeden, R. L.) On the function g_λ^* and the heat equation. *Studia Math.* 37 (1970), 57-93. (B. Frank Jones, Jr.) 44 #3124

Segre, Beniamino

Alcune questioni su insiemi finiti di punti in geometria algebrica. *Univ. e Politec. Torino Rend. Sem. Mat.* 20 (1960/61), 67-85. (P. Du Val) 29 #6372

L'opera scientifica di Francesco Severi (1879-1961). *Ricerca Sci. Parte I Quad.* 3 (1962), 57 *pp.* (1 *plate*) (Editors) 32 #1113

Francesco Severi (13 aprile 1879 - 8 dicembre 1961). *Ann. Mat. Pura Appl.* (4) 61 (1963), i-xxxvi. (Editors) 29 #4665

Intorno ad una congettura di Lang e Weil. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 34 (1963), 337-339. (A. Mattuck) 29 #1215

} Sull'hessiano di taluni polinomi (determinanti, pfaffiani, discriminanti, risultanti, hessiani). (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 109-117. (A. Evyatar (Gutwirth)) 31 #2239

Sull'hessiano di taluni polinomi (determinanti, pfaffiani, discriminanti, risultanti, hessiani). *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 215-221 (1965). (A. Evyatar (Gutwirth)) 32 #4124

Arithmetische Eigenschaften von Galois-Räumen. I. *Math. Ann.* 154 (1964), 195-256. (E. Morgantini) 29 #2697

Sistemi polilaterali di spazi in un iperspazio. *Math. Notae* 19 (1964), 1-10. (E. Morgantini) 29 #6371

Galois spaces and non-Desarguesian geometries. *Rend. Mat. e Appl.* (5) 23 (1964), 1-3. (R. J. Crittenden) 29 #6369

* Istituzioni di geometria superiore. Vol. I: Strutture algebriche. Lezioni raccolte da Pier Vittorio Ceccherini. Università degli Studi, Roma. Anno accademico 1963-64. *Istituto Matematico "Guido Castelnuovo", Rome,* 1965. xii + 409 *pp.* (G. Panella) 37 #4700a

* Istituzioni di geometria superiore. Vol. II: Spazi proiettivi. Lezioni raccolte da Pier Vittorio Ceccherini. Corso di complementi ed esercitazioni tenuto da Giuseppe Tallini. Università degli Studi, Roma. Anno accademico 1963-64. *Istituto Matematico "Guido Castelnuovo", Rome,* 1965. viii + 293 *pp.* (G. Panella) 37 #4700b

* Istituzioni di geometria superiore. Vol. III: Complessi, reti, disegni. Lezioni raccolte da Pier Vittorio Ceccherini. Università degli Studi, Roma. Anno accademico 1963-64. *Istituto Matematico "Guido Castelnuovo", Rome,* 1965. xi + 357 *pp.* (G. Panella) 37 #4700c

Forme e geometrie hermitiane, con particolare riguardo al caso finito. *Ann. Mat. Pura Appl.* (4) 70 (1965), 1-201. (A. Barlotti) 35 #4802

Intorno ad alcune forme algebriche su di un campo a caratteristica positiva. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 39 (1965), 219-223. (F. Gherardelli) 35 #184

Hermitian geometries, with special regard to the finite case. *Proc. Internat. Colloq. Algebraic Geometry (Madrid, 1965) (Spanish), pp.* 9-15. *Inst. Jorge Juan del C. S. I. C.-Internat. Math. Union, Madrid,* 1966. (A. Barlotti) 35 #4801

Coppie di forme binarie a jacobiano definito, e forme antidefinite o massimali in campo reale. I. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 215-225. (A. Evyatar (Gutwirth)) 35 #6671

Coppie di forme binarie a jacobiano definito, e forme antidefinite o massimali in campo reale. II. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 435-445. (A. Evyatar (Gutwirth)) 36 #2050

Finite structures and algebraic geometry. *Rend. Mat. e Appl.* (5) 25 (1966), 46-50. (G. Tallini) 36 #2616

Introduction to Galois geometries. (Italian summary) *Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I* (8) 8 (1967), 133-236. (A. Barlotti) 39 #206

(See also Severi, Francesco, 39 #6880)

Sulle coppie di tangenti fra loro parallele relative ad una curva chiusa sghemba. *Hommage au Professeur Lucien Godeaux, pp.* 141-167. *Librairie Universitaire, Louvain,* 1968. (H. W. Guggenheimer) 39 #901

Sommets et directions de Cavalieri-Lagrange des courbes gauches fermées. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1054-A1056. (A. Fialkow) 37 #6844

Proprietà algebrico-geometriche di forme bilineari ed estensioni della disugualianza di Cauchy-Schwarz. *Period. Mat.* (4) 46 (1968), 308-325. (J. A. Todd) 40 #4284

Alcune proprietà differenziali in grande delle curve chiuse sghembe. (English summary) *Rend. Mat.* (6) 1 (1968), 237-297. (H. W. Guggenheimer) 39 #4787

Global differential properties of closed twisted curves. (Italian summary) *Rend. Sem. Mat. Fis. Milano* 38 (1968), 256-263. (W. F. Pohl) 39 #2099

Su certe varietà algebriche intersezioni di quadriche od a sezioni curvilinee normali. *Ann. Mat. Pura Appl.* (4) 84 (1970), 125-155. (D. Gallarati) 42 #4545

Intersezioni complete di due ipersuperficie algebriche in uno spazio affine, e non estendibilità di un teorema di Seshardi. (English summary) *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1527-1534. (H. Mizuno) 43 #3260

* Some properties of differentiable varieties and transformations; with special reference to the analytic and algebraic cases. Second edition. With an additional part written in collaboration with J. W. P. Hirschfeld. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 13. *Springer-Verlag, New York-Heidelberg,* 1971. ix + 195 *pp.* (From the preface to the second edition) 43 #3953

Segre, Corrado

* Opere. Vol. IV. *Edizioni Cremonese, Rome,* 1963. xiii + 505 *pp.* (B. A. Amirà) 31 #3292

Segrè, Emilio

(See Annual review of nuclear science, Vol. 15, 32 #3630)

Segrè, Gino

(with Oehme, R.) On the commutation relations of weak currents. *Phys. Lett.* 11 (1964), 94-96. (Y. Ne'eman) 33 #2237

Sum rules for massive vector gauge fields. *Nuclear Phys.* 74 (1965), 673-676. (I. Białynicki-Birula) 32 #8778

(with Sucher, J.) Broken symmetries and mass formulae for vector mesons. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 428-437. (T. K. Kuo) 33 #5287

(with Furlan, G.; Lannoy, F. G.; Rossetti, C.) Symmetry-breaking corrections to weak vector currents. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1747-1754. (K. Kawarabayashi) 33 #1044

(with Furlan, G.; Lannoy, F.; Rossetti, C.) Theory of corrections to unitary symmetry formulae. (Italian summary) *Nuovo Cimento A* (10) 40 (1965), 597-629. (S. L. Glashow) 35 #1283

(with Alles, W.) Parity conserving non leptonic hyperon decays in SU(6). *Phys. Lett.* 15 (1965), 94-96. (S. N. Biswas) 32 #5166

Segre, Giorgio

(with Rescigno, Aldo) On some topological properties of the systems of compartments. *Bull. Math. Biophys.* 26 (1964), 31-38. (K. Dietz) 37 #1174

Compartmental systems and generating functions. *Bull. Math. Biophys.* 27 (1965), *special issue,* 49-63. (K. Dietz) 33 #8210

(with Rescigno, Aldo) On some metric properties of the systems of compartments. *Bull. Math. Biophys.* 27 (1965), 315-323. (K. Dietz) 37 #1175

Seguchi, Tsunetami

(with Naritomi, Takashi) On certain types of recurrent events. *Math. Rep. General Ed. Department Kyushu Univ.* 5 (1967), 1-20. (S. Csibi) 37 #4865

Certain operators of Riemann-Liouville type and stationary processes. *Math. Rep. College General Ed. Kyushu Univ.* 7 (1970), *no.* 2, 23-35. *(loose errata)* (H. P. McKean, Jr.) 43 #2771

Shift-commutative linear operators and stationary processes. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 23 (1969), 106-155. *(loose errata)* (H. Salehi) 43 #2769

An application of shift-commutative linear operators to linear automatic control systems with randomness--A theoretical formulation. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 120-145. *(errata insert)* (H. Salehi) 43 #2770

Seguin, Gerald

On the weight distribution of cyclic codes. *IEEE Trans. Information Theory* IT-16 (1970), 358. (Author's summary) 42 #7402

Ségur, Pierre

(with Gaillard, Joëlle) Expressions analytiques de la fonction de distribution en énergie des électrons dans un gaz faiblement ionisé compte tenu des collisions inélastiques. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), B917-B920. (D. Graffi) 43 #5847

Segura, H. K. del Prado See del Prado Segura, H. K.

Ségura, Jean

(with Coutris, Nicole) Étude dans le domaine plastique des milieux avec couples de contrainte. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1126-A1129. (E. Pinney) 44 #1286

(with Coutris, Nicole) Sur la théorie des coques en élasto-plasticité. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1599-A1602. (E. Pinney) 44 #4960

Sehgal, Sudarshan K.

Jacobson theory of ringoids. *Notre Dame J. Formal Logic* 4 (1963), 206-215. (S. Stein) 29 #3508

(with Clay, R. E.) Boolean algebroids. *Notre Dame J. Formal Logic* 5 (1964), 154-157. (F. M. Yaqub) 30 #1962

On the isomorphism of group algebras. *Math. Z.* 95 (1967), 71-75. (W. E. Deskins) 34 #5950

On the isomorphism of integral group rings. I. *Canad. J. Math.* 21 (1969), 410-413. (C. Y. Chao) 41 #366

On the isomorphism of integral group rings. II. *Canad. J. Math.* 21 (1969), 1182-1188. (C. Y. Chao) 42 #392

Units in commutative integral group rings. *Math. J. Okayama Univ.* 14 (1969/70), 135-138. (B. Fein) 44 #6861

Isomorphism of *p*-adic group rings. *J. Number Theory* 2 (1970), 500-508. (L. Carlitz) 42 #1917

On class sums in *p*-adic group rings. *Canad. J. Math.* 23 (1971), 541-543. (M. Friedberg) 43 #6335

Sehgal, Surinder K.

A characterization of groups having property *P*. *Illinois J. Math.* 11 (1967), 297-299. (G. E. Wall) 34 #7655

(with McWorter, William A., Jr.) Normal complements of Carter subgroups. *Illinois J. Math.* 12 (1968), 510-512. (J. E. Roseblade) 37 #2849

On some commutator identities in finite groups. *J. Indian Math. Soc. (N.S.)* 32 (1968), *suppl. I,* 281-286 (1970). (J. L. Alperin) 43 #4900

(with Zassenhaus, Hans) The Frattini subgroups of linear neotherian groups. *J. Number Theory* 3 (1971), 111-114. (W. J. Wong) 42 #7790

Sehgal, V. M.

A remark on M. A. Krasnoselskii's fixed point theorem. *J. Natur. Sci. and Math.* 9 (1969), 117-120. (J. E. West) 40 #3391

A fixed point theorem for mappings with a contractive iterate. *Proc. Amer. Math. Soc.* 23 (1969), 631-634. (B. Margolis) 40 #3531

(The sign } indicates an entry in the supplement.)

(with George, J. H.; Smithson, R. E.) Application of Liapunov's direct method to fixed point theorems. *Proc. Amer. Math. Soc.* 28 (1971), 613-620. (D. E. Sanderson) 43 #6904

(with Thomas, J. W.) A fixed point theorem for semigroups of mappings with a contractive iterate. *Proc. Amer. Math. Soc.* 29 (1971), 565-568. (A. T.-M. Lau) 43 #7989

Šehter, M. See Schechter, Martin.

Šehter, V. M.

(with Belov, V. P.) Regge pole trajectories for the nonrelativistic two-channel problem. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1855-1867 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 1249-1256. (V. de Alfaro) 32 #6992

* Теоретическая физика и физика элементарных частиц. Резонансные состояния элементарных частиц. (Russian) [Theoretical physics and physics of elementary particles. Resonance state of elementary particles] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 187 *pp.* (J. Mathews) 32 #5201

Šehtman, I.

(See Babenko, K. I.; Voskresenskiĭ, G. P.; Ljubimov, A. N.; Rusanov, V. V., 37 #6067)

Seib, Manfred

Unitäre Polaritäten endlicher projektiver Ebenen. *Arch. Math. (Basel)* 21 (1970), 103-112. (D. A. Foulser) 42 #6710

Seibert, Peter

(with André, J.) After end-point motions of general discontinuous control systems and their stability properties. (With discussion. French and German summaries) *Automatic and Remote Control (Proc. First Internat. Congr. Internat. Fed. Automat. Control, Moscow,* 1960*), Vol. II, pp.* 919-922. *Butterworths, London,* 1961. (Authors' summary) 33 #2431

A theorem on stability under perturbations with an application to relay-type control systems. (Russian and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 340-346. *Panstowowe Wydawnictwo Naukowe, Warsaw,* 1964. 32 #2225

(with Auslander, J.) Prolongations and stability in dynamical systems. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 2, 237-267. (T. Ura) 31 #455

Zum Problem der Stabilität unter ständig wirkenden Störungen bei dynamischen Systemen. *Arch. Math.* 15 (1964), 108-114. (H. A. Antosiewicz) 29 #338

(with Auslander, J.; Bhatia, N. P.) Attractors in dynamical systems. *Bol. Soc. Mat. Mexicana* (2) 9 (1964), 55-66. (H. A. Antosiewicz) 32 #5973

(with Tulley, Patricia) On dynamical systems in the plane. *Arch. Math. (Basel)* 18 (1967), 290-292. (R. Ellis) 36 #873

Stability under sustained perturbations and its generalization to continuous flows. (Spanish. English summary) *Acta Mexicana Ci. Tecn.* 2 (1968), 154-165. (C. S. Coleman) 40 #4560

Seibt, Heinz

Zur Quadratbildung von Polynomen. *Acta Sci. Math. (Szeged)* 26 (1965), 163-169. (P. Erdős) 31 #2196

Erweiterung von Halbgruppen durch wiederholte Quotientenbildung. I. *Acta Sci. Math. (Szeged)* 30 (1969), 137-155. (F. C. Biesele) 39 #2894

Seid, H. A.

A corollary to the Gelfand-Mazur theorem. *Amer. Math. Monthly* 77 (1970), 282-283. (J. Kist) 41 #4253

Seidel, B. S.

(with Erdélyi, E. A.) On the vibration of a thick ring in its own plane. *Trans. ASME Ser. B. J. Engrg. Indust.* 86 (1964), 240-244. (P. R. Paslay) 29 #3055

Seidel, Heinrich

Nilpotenzkriterien für Halbgruppen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 5 (1963), 599-603. (T. Tamura) 29 #2313

(with Hoehnke, H.-J.) Über das O-Radikal einer Halbgruppe. *Monatsb. Deutsch. Akad. Wiss. Berlin* 5 (1963), 667-670. (O. Boruvka) 30 #1202

Über das Radikal einer Halbgruppe. *Math. Nachr.* 29 (1965), 255-263. (H.-J. Hoehnke) 32 #1276

Eine Charakterisierung des O-Radikales einer Halbgruppe. *Math. Nachr.* 34 (1967), 163-166. (E.-A. Behrens) 36 #2730

Seidel, Johan Jacob

(with van Vollenhoven, J.) Mutually congruent conics in a net. *Simon Stevin* 37 (1963/64), 20-24. (F. Şemin) 29 #6388

Polytopes. (Dutch) *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1966, *ZW*-005, 7 *pp.* (H. S. M. Coxeter) 33 #3160

(with van Lint, J. H.) Equilateral point sets in elliptic geometry. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 335-348. (L. M. Blumenthal) 34 #685

Remark concerning a theorem on eigenvectors of bounded linear operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 358-359. (K. L. Chung) 34 #3337

(with Goethals, J. M.) Orthogonal matrices with zero diagonal. *Canad. J. Math.* 19 (1967), 1001-1010. (H. Minc) 36 #5013

Strongly regular graphs of L_2-type and of triangular type. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 188-196. (F. Harary) 35 #88

Configurations. (Dutch) *Colloquium on Discrete Mathematics (Dutch) pp.* 3-50, 104-106. *Mathematisch Centrum, Amsterdam,* 1968. (I. Z. Bouwer) 41 #3298

Strongly regular graphs with (-1,1,0) adjacency matrix having eigenvalue 3. *Linear Algebra and Appl.* 1 (1968), 281-298. (B. R. Heap) 38 #3175

Strongly regular graphs. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 185-198. *Academic Press, New York,* 1969. A. Gewirtz) 40 #7148

Quasiregular two-distance sets. *Nederal. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 64-70. (H. Busemann) 39 #864

(with Goethals, J. M.) Quasisymmetric block designs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta.,* 1969*), pp.* 111-116. *Gordon and Breach, New York,* 1970. (A. Gewirtz) 42 #5818

* (with Bussemaker, F. C.) Symmetric Hadamard matrices of order 36. T.H.-Report 70-WSK-02. *Department of Mathematics, Technological University Eindhoven, Eindhoven,* 1970. i + 68 *pp. (M. Doob)* 43 #1863

(with Bussemaker, F. C.) Symmetric Hadamard matrices of order 36. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 66-79. (L. D. Baumert) 44 #3894

(with Sloane, N. J. A.) A new family of nonlinear codes obtained from Conference matrices. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 363-365. (H. B. Mann) 42 #1573

(with Goethals, J. M.) Strongly regular graphs derived from combinatorial designs. *Canad. J. Math.* 22 (1970), 597-614. (A. Gewirtz) 44 #106

(with Goethals, J. M.) A skew Hadamard matrix of order 36. *J. Austral. Math. Soc.* 11 (1970), 343-344. (D. W. Walkup) 42 #4422

Seidel, Wladimir

(with Schnitzer, Franz) On the modulus of unbounded holomorphic functions. *Math. Z.* 88 (1965), 301-308. (J. A. Cima) 31 #1382

(with Schnitzer, F.) On the rate with which a holomorphic function in a disk can tend radially to zero. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 876-877. (W. Schneider) 35 #6839

Seiden, Esther

A method of construction of resolvable BIBD. *Sankhyā Ser. A* 25 (1963), 393-394. (J. Sacks) 30 #2632

(with Zemach, Rita) On orthogonal arrays. *Ann. Math. Statist.* 37 (1966), 1355-1370. (J. Kiefer) 33 #5061

A note on construction of partially balanced incomplete block designs with parameters $v=28$, $n_1=12$, $n_2=15$ and $p_{11}^2=4$. *Ann. Math. Statist.* 37 (1966), 1783-1789. 33 #6785

(with o. Aliev, I. Š.) Steiner triple systems and strongly regular graphs. *J. Combinatorial Theory* 6 (1969), 33-39. (S. Stein) 38 #4362

(with Hedayat, A.) *F*-square and orthogonal *F*-squares design: A generalization of Latin square and orthogonal Latin squares design. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 261-275. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (H. B. Mann) 42 #2956

(with Blum, J. R.; Schatz, J. A.) On 2-level orthogonal arrays of odd index. *J. Combinatorial Theory* 9 (1970), 239-243. (R. G. Stanton) 41 #8258

(with Hedayat, A.) *F*-square and orthogonal *F*-squares design: A generalization of Latin square and orthogonal Latin squares design. *Ann. Math. Statist.* 41 (1970), 2035-2044. (Authors' summary) 42 #2604

Seidenberg, Abraham

Remarks on Nicomedes' duplication. *Arch. History Exact Sci.* 3, 97-101 (1966). (D. J. Struik) 33 #7224

Derivations and integral closure. *Pacific J. Math.* 16 (1966), 167-173. (P. Samuel) 32 #5686

Differential ideals in rings of finitely generated type. *Amer. J. Math.* 89 (1967), 22-42. (K. Kondo) 35 #2902

* Elements of the theory of algebraic curves. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1968. viii + 216 *pp.* (W. E. Fulton) 40 #1393

Reduction of singularities of the differential equation *Ady=Bdx*. *Amer. J. Math.* 90 (1968), 248-269. (Y. Nakai) 36 #3762

Analytic products. *Amer. J. Math.* 91 (1969), 577-590. (Joseph Lipman) 40 #7261

On the variety of orbits. *Illinois J. Math.* 13 (1969), 728-739. (T. Kambayashi) 41 #1744

On analytically equivalent ideals. *Inst. Hautes Études Sci. Publ. Math. No.* 36 (1969), 69-74. (P. Samuel) 41 #5350

On *k*-constructable sets, *k*-elementary formulae, and elimination theory. *J. Reine Angew. Math.* 239/240 (1969), 256-267. (H. Kruke) 40 #7262

Abstract differential algebra and the analytic case. II. *Proc. Amer. Math. Soc.* 23 (1969), 689-691. (K. Okugawa) 40 #1376

Report on analytic products. *Questions on Algebraic Varieties (C.I.M.E., III Ciclo, Varenna,* 1969*), pp.* 121-137. *Edizioni Cremonese, Rome,* 1970. (Joseph Lipmann) 43 #1984

On the length of a Hilbert ascending chain. *Proc. Amer. Math. Soc.* 29 (1971), 443-450. (E. H. Batho) 43 #6193

Seidl, Lev K.

Multiple output logical networks with the minimal number of diodes. (Russian. English and Czech summaries) *Stroje na Zpracování Informací* 9 (1963), 229-247. (Author's summary) 31 #5764

Seidler, Jerzy

* Optimierung informationsübertragender Systeme. Band 2: Optimierung adaptiver Systeme. *VEB Verlag Technik, Berlin,* 1969. 316 *pp.* (S. Kullback) 44 #5171

Seidman, Lawrence P.

An upper bound on average estimation error in nonlinear systems. *IEEE Trans. Information Theory* IT-14 (1968), 243-250. (Author's summary) 40 #5328

Seidman, Stephen B.

Completely regular mappings with locally compact fiber. *Trans. Amer. Math. Soc.* 147 (1970), 461-471. (M.-E. Hamstrom) 40 #8026

Completely regular mappings with compact ANR fiber. *Fund. Math.* 70 (1971), *no.* 2, 139-146. (R. F. Dickman, Jr.) 44 #1003

Seidman, Thomas I.

Linear transformation of a functional integral. II. *Comm. Pure Appl. Math.* 17 (1964), 493-508. (A. C. Zaanen) 29 #5135

(with Bharucha-Reid, A. T.) On processes equivalent to Feller processes. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 543-546. *Academia, Prague,* 1967. (J. R. Kinney) 35 #7403

(with MacCamy, R. C.; Mizel, V. J.) Approximate boundary controllability for the heat equation. *J. Math. Anal. Appl.* 23 (1968), 699-703. (W. F. Ames) 37 #4384

(with Itô, Takashi) Bounded generators of linear spaces. *Pacific J. Math.* 26 (1968), 283-287. (I. Namioka) 39 746

An identity for normal-like operators. *Israel J. Math.* 7 (1969), 249-253. (Morris Schreiber) 40 #7845

(with Mizel, V. J.) Observation and prediction for the heat equation. *J. Math. Anal. Appl.* 28 (1969), 303-312. (A. L. Schwartz) 40 #569

(with MacCamy, R. C.; Mizel, V. J.) Approximate boundary controllability of the heat equation. II. *J. Math. Anal. Appl.* 28 (1969), 482-492. (W. F. Ames) 40 #521

Approximation of operator semi-groups. *J. Functional Analysis* 5 (1970), 160-166. (A. Pazy) 40 #7866

Seidov, Z. B.

Investigation of the solution of second-order nonlinear differential equations in Hilbert space. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1962, *no.* 4, 49-52. (G. Geymonat) 36 #2929

Solution of a boundary value problem with a parameter for differential equations with retarded argument. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 17-23. (Marko Švec) 35 #3190

Boundedness of the solutions of nonlinear equations with retarded argument in function spaces. (Russian) *Problems Comput. Math. (Russian), pp.* 139-148. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. (H. Baumgärtel) 36 #486

A multipoint boundary value problem with a parameter for systems of differential equations. (Russian, Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1968, *no.* 2, 24-30. (F. H. Szafraniec) 43 #7701

Boundary value problems with a parameter for differential equations in a Banach space. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 223-228. (M. Švec) 36 #6751

A certain initial problem for differential equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1534-1537, 1544. (K. Smítalová) 44 #4331

Seierstad, Atle

On closedness under switching in Banach space. *Math. Systems Theory* 3 (1969), 97-101. (H. T. Banks) 40 #6337

Seifer, Arnold D.

On the incoherent scattering of an acoustic or electromagnetic wave. *J. Statist. Phys.* 1 (1969), 571-584. (Author's summary) 44 #1321

(with Jacobson, Melvin J.) Statistics of a random plus constant vector with application to acoustic and electromagnetic-wave scattering. *J. Statist. Phys.* 2 (1970), 279-289. (Authors' summary) 42 #2735

Seifert, George

An application of covering spaces. *Proc. Iowa Acad. Sci.* 70 (1963), 351-353. (M. L. Curtis) 29 #1576

A condition for almost periodicity with some applications to functional-differential equations. *J. Differential Equations* 1 (1965), 393-408. (C. R. Putnam) 31 #4962

Stability conditions for the existence of almost-periodic solutions of almost-periodic systems. *J. Math. Anal. Appl.* 10 (1965), 409-418. (C. R. Putnam) 30 #3276

Some recent results for almost periodic solutions of differential equations. *SIAM Rev.* 7 (1965), 529-538. (S. P. Diliberto) 32 #4331

Almost periodic solutions for almost periodic systems of ordinary differential equations. *J. Differential Equations* 2 (1966), 305-319. (G. H. Meisters) 34 #4613

On totally stability and asymptotic stability. *Tôhoku Math. J.* (2) 19 (1967), 71-74. (N. P. Bhatia) 35 #5732 (E)

Almost periodic solutions and asymptotic stability. *J. Math. Anal. Appl.* 21 (1968), 136-149. (W. A. Coppel) 36 #1774

Correction: "On total stability and asymptotic stability". *Tôhoku Math. J.* (2) 20 (1968), 416. (Editors) 38 #4776

(with Fink, A. M.) A nonresonance condition for almost periodic solutions of ordinary differential equations. *Ann. Mat. Pura Appl.* (4) 81 (1969), 69-75. (R. A. Struble) 39 #7211

(with Fink, A. M.) Liapunov functions and almost periodic solutions for almost periodic systems. *J. Differential Equations* 5 (1969), 307-313. (J. W. Heidel) 38 #3517

On almost periodic solutions for undamped systems with almost periodic forcing. *Proc. Amer. Math. Soc.* 31 (1972), 104-108. (J. W. Heidel) 44 #2989

Seifert, Hans-Jürgen

Ein Satz über geodätische Verbindbarkeit in normalhyperbolischen Räumen. (English summary) *Comm. Math. Phys.* 4 (1967), 324-330. (J. A. Wolf) 35 #2610

Global connectivity by timelike geodesics. *Z. Naturforsch.* 22a (1967), 1356-1360. (J. A. Wolf) 37 #1149

Seiffart, E.

Ein Reihenfolgeproblem. *Colloq. Applications of Math. to Economics, Budapest,* 1963*, pp.* 339-341. *Akadémiai Kaidó, Budapest,* 1965. (Author's summary) 33 #5366

(with Bank, B.) Ein "branch and bound" Algorithmus eines Reihenfolgeproblems. (Czech summary) *Ekonom.-Mat. Obzor* 5 (1969), 22-29. (Authors' introduction) 39 #6609

* (with Manteuffel, K.) Einführung in die lineare Algebra und lineare Optimierung. Mathematik für Technische Hochschulen, Band 7. *BSB B. G. Teubner Verlagsgesellschaft, Leipzig,* 1970. 275 *pp.* (R. W. Cottle) 42 #4562

Seifollah Louis, Hakimi. See Hakimi, Seifollah Louis.

Seiler, Rudolf

(with Minkowski, Peter; Williams, David N.) On Stapp's theorem. *Lectures in Theoret. Phys., Vol. VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo.,* 1964*), pp.* 173-189. *Univ. Colorado Press, Boulder, Colo.,* 1965. (John G. Taylor) 34 #5430

Reellanalytische kovariante Funktionen und ihre analytische Fortsetzung ins Komplexe. (English summary) *Helv. Phys. Acta* 39 (1966), 641-664. (A. O. Barut) 35 #1293

(with Pratt, R. H.) Separable Schrödinger equations for two interacting particles in external fields. *J. Mathematical Phys.* 11 (1970), 2208-2211. (Gerald Rosen) 42 #2755

Seim, Gunter

Die Klassifikation der Zustände bei inhomogenen Markoffschen Ketten. *Math. Z.* 123 (1971), 21-31. (K. Hinderer) 44 #6049

Šeĭnberg, M. V.

Relatively injective modules over Banach algebras. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26*, no.* 3, (1971), 53-58. (B. R. Gelbaum) 43 #6729

Šeĭnbergas, I. M.

Simple bases and the number of functions in certain Post classes. (Russian) *Mat. Zaketki* 8 (1970), 105-114. (A. Salomaa) 43 #4640

Seinfeld, John H.

Optimal control of a continuous stirred tank reactor with transportation lag. *Internat. J. Control* (1) 10 (1969), 29-39. (Author's summary) 39 #3868

* (with Lapidus, Leon) Numerical solution of ordinary differential equations. Mathematics in Science and Engineering, Vol. 74. *Academic Press, New York-London,* 1971. xii + 299 *pp.* (T. E. Hull) 43 #7073

(with Yu, T. K.) Observability of a class of hyperbolic distributed parameter systems. *IEEE Trans. Automatic Control* AC-16 (1971), 495-497. (Yaakov Yavin) 44 #6370

Šeĭnin, O. B.

R. Adrain's works in the theory of errors and its applications. (Russian) *Istor.-Mat. Issled. No.* 16 (1965), 325-336. (D. J. Struik) 33 #2511

On Daniel Bernoulli's article of 1777 and on Euler's commentaries. (Russian) *Voprosy Istor. Estestvoznan. i Tehn. Vyp.* 19 (1965), 115-117. (D. J. Struik) 37 #15

Šeĭnov, V. P.

A criterion for rationality for holomorphic functions of two complex variables. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166, 223-227 (1966). (H. Tornehave) 36 #1695

An integral representation for circular regions of C^2 and some applications of it. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1423-1431. (H. Tornehave) 37 #3042

Integral representation in circular domains of n-dimensional complex space. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 210 (1969), 157-164. (E. J. Akutowicz) 43 #6453

Seip, Ulrich

* Über Funktionenräume und Homotopiegruppen. Inaugural-Dissertation zur Erlangung der Doktorwürde der Mathematisch-Naturwissenschaftlichen Fakultät der Freien Universität Berlin. *Dissertation, Berlin,* 1964. ii + 29 *pp.* (J. Dugundji) 31 #745

Categorical fibrations. *Canad. Math. Bull.* 10 (1967), 5-17. (G. M. Kelly) 35 #2943

Seip-Hornix, E. A. M.

Clifford algebras of quadratic quaternion forms. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 326-344. (M. J. Wonenburger) 32 #4198a

Clifford algebras of quadratic quaternion forms. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 345-363. (M. J. Wonenburger) 32 #4198b

Seĭsov, Ju. B.

On a differential game. (Russian) *Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk* 1968, *no.* 5, 3-8. (Editors) 38 #3057

An iteration method for solution of the problems of quadratic programming. (Russian. Turkmen and English summaries) *Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk* 1971, *no.* 2, 91-94. (I. Maruşciac) 44 #5108

Seita, Graziella

Intorno ad una equazione a derivate parziali del secondo tipo misto. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 327-334. (M. Schechter) 30 #2236

Seitz, Gary M.

Finite groups having only one irreducible representation of degree greater than one. *Proc. Amer. Math. Soc.* 19 (1968), 459-461. (J. S. Frame) 36 #5212

(with Wright, C. R. B.) On finite groups whose Sylow subgroups are modular or quaternion-free. *J. Algebra* 13 (1969), 374-381. (Bhama Srinivasan) 40 #238

M-groups and the supersolvable residual. *Math. Z.* 110 (1969), 101-122. (D. Woodhouse) 40 #1500

(with Wright, C. R. B.) On complements of $\mathfrak{F}$-residuals in finite solvable groups. *Arch. Math. (Basel)* 21 (1970), 139-150. (T. O. Hawkes) 42 #6117

(with Kantor, William M.) Step-by-step conjugation of p-subgroups of a group. *J. Algebra* 16 (1970), 298-310. (J. L. Alperin) 41 #8522

Seitz, Jiří

A note to the approximation of one matrix by a matrix of another rank. (Czech and Russian summaries) *Časopis Pěst. Mat.* 91 (1966), 121-124. (M. Lotkin) 33 #7350

Seixas Da Costa Cabral, Duarte. See da Costa Cabral, Duarte.

Seixas Moita Gonçalves Calado, Joaquim de. See Calado, Joaquim de Seixas Moita Gonçalves.

Sekanina, A.

(with Sekanina, M.) Topologies compatible with ordering. *Arch. Math. (Brno)* 2 (1966), 113-126. (O. Frink) 35 #100

(with Jakubík, J.; Novotný, M.; Novák, Josef; Sekanina, M.; Katriňák, T.; Fiala, F.; Kratochvíl, P.; Novák, Vítězslav; Korec, I.; Skula, L.; Šmarda, B.) Summer session on ordered sets at Cikháj. *Časopis Pěst. Mat.* 91 (1966), 92-103. (Summary) 32 #7458

Sekanina, Milan

(with Koutský, Karel) On the R-modification and several other modifications of a topology. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1960, 45-64. (Authors' summary) 31 #707

(with Koutský, Karel) On the systems of topologies with a given modification. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1960, 425-464. (A. Malčev (RŽMat 1964 #8 A286)) 31 #708

(with Koutský, K.) Modifications of topologies. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague,* 1961*), pp.* 254-256. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (J. R. Isbell) 31 #1644

(with Polák, V.) On decompositions of the plane into subsets of topological circles. (Russian. Czech and English summaries) *Časopis Pěst. Mat.* 88 (1963), 14-28. (Đ. Kurepa) 31 #5803

On an ordering of the vertices of a graph. (Czech and Russian summaries) *Časopis Pěst. Mat.* 88 (1963), 265-282. (W. T. Tutte) 31 #5817

On the factorization of the set of non-negative integers. (Russian. English summary) *Czechoslovak Math. J.* 14(89) (1964), 161-170. (F. Haimo) 29 #2211

(with Koutský, Karel; Polák, Václav) On the commutativity of modification. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1964, 275-292. (J. M. Day) 33 #4883

On ordering of the system of all subsets of a given set. *Z. Math. Logik Grundlagen Math.* 10 (1964), 283-301. (G. Bruns) 30 #1062

A remark to the paper of M. Froda-Schechter: Préordres et équivalences dans l'ensemble des familles d'un ensemble. *Arch. Math. (Brno)* 1 (1965), 57-58. (A. R. Bednarek) 34 #2472

On the power of ordered sets. *Arch. Math. (Brno)* 1 (1965), 75-82. (G. Bruns) 34 #7415

(with Fischer, Otto; Hájek, Jaroslav; Koutník, Václav; Novotný, Miroslav) 60 year anniversary of Academician Josef Novák. (Czech) *Časopis Pěst. Mat.* 90 (1965), 236-246. (1 *plate*) (T. T. Tonkov) 33 #1214

Life and works of Professor Dr. Karel Koutsky. (Czech) *Časopis Pěst. Mat.* 90 (1965), 250-256. 32 #7386

Systems of topologies on a given set. (Russian. English summary) *Czechoslovak Math. J.* 15(90) (1965), 9-29. (P. C. Hammer) 32 #1666

(with Neuman, František) Equivalent systems of sets and homeomorphic topologies. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 323-328. (R. Sikorski) 31 #3338

(with Sekanina, A.) Topologies compatible with ordering. *Arch. Math. (Brno)* 2 (1966), 113-126. (O. Frink) 35 #100

(with Jakubík, J.; Novotný, M.; Novák, Josef; Sekanina, A.; Katriňák, T.; Fiala, F.; Kratochvíl, P.; Novák, Vítězslav; Korec, I.; Skula, L.; Šmarda, B.) Summer session on ordered sets at Cikháj. *Časopis Pěst. Mat.* 91 (1966), 92-103. (Summary) 32 #7458

Topologies compatible with ordering. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos.,* 1966*), pp.* 326-329. *Academia, Prague,* 1967. (E. S. Wolk) 38 #96

Verallgemeinerte Hamiltonsche Linien. *Beitrage zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 147-156. *Teubner, Leipzig,* 1968. (R. A. Brualdi) 39 #6775

Categories of ordered sets. *Arch. Math. (Brno)* 4 (1968), 25-59. (H.-B. Brinkmann) 41 #8322a (E)

Errata to: "Categories of ordered sets". *Arch. Math. (Brno)* 4 (1968), 131. (H.-B. Brinkmann) 41 #8322b

On a characterisation of the system of all regularly closed sets in general closure spaces. *Math. Nachr.* 38 (1968), 61-66. (O. Frink) 38 #3189

Embedding of the category of partially ordered sets into the category of topological spaces. *Fund. Math.* 66 (1969/70), 95-98. (L. E. Ward, Jr.) 40 #5505

Number of polynomials in ordered algebras. *Colloq. Math.* 22 (1971), 181-192. (K. A. Baker) 44 #139

On orderings of the system of subsets of ordered sets. *Fund. Math.* 70 (1971), *no.* 3, 231-243. (V. S. Krishnan) 44 #2673

Sekeev, K.

(with Anandosov, A. A.; Stamgaziev, K. M.) On the question of stability of elastic bodies. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 11-17. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (I. Aganović) 39 #7843

Sekerka, Bohuslav

Time lags in models of renewal. (Czech. English summary) *Ekonom.-Mat. Obzor* 7 (1971), 61-68. (J. Štěpán) 43 #8145

Sekerzh-Zen'kovich, S. Ya. See Sekerž-Zen'kovič, S. Ja.

Sekerž-Zen'kovič, Ja. I.

Theory of steady capillary gravitational waves of finite amplitude on the surface of a fluid over a wavy bottom. (Russian) *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963*), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 362-381. *Izdat. "Nauka", Moscow,* 1965. (M. D. Friedman) 33 #3558

Sekerž-Zen'kovič, S. Ja.

Diffraction of plane waves by a circular island. *Izv. Akad. Nauk SSSR Ser. Fiz. Atmosfer. i Okeana* 4 (1968), 69-79 *(Russian); translated as Izv. Acad. Sci. USSR Atmospher. Ocean. Phys.* 4 (1968), 35-40. (Y. Hayashi) 44 #1318

Sekerž-Zen'kovič, Ya. I. See Sekerž-Zen'kovič, Ja. I.

Sekharan, K. Chandra. See Chandrasekharan, Komaravolu.

Sekigawa, Kouei

On hypersurfaces in spaces of constant curvature satisfying a certain condition on the curvature tensor. *Sci. Rep. Niigata Univ. Ser. A No.* 6 (1968), 1-8. (T. Nagano) 39 #6215

On complex hypersurfaces of spaces of constant holomorphic sectional curvature satisfying a certain condition on the curvature tensor. *Sci. Rep. Niigata Univ. Ser. A No.* 6 (1968), 51-57. (T. Nagano) 39 #6216

(with Takagi, Hitoshi) On 3-dimensional Riemannian manifolds satisfying a certain condition on the curvature tensor. *Sci. Rep. Niigata Univ. Ser. A No.* 7 (1969), 23-27. (M. Kurita) 42 #3707

On 4-dimensional connected Einstein spaces satisfying the condition $R(X,Y) \cdot R = 0$. *Sci. Rep. Niigata Univ. Ser. A No.* 7 (1969), 29-31. (Ram Behari) 41 #6103

Sufficient conditions for a Riemannian manifold to be locally symmetric. *Pacific J. Math.* 34 (1970), 157-162. (Y. Katsurada) 42 #2392

Some hypersurfaces in a Euclidean space. *Sci. Rep. Niigata Univ. Ser. A No.* 8 (1971), 19-25. (W. F. Pohl) 44 #5902

(with Takagi, Hitoshi) On conformally flat spaces satisfying a certain condition on the Ricci tensor. *Tôhoku Math. J.* (2) 23 (1971), 1-11. (J. R. Vanstone) 44 #2170

Sekiguchi, Mitsuharu

(with Matsuda, Takehiko) Models of the human forecasting behavior. A note on the relationship between the exponential smoothing method and the Bayesian method. *J. Operations Res. Soc. Japan* 13 (1970/71), 136-154. (J. J. Deely) 43 #8183

Sekiguchi, Shigeru

(with Kobayashi, Kojiro) On the class of predicates decidable by two-way multitape finite automata. *J. Assoc. Comput. Mach.* 13 (1966), 236-261. (Authors' summary) 34 #1113

Sekine, Katsuhiko

Modèle calculable d'une particule composée. Aspect dynamique. *Cahiers de Phys.* 18 (1964), 178-188. (Author's summary) 30 #1763

Problème de renormalisation abstrait. *C. R. Acad. Sci. Paris* 261 (1965), 4995-4998. (R. Delbourgo) 32 #8779

Exemple d'équations renormalisées finies. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A158-A161. (R. Delbourgo) 33 #2214

Initial value problem for elementary and composite particles. *Nuclear Phys.* 76 (1966), 513-538. (D. Lurié) 33 #2259

Problème de Cauchy dans le modèle de Lee en métrique indéfinie. *E. W. Beth Memorial Colloquium (Paris, 1964), pp.* 106-117. *D. Reidel, Dordrecht,* 1968. (W. Güttinger) 38 #6809

Sekine, Th. T.

Commodity-reserve currency and international equilibrium. *Metroecon.* 22 (1970), 16-30. (I. M. Stancu-Minasian) 44 #1399

Sekiya, Tamotsu

(with Yamagishi, Tomejiro) Solutions of Boltzmann equation in hydrogeneous chain reacting system. *Tech. Rep. Osaka Univ.* 19 (1969), 29-37. (A. K. Aziz) 41 #2238

Sekizawa, Masami

A note on the complete lift of Φ-tensors to a tangent bundle. *TRU Math.* 5 (1969), 43-45. (S. Takizawa) 42 #3697

On extended almost analytic vector fields in tangent bundles of manifolds with a non-linear connection. *TRU Math.* 4 (1968), 14-20. (E. Heil) 42 #3700

Sekkappan, R. M.

A problem in type II counter. *Calcutta Statist. Assoc. Bull.* 15 (1966), 169-174. (L. Takács) 36 #993

Sekrieru, I. V.

The eigenvectors of strongly positive operators in a partially ordered Banach space. (Russian) *Bul. Akad. Ştiince RSS Moldoven.* 1970, *no.* 3, 79-82. (I. K. Marek) 44 #2060

Properties of *K*-projectors in a *KH*-space. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2(16), 178-182. (J. Jakubík) 43 #2464

Seksenbaev, K.

The group of automorphisms of the restricted wreath product of two cyclic groups. (Russian) *Studies in Differential Equations and their Applications (Russian), pp.* 180-183. *Izdat. "Nauka", Alma-Ata,* 1965. (J. Wiegold) 32 #5722

On the theory of polycyclic groups. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 3, 79-83. (H. Heineken) 33 #5735

On the anticenter of bundles of groups. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 20-24. (Ladislav Procházka) 34 #2671

The finitary approximability of the finite extension of a nilpotent group with respect to conjugacy. (Russian) *Algebra i Logika* 6 (1967), *no.* 6, 29-31. (R. Göbel) 37 #2861

The group of automorphisms of the restricted wreath product of two groups. (Russian. Kazakh summary) *Vestnik Akad. Nauk Kazah. SSR* 25 (1969), *no.* 12 (296), 43-45. (M. Greendlinger) 44 #301

Selberg, Atle

Discontinuous groups and harmonic analysis. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 177-189. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #372

On the estimation of Fourier coefficients of modular forms. *Proc. Sympos. Pure Math., Vol. VIII, pp.* 1-15. *Amer. Math. Soc., Providence, R. I.,* 1965. (J. R. Smart) 32 #93

(with Chowla, S.) On Epstein's zeta-function. *J. Reine Angew. Math.* 227 (1967), 86-110. (E. Grosswald) 35 #6632

Recent developments in the theory of discontinuous groups of motions of symmetric spaces. *Proceedings of the Fifteenth Scandinavian Congress (Oslo, 1968), Lecture Notes in Mathematics, Vol.* 118, *pp.* 99-120. *Springer, Berlin,* 1970. (W. T. van Est) 41 #8595

Selberg, Henrik L.

Über eine Integralungleichung der Potentialtheorie. *Norske Vid. Selsk. Forh. (Trondheim)* 36 (1963), 4-9. (A. Haimovici) 29 #3657

Über die Greensche Funktion eines ebenen Gebietes. *Norske Vid. Selsk. Forh. (Trondheim)* 36 (1963), 69-71. (A. Haimovici) 29 #3658

Über einen Satz von Picard. *Norske Vid. Selsk. Forh. (Trondheim)* 36 (1963), 145-149. (A. Pfluger) 29 #2398

Über die Greensche Funktion eines mehrfach zusammenhängenden Gebietes. *Norske Vid. Selsk. Forh. (Trondheim)* 36 (1963), 177-184. (A. Haimovici) 29 #3659

Über die greensche Funktion eines durch wiederholte Spiegelung erhaltenen Gebietes. *Norske Vid. Selsk. Skr. (Trondheim)* 1964, *No.* 5, 10 *pp.* (L. V. Ahlfors) 31 #2385

Über den Zusammenhang zwischen Kapazität und logarithmischem Mass ebener Punktmengen. *Norske Vid. Selsk. Skr. (Trondheim)* 1964, *No.* 6, 9 *pp.* (A. Pfluger) 31 #1348

Über einen Satz von Fabry. *Norske Vid. Selsk. Skr. (Trondheim)* 1967, *no.* 2, 9 *pp.* (G. Halász) 37 #384

Selberg, Sigmund

Ernst Jacobsthal. (Dutch) *Norske Vid. Selsk. Forh. (Trondheim)* 38 (1965), 70-73. (Editors) 33 #17

(See also Jacobsthal, Ernst, 38 #104)

Selby, B.

Girdle distributions on a sphere. *Biometrika* 51 (1964), 381-392. (M. Dwass) 30 #5411

The index of dispersion as a test statistic. *Biometrika* 52 (1965), 627-629. (C. C. Craig) 34 #8557

Selden, John

A note on compact semirings. *Proc. Amer. Math. Soc.* 15 (1964), 882-886. (R. P. Hunter) 29 #5229

Left zero simplicity in semirings. *Proc. Amer. Math. Soc.* 17 (1966), 694-698. (R. P. Hunter) 33 #1334

(with Madison, B.) Clans on group-supporting spaces. *Proc. Amer. Math. Soc.* 18 (1967), 540-545. (P. S. Mostert) 35 #5545

(with Eberhart, Carl) On the closure of the bicyclic semigroup. *Trans. Amer. Math. Soc.* 144 (1969), 115-126. (K. N. Sigmon) 40 #5767

Selder, Helmut

Über singuläre Stellen in den Differentialgleichungen des Dreikörperproblems. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1964, *Abt. II,* 13-48 (1965). (Y. Sibuya) 32 #7852

Seldin, Jonathan P.

Note on definitional reductions. *Notre Dame J. Formal Logic* 9 (1968), 4-6. (G. Kreisel) 38 #5629 (E)

Corrigendum to my paper: "Note on definitional reduction". *Notre Dame J. Formal Logic* 10 (1969), 412. (Editors) 40 #45

Šelegija, R. S.

A certain generalization of Rényi's theorem. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 537-540. (B. Choczewski) 43 #4143

A certain problem of queueing theory. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 58 (1970), 281-284. (K. Wickwire) 43 #4449

(with Mikadze, I. S.) On the question of the realizability of the fulfillment of a task on a digital computer with regard to its reliability. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 60 (1970), 665-668. (I. Văduva) 44 #1275

The probability of states in the accumulator of an information system. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 62 (1971), 25-28. (H. P. Edmundson) 44 #2383

Šelehov, A. M.

Line complexes in $^{l}S_4$. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 202, 351-372 (1968). (R. Geidel'man (RŽMat 1969 #2 A636)) 41 #9118

A certain property of normal families of lines in multidimensional noneuclidean space. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 144-148. (M. C. Chaki) 44 #3229

(with Akivis, M. A.) The computation of the curvature and torsion tensors of a multidimensional three-web and of the associator of the local quasigroup that is connected with it. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 953-960. (V. Oproiu) 44 #5876

(with Akivis, M. A.) Local differentiable quasigroups and connections that are associated with a three-web of multidimensional surfaces. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 1181-1191. (V. Oproiu) 44 #5877

Šelement'ev, G. S.

Optimal combination of control and tracking. *Prikl. Mat. Meh.* 32 (1968), 185-193 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 180-187. (P. L. Falb) 38 #6427

(with Al'breht, È. G.) Effect of a nonholonomic constraint on the stabilizability of a mechanical system. *Prikl. Mat. Meh.* 32 (1968), 744-747 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 773-776 (1969). (V. Staikos) 39 #4502

On a certain motion correction problem. *Prikl. Mat. Meh.* 33 (1969), 251-260 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 235-244. (M. Thoma (Zbl 206, 450)) 44 #2508

Selenius, Clas-Olof

Kriterien für Zahlen quadratischer Zahlkörper mit Normbetrag kleiner als die Quadratwurzel aus der Diskriminante. *Acta Acad. Åbo. Ser. B* 26 (1966), *no.* 3, 23 *pp.* (R. Finkelstein) 34 #2559

Kriterien für diophantische Ungleichungen, indefinite Hauptformen und Hauptideale quadratischer Zahlkörper. *Ark. Mat.* 6, 467-483 (1966). (O. H. Körner) 33 #5560

Ein Kriterium für die periodischen Diagonalkettenbrüche. *Math. Ann.* 164 (1966), 94-103. (H. S. Wall) 33 #1614

Quasireduzierte indefinite binäre quadratische Formen. *Acta Acad. Åbo. Ser. B* 28, *no.* 7, 11 *pp.* (1968). (Burton W. Jones) 38 #4504

Šelepen', S. A.

A bound on the norm of the inverse operator for an integral equation of Fredholm type. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 111-115. (S. Drobot) 31 #1527

Šelepin, L. A.

On the symmetry of the Clebsch-Gordan coefficients. *Ž. Èksper. Theoret. Fiz.* 46 (1964), 1033-1038 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 702-705. (T. Regge) 31 #5571

SU_n symmetry in the theory of Clebsch-Gordan coefficients. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 360-367 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 238-242. (T. Regge) 33 #3693

Šelepov, V. Ju.

(with Daniljuk, Ī. Ī.) Boundedness in L_p of a singular operator with Cauchy kernel along a curve of bounded rotation. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 514-517. (D. Mitrović) 35 #5587

The Riemann problem in regions whose boundary has bounded rotation. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 565-568. (I. Aganović) 38 #1275

The index of an integral operator of potential type in the space L_p. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 1266-1268. (M. Cotlar) 40 #1823

(with Daniljuk, Ī. Ī.) The boundedness in weighted L_p spaces of singular integral operators along curves of bounded rotation. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 199-203, 267. (Authors' summary) 40 #1824

Šelest, V. P.

(with Vašakidze, I. Š.; Muradjan, R. M.; Tavhelidze, A. N.; Čilašvili, G. A.) Analytic features of the scattering amplitude in the nonrelativistic three-body problem. *Dokl. Akad. Nauk SSSR* 158 (1964), 1302-1305 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 910-912. (R. L. Omnès) 32 #809

(with Stojanov, D.) Scattering matrix elements in the relativistic three body problem. *Phys. Lett.* 13 (1964), 253-255. (R. L. Omnès) 32 #807b

(with Mitropol's'kiĭ, Ju. O.; Parasjuk, O. S.) Nikolaĭ Nikolaevič Bogoljubov (on his sixtieth birthday). (Russian) *Ukrain. Mat. Ž.* 21 (1969), 435-446. (Editors) 40 #4066

Selezneva, F. G. See Selezn'ova, F. G.

Selezn'ova, F. G.

The initial value problem for general systems of partial differential equations with constant coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 36-38. (V. Barbu) 38 #2433

The mixed problem for some equations in two independent variables which are correct in the sense of Petrovskiĭ. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 326-330. (I. O. Bohachevsky) 35 #3236

(with Èĭdel'man, S. D.) An initial value problem for systems with constant coefficients. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2062-2073. (I. O. Bohachevsky) 44 #601

(with Èĭdel'man, S. D.) Solvability of boundary value problems on the plane for systems with constant coefficients that are well posed in the sense of I. G. Petrovksiĭ. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 1354-1362. (J. Chrastina) 44 #5607

Selezov, I. T.

A study of wave processes in cylindrical shells on the basis of a generalized theory. (Ukrainian. Russian summary) *Prikladna Meh.* 9 (1963), 480-485. (Z. Kączkowski) 32 #8587

On the reduction of a non-linear problem of hydro-elasticity to the solution of a system of linear differential equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1964, 185-188. (Author's summary) 29 #3092

Selfridge, John L.

(with Erdős, P.) Some problems on the prime factors of consecutive integers. *Illinois J. Math.* 11 (1967), 428-430. (T. M. Apostol) 37 #5144

(with Brillhart, John) Some factorizations of $2^n \pm 1$ and related results. *Math. Comp.* 21 (1967), 87-96; *corrigendum, ibid.* 21 (1967), 751. (Edgar Karst) 37 #131

(with Lander, L. J.; Parkin, T. R.) A survey of equal sums of like powers. *Math. Comp.* 21 (1967), 446-459. (From the authors' introduction) 36 #5060

(with Golomb, Solomon W.) Unicursal polygonal paths and other graphs on point lattices. *Pi Mu Epsilon J.* 5 (1970), 107-117. (R. A. Brualdi) 42 #2962

Selfridge, R. G.

(with Chawla, L. M.; Maxfield, John E.) On a form representing a large collection of primes. *J. Natur. Sci. and Math.* 6 (1966), 241-242. (H. Gupta) 36 #1386

Selig, Franz

Variational principle for Rayleigh-Taylor instability. *Phys. Fluids* 7 (1964), 1114-1116. (W. Lai) 29 #6737

Seligman, George B.

* Modular Lie algebras. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 40. *Springer-Verlag New York, Inc., New York*, 1967. ix + 165 *pp.* (R. E. Block) 39 #6933

Some results on Lie *p*-algebras. *Bull. Amer. Math. Soc.* 73 (1967), 528-530. (E. J. Taft) 36 #2664

Algebraic Lie algebras. *Bull. Amer. Math. Soc.* 74 (1968), 1051-1065. (K.-H. Helwig) 38 #1133

On some commutative unipotent groups. *Invent. Math.* 5 (1968), 129-137. (R. Steinberg) 37 #2760

Seligman, T. H.

(with Moshinsky, M.) Group theory and second quantization for nonorthogonal orbitals. *Ann. Physics* 66 (1971), 311-334. (J. Rosen) 43 #7141

Selim, M. A.

A note on linearization of some nonlinear parabolic partial differential equations. *Nederl. Akad. Wentensch. Proc. Ser. B* 69 (1966), 251-254. (Editors) 33 #440

Selin, Ivan

The design of a sequential test for the detection of known signal in normal non-white noise. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp.* 621-628. *Publ. House Czech. Acad. Sci., Prague*, 1964. (Author's summary) 29 #2114

Estimation of the relative delay of two similar signals of unknown phases in white Gaussian noise. *IEEE Trans. Information Theory* IT-10 (1964), 189-191. (W. L. Root) 30 #4606

The sequential estimation and detection of signals in normal noise. I. *Information and Control* 7 (1964), 512-534. (W. L. Root) 30 #5835

* Detection theory. *Princeton University Press, Princeton, N. J.*, 1965. xiii + 127 *pp.* (T. Kailath) 32 #1061

Detection of coherent radar returns of unknown Doppler shift. *IEEE Trans. Information Theory* IT-11 (1965), 396-400. 32 #3944

The sequential estimation and detection of signals in normal noise. II. *Information and Control* 8 (1965), 1-35. (W. L. Root) 30 #5836

Selin, V. Ja.

(with D'jakov, Ju. E.) Mean value and variance of the number of crossings of a random process through a given level. *Radiotehn. i Èlektron.* 9 (1964), 1687-1691 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 1392-1396. 32 #7313

The mean and variance of the estimate of a univariate distribution of a stationary ergodic random process. *Radiotehn. i Èlektron.* 13 (1968), 927-929 *(Russian); translated as Radio Engrg. Electron. Phys.* 1968, 801-803. (F. Eicker) 39 #3670

Selivanov, B. I.

Certain explicit formulas in the theory of random branching processes with discrete time and a single type of particles. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 348-354. (J. Wolfowitz) 39 #7682

Selivanov, Ju. A.

(with Ryžkov, V. V.) Partially ordered loops. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 104-123 (1968). (B. M. Schein (Šaĭn)) 38 #3197

Ordered loops. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 8 (99), 103-111. (L. Fuchs) 43 #3187

Seliverstov, V. M.

On the *-regularity of the ring of matrices over a given ring. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 229-233. (W. Stephenson) 36 #6458

Sell, George R.

A note on the fundamental theory of ordinary differential equations. *Bull. Amer. Math. Soc.* 70 (1964), 529-535. (E. O. Roxin) 29 #339

Boundedness of solutions of ordinary differential equations and Lyapunov functions. *J. Math. Anal. Appl.* 9 (1964), 477-490. (P. Seibert) 31 #2456

On the fundamental theory of ordinary differential equations. *J. Differential Equations* 1 (1965), 370-392. (D. E. Edmunds) 31 #405 (with Deysach, Lawrence G.) On the existence of almost periodic motions. *Michigan Math. J.* 12 (1965), 87-95. (C. R. Putnam) 30 #3279

Boundedness of solutions of ordinary differential equations and Lyapunov functions. (Russian and Polish summaries) *Nonlinear Vibration Problems, Vol.* 6, *pp.* 29-39. *Państw. Wydawn. Nauk., Warsaw,* 1966. (T. A. Burton) 36 #469

Almost periodic and periodic solutions of difference equations. *Bull. Amer. Math. Soc.* 72 (1966), 261-265. (I. M. Sheffer) 32 #7982

Periodic solutions and asymptotic stability. *J. Differential Equations* 2 (1966), 143-157. (R. Liu) 32 #7891

Periodic solutions of fourth-order differential equations. *Proc. Amer. Math. Soc.* 17 (1966), 808-809. (R. A. Struble) 33 #7637

(with Sibuya, Yasutaka) Behavior of solutions near a critical point. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn.,* 1967*), pp.* 501-506. *Benjamin, New York,* 1967. (W. Wasow) 36 #6713

Some perturbation problems in ordinary differential equations. *Funkcial. Ekvac.* 10 (1967), 1-13. (T. Yoshizawa) 36 #5456

Correction to: "Periodic solutions of fourth-order differential equations". *Proc. Amer. Math. Soc.* 18 (1967), 243. (R. A. Struble) 35 #471

Nonautonomous differential equations and topological dynamics. I. The basic theory. *Trans. Amer. Math. Soc.* 127 (1967), 241-262. (T. Ura) 35 #3187a

Nonautonomous differential equations and topological dynamics. II. Limiting equations. *Trans. Amer. Math. Soc.* 127 (1967), 263-283. (T. Ura) 35 #3187b

Invariant measures and Poisson stability. *Topological Dynamics (Symposium, Colorado State Univ., Ft. Collins, Colo.,* 1967*), pp.* 435-454. *Benjamin, New York,* 1968. (J. O. C. Ezeilo) 43 #650

(with Miller, Richard K.) Existence, uniqueness and continuity of solutions of integral equations. *Ann. Mat. Pura Appl.* (4) 80 (1968), 135-152. (K. N. Srivastava) 40 #663 (E)

(with Markus, Lawrence) Capture and control in conservative dynamical systems. *Arch. Rational Mech. Anal.* 31 (1968/69), 271-287. (J. E. Marsden) 38 #2406

(with Miller, Richard K.) A note on Volterra integral equations and topological dynamics. *Bull. Amer. Math. Soc.* 74 (1968), 904-908. (P. M. Anselone) 38 #1483

Compact sets of nonlinear operators. *Funkcial. Ekvac.* 11 (1968), 131-138. (M. Edelstein) 38 #6413

(with Baum, Leonard E.) Growth transformations for functions on manifolds. *Pacific J. Math.* 27 (1968), 211-227. (W. L. Reddy) 38 #2811

(with Schmaedeke, Wayne W.) The Gronwall inequality for modified Stieltjes integrals. *Proc. Amer. Math. Soc.* 19 (1968), 1217-1222. (S. J. Taylor) 37 #6422

* (with Miller, Richard K.) Volterra integral equations and topological dynamics. Memoirs of the American Mathematical Society, No. 102. *American Mathematical Society, Providence, R. I.,* 1970. iii + 67 pp. (J. Auslander) 44 #5579

(with Miller, Richard K.) Existence, uniqueness and continuity of solutions of integral equations. An addendum. *Ann. Mat. Pura Appl.* (4) 87 (1970), 281-286. (K. N. Srivastava) 43 #7887

Sellers, Peter H.

Algebraic complexes applied to chemistry. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 693-698. (J. P. Roth) 34 #6758

Algebraic complexes which characterize chemical networks. *SIAM J. Appl. Math.* 15 (1967), 13-68. (J. P. Roth) 36 #2141

Sells, C. C. L.

Surface tension effect on waves in a liquid layer. *Proc. Cambridge Philos. Soc.* 60 (1964), 657-666. (F. Ursell) 31 #1844

Selmer, Ernst S.

Binary registers and linear recurrence. (Norwegian. English summary) *Nordisk Mat. Tidskr.* 16 (1968), 5-28. (Author's summary) 37 #7114

Apropos Finn Holme's article. (Norwegian. English summary) *Nordisk Mat. Tidskr.* 18 (1970), 93-94, 120. (Editors) 42 #8124

Selten, Reinhard

Valuation of *n*-person games. *Advances in game theory, pp.* 577-626. *Princeton Univ. Press, Princeton, N. J.,* 1964. (J. C. Harsanyi) 29 #1081

Selucký, K.

Divisibility of infinite coprime sequences. *Amer. Math. Monthly* 75 (1968), 43-44. (I. Niven) 37 #3996

Šelud′ko, G. A.

(with Starsosel′skiĭ, L. A.; Kantor, B. Ja.) A realization of the gully method with adaptation of the size of the gully spacing according to the exponential law. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1161-1167. (A. Rapoport) 39 #2300

Selzer, Adolph

(with Motz, Lloyd) Quantum mechanics and the relativistic Hamilton-Jacobi equation. *Phys. Rev.* (2) 133 (1964), B1622-B1624. (K. J. Le Couteur) 29 #918

Semadeni, Zbigniew

(with Ciesielski, Z.) A survey of some of the most recent methods in potential theory. I. Generalized solutions of the Dirichlet problem, potentials and capacities. (Polish. Russian and English summaries) *Prace Mat.* 8 (1963/64), 147-191. (J. Král) 30 #1260

Generalizations of Bohr's theorem on Fourier series with independent characters. *Studia Math.* 23 (1963), 159-179. (F. I. Mautner) 29 #6256

Periods of measurable functions and the Stone-Čech compactification. *Amer. Math. Monthly* 71 (1964), 891-893. (R. P. Boas, Jr.) 30 #1225

On weak convergence of measures and σ-complete Boolean algebras. *Colloq. Math.* 12 (1964), 229-233. (S. Heckscher) 30 #4889

Spaces of continuous functions on compact sets. *Advances in Math.* 1, *fasc.* 3, 319-382 (1965). (J. R. Isbell) 32 #2937

Free compact convex sets. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 141-146. (Author's summary) 32 #8130

(with Zidenberg, H.) Inductive and inverse limits in the category of Banach spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 579-583. (J. R. Isbell) 33 #3080

(with Ciesielski, Z.) Survey of some recent methods in potential theory. II. Generalized notions of a boundary. (Polish. English summary) *Prace Mat.* 9 (1965), 149-168. (J. Král) 32 #4287

Free objects in the theory of categories. *Colloq. Math.* 14 (1966), 107-110. (J. R. Isbell) 32 #4176

Structures in the sense of Bourbaki and categories. (Polish. English summary) *Prace Mat.* 10 (1966), 37-50. (K. Drbohlav) 33 #89

Categorical methods in convexity. *Proc. Colloquium on Convexity (Copenhagen,* 1965*), pp.* 281-307. *Københavns Univ. Mat. Inst., Copenhagen,* 1967. (J. R. Isbell) 35 #7200

(with Ciesielski, Z.) A survey of some newer methods in potential theory. III. Probabilistic methods in potential theory. (Polish. English summary) *Prace Mat.* 11 (1967), 99-128. (J. Král) 36 #2823

(with Zidenberg, H.) On preordered topological spaces and increasing semicontinuous functions. *Prace Mat.* 11 (1968), 313-316. (L. E. Ward, Jr.) 37 #2191

Inverse limits of compact spaces and direct limits of spaces of continuous functions. *Studia Math.* 31 (1968), 373-382. (R. Bennett) 39 #1949

Notes to J. Mikusiński's article "On a theorem of Zorn". (Polish) *Wiadom. Mat.* (2) 10, 145-146 (1968). (J. Mycielski) 39 #1273

(with Pełczyński, A.) Remarks on the development of functional analysis in Poland. (Polish) *Wiadom. Mat.* (2) 12, 83-108 (1969). 39 #6720

The Banach-Mazur functor and related functors. *Comment. Math. Prace Mat.* 14 (1970), 173-182. (Bor-Luh Lin) 43 #885

(with Wiweger, A.) A theorem of Eilenberg-Watts type for tensor products of Banach spaces. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 235-242. (Bor-Luh Lin) 43 #3774

Semakov, L. A.

On the synthesis of a second order time-optimal system with controlled structure. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 107 (1968), 88-97. (C. Kallina) 41 #1411

Šembel′, V. I.

On certain properties of countably multiple series. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 2 (1961), 47-58 (1962). (M. Tomić) 32 #2773

A representation of the zero-differences and Stirling numbers of the first kind. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 3 (1963), 185-193. (W. Schwarz) 32 #1464

Sember, John J.

A note on conull FK spaces and variation matrices. *Math. Z.* 108 (1968), 1-6. (D. J. H. Garling) 42 #8255

Summability matrices as compact-like operators. *J. London Math. Soc.* (2) 2 (1970), 530-534. (M. S. Ramanujan) 42 #732

The associative part of a convergence domain is invariant. *Canad. Math. Bull.* 13 (1970), 147-148. (D. L. Prullage) 41 #8870

Variational FK spaces and two-norm convergence. *Math. Z.* 119 (1971), 153-159. (J. P. King) 43 #6627

Semčinov, K. N.

On a problem in the theory of non-linear elasticity. (Russian) *Inž. Ž.* 1 (1961), *no.* 1, 104-110. (M. Mişicu) 31 #2875

Semencul, A. A.

(See Gohberg, I. C.; Fel′dman, I. A., 37 #1915)

The inversion of finite sections of paired operators and their transposes. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 100-107. (K. Veselić) 41 #9025

(with Gohberg, I. C.) Toeplitz matrices composed of the Fourier coefficients of functions with discontinuities of almost periodic type. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 4 (18), 63-83. (S. G. Samko) 44 #7379

Semendiaev, K. A. See Semendjaev, K. A.

Semendjaev, K. A.

* (with Bronšteĭn, I. N.) Taschenbuch der Mathematik für Ingenieure und Studenten der technischen Hochschulen. Sechste unveränderte Auflage. Deutsche Übersetzung und Redaktion von Viktor Ziegler. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1963. xiii 584 *pp.* (P. J. Davis) 31 #908

* (with Bronšteĭn, I. N.) A guide-book to mathematics for technologists and engineers. Translated by Jan Jaworowski and Michael N. Bleicher. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. 783 *pp.* (Editors) 31 #909

Semendjajew, K. A. See Semendjaev, K. A.

Semendyaev, K. A. See Semendjaev, K. A.

Semenenko, M. I.

Properties of certain sublogics of the classical and intuitionistic propositional calculi. (Russian) *Z. Math. Logik Grundlagen Math.* 16 (1970), 201-238. (A. Heyting) 44 #29

Semenjuta, V. N.

(with Simonenko, I. B.) The index of multidimensional discrete convolutions. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 2 (12), 88-94. (Edwin Hewitt) 41 #2413

(with Simonenko, I. B.) Computation of the index of multidimensional discrete convolutions. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 4 (14), 134-141. (László Zsidó) 44 #3138

Calculation of the index of generalized continual convolutions. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 2 (20), 113-121, 162. (Edwin Hewitt) 44 #4591

Semenov, A. S.

(with Troickiĭ, V. A.) Problems of optimization with constraints imposed on the phase coordinates. *Prikl. Mat. Meh.* 34 (1970), 127-131 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 115-120. (S. F. Moon) 42 #2842

Semenov, E. M.

Embedding theorems for Banach spaces of measurable functions. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1292-1295. (M. M. Day) 30 #3368

Interpolation of linear operators in symmetric spaces. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 746-749. (J. Friberg) 32 #8139

(with Salehov, D. V.) On Lebesgue-Banach points. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 151-156. (M. Tomić) 33 #250

(with Kreĭn, S. G.; Petunin, Ju. I.) Hyperscales of Banach lattices. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 265-267. (J. Peetre) 34 #3299

Interpolation of linear operators and estimates of Fourier coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1251-1254. (V. Istrăţescu) 36 #4364

(with Kreĭn, S. G.; Petunin, Ju. I.) Scales of Banach lattices of measurable functions. (Russian) *Trudy Moskov. Mat. Obšč.* 17 (1967), 293-322. (E. Strzelecki) 36 #6925

A new interpolation theorem. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 68-80. (M. Cotlar) 38 #4989

A certain method for obtaining interpolation theorems in symmetric spaces. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 1243-1246. (Z. Semadeni) 40 #1799

(with Salehov, D. V.) The convergence of a certain family of functionals in an Orlicz space. (Russian) *Studia Math.* 32 (1969), 285-293. (A. J. Lazar) 39 7415

Semenov, I. P.

Convergence of the method of straight lines in the solution of boundary value problems for the equation $\Delta^2 u(x,y) = f(x,y)$. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 2, 114-122 (1966). (A. Langenbach) 37 #4976

An integro-differential equation with lagging argument. (Russian) *Collection of Candidates' Works* (1966), *Math. (Russian), pp.* 51-54. *Izdat. Kazan. Univ., Kazan,* 1966. (O. E. Stanaitis) 37 #1942

Approximate solution by the method of straight lines of an integro-differential equation with lagging argument. (Russian) *Collection of Candidates' Works* (1966), *Math. (Russian), pp.* 55-62. *Izdat. Kazan. Univ., Kazan,* 1966. (O. E. Stanaitis) 37 #1943

Semenov, M. P.

On the solubility of boundary-value problems for quasilinear elliptic systems. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 276-278. (J. Nečas) 30 #5051

On a two-point boundary-value problem. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 97-108. (F. Brauer) 31 #2449

Semenov, S. M.

Polynomials on linear topological spaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 3, 45-49. (T. Neubrunn) 42 #8237

Semenova, I. N.

Limiting projective spaces. (Russian) *Kolomen. Ped. Inst. Učen. Zap.* 8 (1964), 165-174 (1965). (Editors) 33 #2762

(with Markina, L. M.) Riemannian, pseudo-Riemannian and quasi-Riemannian *A*-spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 8 (75), 54-62. (L. Tamássy) 38 3812

(with Rozenfel′d, B. A.; Zamahovskiĭ, M. P.; Orlovskaja, T. G.) Quasisimple algebras, quasimatrices and spin representations of quasinoneuclidean motions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 4 (83), 62-73. (V. Havel) 40 #181

(with Boguslavskaja, T. M.) Objects of symmetry of complex and double Hermitian quasinoneuclidean spaces and real biquasiaffine space. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 262, 4-24 (1969). (I. Kolář) 44 #907

(with Rozenfel′d, B. A.; Boguslavskaja, T. M.; Markina, L. M.) Riemannian curvature of Hermitian-elliptic and quasielliptic spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 4 (107), 69-77. (M. C. Chaki) 44 #7454

Semenova, I. P.

(with Gogosov, V. V.; Poljanskiĭ, V. A.; Jakubenko, A. E.) One-dimensional flows in electrohydrodynamics. *Prikl. Mat. Meh.* 33 (1969), 232-239 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 218-225. (C. Rogers) 41 #6460

Semenova, L. N.

On Routh theorem for nonholonomic systems. *Prikl. Mat. Meh.* 29 (1965), 156-157 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 167-169 (1966). (C. S. Hsu) 34 #993

Semenova, T. A.

(with Rozenfel′d, B. A.; Ežova-Guseva, L. M.) Metric invariants and covariants of pairs of planes in a flagspace. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 4 (1964), 255-259. (M. Kawaguchi) 29 #5185

(with Rozenfel′d, B. A.; L′vova, L. V.) Congruences of planes in elliptic and quasi-elliptic spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 8 (63), 60-71. (V. Havel) 36 #801

Semenov-Tjan-Šanskiĭ, V. V.

Die Anwendung der der energetischen Methode zur Lösung einer nichtlinearen Schwingungsgleichung von Duffing. (Russian and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 114-122. (S. P. Diliberto) 33 #3504

Šemetkov, L. A.

The conjugacy of subgroups in a finite group. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 286-288. (N. Itô) 30 #2066

Subgroups of π-supersoluble groups. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 495-496. (H. Heineken) 29 #3537

A new *D*-theorem in the theory of finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 290-293. (P. Fong) 30 #2067

D-structure of finite groups. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 384-407. (J. Wiegold) 33 #2718

Conjugacy and imbedding of subgroups. (Russian) *Finite Groups (Russian), pp.* 172-188. *Nauka i Tehnika, Minsk,* 1966. (J. Wiegold) 34 #2685

On the normal structure of finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 534-537. (J. Wiegold) 33 #4144

On partially solvable finite groups. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 97-107. (J. Wiegold) 34 #5919

(with Mal′cev, A. I.; Safonov, S. A.; Černikov, S. M.) Sergeĭ Antonovič Čunihin. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 189-197. (1 *plate*) (Editors) 34 #5633

Isomorphic embedding of subgroups in finite groups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 303-306. (F. L. Hardy) 37 #4158

A theorem on indexials of finite groups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 969-972. (D. L. Barnett) 41 #3615

Factorization of finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 559-562. (J. Wiegold) 37 #1464

Finite solvable groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 533-559. (U. Schoenwaelder) 37 #2850

Sylow properties of finite groups. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 271-287. (N. Ito) 42 #4638

The *p*-length of arbitrary finite groups. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 394-395. (J. Wiegold) 41 #345

On D. K. Faddeev's theorem on finite solvable groups. (Russian) *Mat. Zametki* 5 (1969), 665-668. (J. Wiegold) 41 #346

On the theory of finite groups. (Russian) *Mat. Zametki* 6 (1969), 347-360. (Editors) 40 #4355

The existence of Π-complements to normal subgroups of finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 50-52. (N. Ito) 43 #354

(with Čunihin, S. A.) Finite groups. (Russian) *Algebra. Topology. Geometry,* 1969 *(Russian), pp.* 7-70. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1971. (R. Kochendörffer) 43 #3333

O. Ju. Šmidt and finite groups. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 586-590. (Editors) 44 #3826

Sëmik, V. P. See S′omik, V. P.

Şemin, Ferruh

(See Godeaux, L., 37 #4692)

Seminar, D. E.

Some elementary converse problems in ordinary differential equations. *Canad. Math. Bull.* 11 (1968), 703-716. (James S. Muldowney) 40 #434

Semjanistyĭ, V. I.

Some integral transformations and integral geometry in an elliptic space. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 12 (1963), 397-441. (L. W. Green) 29 #3879

(with Petrov, E. E.; Šibasov, L. P.) Certain integral transformations in quasi-non-Euclidean spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 220-243. (L. W. Green) 36 #2100

Certain problems of integral geometry in pseudo-Euclidean and non-Euclidean spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 244-302. (L. W. Green) 35 #7125

(with Šibasova, Z. F.) Integral geometry in Euclidean space and its connection with boundary value problems. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 269-272. (Z. Nádeník) 36 #7097

(with Gorbunova, M. I.) Elliptic coordinates in spaces with projective metric. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 262 41-46 (1969). 44 #895

Symmetric domains and Jordan algebras. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 788-791. (K. A. Ževlakov) 41 #1818

Semple, H. M.

(with Tiffen, R.) An investigation of the elastic strip and the annulus. *Mathematika* 12 (1965), 193-200. (W. D. Kroll) 32 #8575

Semple, John G.

(with Tyrrell, J. A.) Specialization of Cremona transformations. *Mathematika* 15 (1968), 171-177. (O.-H. Keller) 38 #5772

Hilda Phoebe Hudson. *Bull. London Math. Soc.* 1 (1969), 357-359. (Editors) 40 #12

(with Tyrrell, J. A.) The Cremona transformation of S_6 by quadrics through a normal elliptic septimic scroll $^1R^7$. *Mathematika* 16 (1969), 89-97. (A. Evyatar (Gutwirth)) 40 #2676

(with Du Val, P.) Note on parametrisations of normal elliptic scrolls. *Mathematika* 17 (1970), 287-292. (D. Gallarati) 44 #2746

(with Tyrrell, J. A.) The $T_{2,4}$ of S_6 defined by a rational surface $^3F^8$. *Proc. London Math. Soc.* (3) 20 (1970), 205-221. (O.-H. Keller) 41 #5367; erratum, 42, p. 1824

* (with Tyrrell, J. A.) Generalized Clifford parallelism. Cambridge Tracts in Mathematics and Mathematical Physics, No. 61. *Cambridge University Press, London-New York,* 1971. vii + 140 pp. (J. A. Todd) 44 #3179

Sen, Amiya K.

Stability of hydromagnetic Kelvin-Helmholtz discontinuity. *Phys. Fluids* 6 (1963), 1154-1163. (S. D. Nigam) 29 #3102

Effect of compressibility on Kelvin-Helmholtz instability in a plasma. *Phys. Fluids* 7 (1964), 1293-1298. (Author's summary) 29 #3103

Sen, Bibhutibhusan

Trilinear co-ordinates and boundary value problems. *Bull. Calcutta Math. Soc.* 60 (1968), 25-30. (From the author's introduction) 41 #1262

Sen, D. K.

A theoretical basis for two neutrinos. (Italian summary) *Nuovo Cimento* (10) 31 (1964), 660-669. (I. M. Barbour) 29 #4513

(with Dunn, K. A.) A scalar-tensor theory of gravitation in a modified Riemannian manifold. *J. Mathematical Phys.* 12 (1971), 578-586. (R. Behari) 44 #2474

Sen, J. K.

(with Saha, S. K.) On the continuous equivalence of non-reciprocal networks. *Internat. J. Control* (1) 10 (1969), 235-240. (Authors' summary) 39 #5255

Sen, K. K.

(with Wilson, S. J.) Modified spherical harmonic method and spherical geometry. I. Diffusion problem. (French and Russian summaries) *Ann. Astrophys.* 27 (1964), 654-659. (E. H. Avrett) 32 #3833

(with Wilson, S. J.) Modified spherical harmonic method and spherical geometry. II. Transfer problem in spherically symmetric finite stellar atmosphere. (French and Russian summaries) *Ann. Astrophys.* 28 (1965), 348-352. (E. H. Avrett) 32 #3834

(with Wilson, S. J.) Modified spherical harmonic method and spherical geometry. III. Transfer problem in spherically symmetric finite shell of planetary nebulae. (French and Russian summaries) *Ann. Astrophys.* 28 (1965), 855-859. (Authors' summary) 33 #5358

(with Wilson, S. J.) Modified spherical harmonic method and neutron transport problem with finite spherical core. *Canad. J. Phys.* 43 (1965), 432-437. (E. J. Verboven) 31 #5646

Sen, Kanwar

On some combinatorial relations concerning the symmetric random walk. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 335-357 (1965). (I. Vincze) 33 #6715

Sen, M. K.

(with Dutta, M.) On application of information-theoretic notions in the theory of numbers. *Proc. Nat. Inst. Sci. India Part A* 33 (1967), 66-73. (S. W. Golomb) 38 #947

On some properties of an integral function $f(z) * g(z)$. *Riv. Mat. Univ. Parma* (2) 8 (1967), 317-328. (R. S. L. Srivastava) 40 #2864

On the maximum term of a class of integral functions and its derivatives. *Ann. Polon. Math.* 22 (1969/70), 291-298. (M. Nassif) 41 #5621

On a class of integral functions. *Bull. Calcutta Math. Soc.* 61 (1969), 67-74. (R. Aguiló Fuster) 43 #7650

Sen, Malay

On the Phragmén-Lindelöf principle for a polyangle. *Ann. Polon. Math.* 24 (1970/71), 163-167. (R. O. Kujala) 44 #2941

Sen, Mira

Extension of a theorem of Hyslop on absolute Cesàro summability. *Proc. Japan Acad.* 40 (1964), 183-187. (E. Kogbetliantz) 29 #3790

Sen, N. R.

(See Burman, U. R., 30 #4659)

Sen, Pranab Kumar

On weighted rank-sum tests for dispersion. *Ann. Inst. Statist. Math.* 15 (1963), 117-135. (E. L. Lehmann) 30 #2604

(with Chatterjee, Shoutir Kishore) Non-parametric tests for the bivariate two-sample location problem. *Calcutta Statist. Assoc. Bull.* 13 (1964), 18-58. (I. Vincze) 33# 831

On some properties of the rank-weighted means. *J. Indian Soc. Agric. Statist.* 16 (1964), 51-61. (P. A. P. Moran) 30 #4325

On some asymptotic properties of a class of non-parametric tests based on the number of rare exceedances. *Ann. Inst. Statist. Math.* 17 (1965), 233-255. (I. R. Savage) 31 #6321

(with Chatterjee, Shoutir Kishore) Some non-parametric tests for the bivariate two-sample association problem. *Calcutta Statist. Assoc. Bull.* 14 (1965), 14-35. (G. E. Noether) 34 #901

On some permutation tests based on U-statistics. *Calcutta Statist. Assoc. Bull.* 14 (1965), 106-126. (T. A. Willke) 34 #2120

Some non-parametric tests for m-dependent time series. *J. Amer. Statist. Assoc.* 60 (1965), 134-147. (J. R. Rosenblatt) 30 #5438

(with Govindarajulu, Z.) On a class of c-sample weighted rank-sum tests for location and scale. *Ann. Inst. Statist. Math.* 18 (1966), 87-105. (J. R. Rosenblatt) 34 #2119

On nonparametric simultaneous confidence regions and tests for the one criterion analysis of variance problem. *Ann. Inst. Statist. Math.* 18 (1966), 319-336. (S. Blumenthal) 34 #8571

On a distribution-free method of estimating asymptotic efficiency of a class of non-parametric tests. *Ann. Math. Statist.* 37 (1966), 1759-1770. (G. E. Noether) 33 #8068

On some nonparametric tests for symmetry in two-way tables. *J. Indian Statist. Assoc.* 4 (1966), 125-142. (P. K. Bhattacharya) 37 #4928

(with Puri, Madan Lal) On a class of multivariate multisample rank-order tests. *Sankhyā Ser. A* 28 (1966), 353-376. (J. Hájek) 37 #7041

On a class of two-sample bivariate nonparametric tests. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 639-656. *Univ. California Press, Berkeley, Calif.,* 1967. (Z. Šidák) 36 #1059

On some nonparametric generalizations of Wilks' tests for H_M, H_{VC} and H_{MVC}. I. *Ann. Inst. Statist. Math.* 19 (1967), 451-471. (I. Olkin) 36 #7259

(with Puri, Madan Lal) On the theory of rank order tests for location in the multivariate one sample problem. *Ann. Math. Statist.* 38 (1967), 1216-1228. (G. E. Noether) 35 #3819 (E)

Asymptotically most powerful rank order tests for grouped data. *Ann. Math. Statist.* 38 (1967), 1229-1239. (G. E. Noether) 35 #3820

(with Puri, Madan Lal) On robust estimation in incomplete block designs. *Ann. Math. Statist.* 38 (1967), 1587-1591. (Soren Johansen) 35 #7517

A note on the asymptotic efficiency of Friedman's χ_r^2-test. *Biometrika* 54 (1967), 677-679. (Z. Govindarajulu) 37 #3677

U-statistics and combination of independent estimators of regular functionals. *Calcutta Statist. Assoc. Bull.* 16 (1967), 1-14. (G. E. Noether) 35# 6299

On pooled estimation and testing of heterogeneity of shift parameters by distributionfree methods. *Calcutta Statist. Assoc. Bull.* 16 (1967), 139-152. (A. P. Basu) 36 #7260

On some multisample permutation tests based on a class of U-statistics. *J. Amer. Statist. Assoc.* 62 (1967), 1201-1213. (Richard A. Johnson) 36 #4748

(with Puri, Madan Lal) On some optimum nonparametric procedures in two-way layouts. *J. Amer. Statist. Assoc.* 62 (1967), 1214-1229. (Z. Šidák) 36 #4744

A note on asymptotically distribution-free confidence bounds for $P\{X < Y\}$, based on two independent samples. *Sankhyā Ser. A* 29 (1967), 95-102. (T. A. Willke) 37 #2359

A class of permutation tests for stochastic independence. I. *Sankhyā Ser. A* 29 (1967), 157-174. (J. H. Stapleton) 37 #1043

Nonparametric tests for multivariate interchangeability. I. Problems of location and scale in bivariate distributions. *Sankhyā Ser. A* 29 (1967), 351-372. (S. Blumenthal) 37 #5990

(with David, H. A.) Paired comparisons for paired characteristics. *Ann. Math. Statist.* 39 (1968), 200-208. (Z. Šidák) 36 #4738

On a further robustness property of the test and estimator based on Wilcoxon's signed rank statistic. *Ann. Math. Statist.* 39 (1968), 282-285. (Judah Rosenblatt) 36 #4749

(with Puri, Madan Lal) Correction to: "On the theory of rank order tests for location in the multivariate one sample problem". *Ann. Math. Statist.* 39 (1968), 684. (Editors) 37 #2360

(with Puri, Madan Lal) On Chernoff-Savage tests for ordered alternatives in randomized blocks. *Ann. Math. Statist.* 39 (1968), 967-972. (G. E. Noether) 37 #1044

On a class of aligned rank order tests in two-way layouts. *Ann. Math. Statist.* 39 (1968), 1115-1124. (E. H. Lehman, Jr.) 37 #2361

Asymptotic normality of sample quantiles for m-dependent processes. *Ann. Math. Statist.* 39 (1968), 1724-1730. (S. Csibi) 38 #847

Robustness of some nonparametric procedures in linear models. *Ann. Math. Statist.* 39 (1968), 1913-1922. (P. K. Bhattacharya) 38 #5361

(with Koch, Gary G.) Some aspects of the statistical analysis of the "mixed model". (French summary) *Biometrics* 24 (1968), 27-48. (E. S. Keeping) 36 #6076

(with Puri, Madan Lal) Nonparametric confidence regions for some multivariate location problems. *J. Amer. Statist. Assoc.* 63 (1968), 1373-1378. (P. J. Bickel) 38 #5360

Estimates of the regression coefficient based on Kendall's tau. *J. Amer. Statist. Assoc.* 63 (1968), 1379-1389. (Author's summary) 41 #2848

Asymptotically efficient tests by the method of n rankings. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 312-317. (I. R. Savage) 38 #3983

(with Puri, Madan L.) On a class of multivariate multisample rank order tests. II. Tests for homogeneity of dispersion matrices. *Sankhyā Ser. A* 30 (1968), 1-22. (I. R. Savage) 37 #2358

On a class of permutation tests for stochastic independence. II. *Sankhyā Ser. A* 30 (1968), 23-30. (J. H. Stapleton) 40 #971

(with Puri, Madan L.) On a class of rank order estimators of contrasts in Manova. *Sankhyā Ser. A* 30 (1968), 31-36. (I. R. Savage) 37 #3712

(with Gabriel, K. R.) Simultaneous test procedures for one-way ANOVZ and MANOVA based on rank scores. *Sankhyā Ser. A* 30 (1968), 303-312. (A. P. Basu) 39 #7770

* (with Krishnaiah, P. R.) Some asymptotic simultaneous tests for multivariate moving average processes. ARL 69-0179. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. iv + 34 *pp.* 40 #6715

(with Puri, Madan Lal) On robust nonparametric estimation in some multivariate linear models. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio,* 1968*), pp.* 33-52. *Academic Press, New York,* 1969. (L. J. Gleser) 41 #6360

(with Puri, Madan Lal) On the asymptotic theory of rank order tests for experiments involving paired comparisons. *Ann. Inst. Statist. Math.* 21 (1969), 163-173. (E. S. Keeping) 39 #7774

On nonparametric T-method of multiple comparisons for randomized blocks. *Ann. Inst. Statist. Math.* 21 (1969), 329-333. 39 #7776

(with Puri, Madan Lal) Analysis of covariance based on general rank scores. *Ann. Math. Statist.* 40 (1969), 610-618. (G. E. Noether) 38 #6726

(with Mehra, K. L.) On a class of conditionally distribution-free tests for interactions in factorial experiments. *Ann. Math. Statist.* 40 (1969), 658-664. (E. S. Keeping) 38 #6725

(with Puri, Madan Lal) A class of rank order tests for a general linear hypothesis. *Ann. Math. Statist.* 40 (1969), 1325-1343. (J. Hájek) 39 #6467

On a class of rank order tests for the parallelism of several regression lines. *Ann. Math. Statist.* 40 (1969), 1668-1683. (M. S. Srivastava) 42 #2610

On a robustness property of a class of nonparametric tests based on u-statistics. *Calcutta Statist. Assoc. Bull.* 18 (1969), 51-60. (J. Hájek) 41 #1176

A generalization of the T-method of multiple comparisons for interactions. *J. Amer. Statist. Assoc.* 64 (1969), 290-295. (From the author's summary) 39 #2273

Nonparametric tests for multivariate interchangeability. II. The problem of MANOVA in two-way layouts. *Sankhyā Ser. A* 31 (1969), 145-156. (S. Blumenthal) 40 #6703

(with Puri, M. L.) On the asymptotic normality of one-sample rank order test statistics. (Russian summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 167-172. (I. R. Savage) 39 #6434

(with Puri, Madan Lal) On a class of rank order tests for the identity of two multiple regression surfaces. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 1-8. (S. Kullback) 39 #5022

(with Chatterjee, Shoutir Kishore) Nonparametric tests for the multisample multivariate location problem. *Essays in Probability and Statistics, pp.* 197-228. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (I. Guttman) 42 #3941

Rank methods for combination of independent experiments in multivariate analysis of variance. I. Two treatment multiresponse case. *Essays in Probability and Statistics, pp.* 631-654. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (G. E. Noether) 42 #1291

On the distribution of the one-sample rank order statistics. With discussion by Václav Dupač. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969*), pp.* 53-74. *Cambridge Univ. Press, London,* 1970. (H. Teicher) 44 #3443

On the robust-efficiency of the combination of independent nonparametric tests. *Ann. Inst. Statist. Math.* 22 (1970), 277-280. (I. R. Savage) 44 #1162

Nonparametric inference in n replicated 2^m factorial experiments. *Ann. Inst. Statist. Math.* 22 (1970), 281-294. (I. R. Savage) 43 #5666

(with Puri, Madan Lal) Asymptotic theory of likelihood ratio and rank order tests in some multivariate linear models. *Ann. Math. Statist.* 41 (1970), 87-100. (G. Roussas) 41 #1151

On some convergence properties of one-sample rank order statistics. *Ann. Math. Statist.* 41 (1970), 2140-2143. 42 #2614

A note on order statistics for heterogeneous distributions. *Ann. Math. Statist.* 41 (1970), 2137-2139. 42 #2613

Asymptotic distribution of a class of multivariate rank order statistics. *Calcutta Statist. Assco. Bull.* 19 (1970), 23-31. (R. E. Barlow) 42 #3896

(with Ghosh, Malay) On bounded length sequential confidence intervals based on one-sample rank order statistics. *Ann. Math. Statist.* 42 (1971), 189-203. (D. Siegmund) 43 #5660

Asymptotic efficiency of a class of aligned rank order tests for multiresponse experiments in some incomplete block designs. *Ann. Math. Statist.* 42 (1971), 1104-1112. 43 #4170

Robust statistical procedures in problems of linear regression with special reference to quantitative bio-assays. I. (French summary) *Rev. Inst. Internat. Statist.* 39 (1971), 21-38. 43 #1377

Sen, Prasenjit

(with Srivastava, S. S.; Kumar, Santosh; Garg, R. C.) Generalized travelling salesman problem through n sets of nodes. *CORS J.* 7 (1969), 97-10. (Authors' summary) 39 #5130

Sen, Rabindra Nath

(with Mittra, S. S.) On a sequence of conformal Riemannian spaces. *Bull. Calcutta Math. Soc.* 54 (1962), 107-121. (F. Brickell) 29 #6447

Associate tensors and affine connections. *J. Indian Math. Soc. (N.S.)* 27 (1963), 45-56. (Y. Tashiro) 29 #2742

On new theories of space in general relativity. *Bull. Calcutta Math. Soc.* 56 (1964), 1-14. (A. H. Klotz) 32 #3800

Sir Asutosh Mookerjee. *Bull. Calcutta Math. Soc.* 56 (1964), 49-62. (Editors) 33 #3877

On new theories of space in the unified field theory. *Bull. Calcutta Math. Soc.* 56 (1964), 147-162. (K. Yano) 33 #5354

Conformally euclidean space of class one. *Indian J. Math.* 6 (1964), 93-103. (F. Brickell) 31 #3977

On an algebraic system of Riemannian spaces. *J. Indian Math. Soc. (N.S.)* 29 (1965), 169-185. (A. G. Walker) 34 #3490

On the approximate solutions of linear equations in the l_2-space. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 245-252. (T. Ando (Zbl 136, 119)) 36 #3497

Generalisation of Clifford's parallelisms. *Tensor (N.S.)* 16 (1965), 230-242. (F. Brickell) 31 #6189

On a characterisation of conformally-flat Riemannian spaces of class one. *J. Austral. Math. Soc.* 6 (1966), 172-178. (K. Takano) 34 #8341

A modification of the Newton-Kantorovitch method. *Mathematica (Cluj)* 8(31) (1966), 155-161. (B. N. Parlett) 35 #1211

On conformally-flat Riemannian space of class one. *Proc. Amer. Math. Soc.* 17 (1966), 880-883. (N. J. Hicks) 34 #753

(with Barua, Bandana) On orthogonal ennuples in a pair of Riemannian spaces. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 210-222. (T. K. Pan) 40 #6445

Generalised curvature tensors. *Bull. Calcutta Math. Soc.* 59 (1967), 9-17. (Y. Mutô) 40 #4888

Some generalised formulae for curvature tensors in Finsler geometry. *Indian J. Math.* 9 (1967), 211-221. (A. Rapcsák) 38 #2717

(with Chaki, M. C.) On curvature restrictions of a certain kind of conformally-flat Riemannian space of class one. *Proc. Nat. Inst. Sci. India Part A* 33 (1967), 100-102. (N. J. Hicks) 38 #633

Application of an algebraic system in Finsler geometry. *Tensor (N.S.)* 18 (1967), 191-195. (E. T. Davies) 36 #7093

On curvature tensors in Finsler geometry. *Tensor (N.S.)* 18 (1967), 217-226. (E. T. Davies) 36 #7094

An iterative method of solving linear equations with unbounded invertible operators in a separable Hilbert space. *Mathematica (Cluj)* 10(33) (1968), 171-185. (T. Ando) 38 #2586

Finsler spaces of recurrent curvature. *Tensor (N.S.)* 19 (1968), 291-299. (A. G. Walker) 38 #1645

Correction to a theorem of mine. *Proc. Amer. Math. Soc.* 27 (1971), 341-342. (N. J. Hicks) 42 #3706

Sen, Shankar

(with Tate, John) Ramification groups of local fields. *J. Indian Math. Soc. (N.S.)* 27 (1963), 197-202 (1964). (E. Weiss) 34 #1303

On automorphisms of local fields. *Ann. of Math.* (2) 90 (1969), 33-46. (C. F. Moppert) 39 #5531

Šèn, Sun'hè. See Sun Ho-sheng.

Sen, Syamal Kumar

On an automatic computation of characteristic roots of a matrix. *J. Indian Inst. Sci.* 50 (1968), 210-219a. (Author's summary) 38 #1822

On generalised Simpson's rule with end corrections. *J. Indian Inst. Sci.* 52 (1970), 63-68. 43 #1429

The RL algorithm for finding eigenvalues of a matrix. *J. Indian Inst. Sci.* 52 (1970), 105-111. (M. Lotkin) 43 #4234

Senator, K.

Completely elliptic boundary conditions of Dirichlet type. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 569-574. (R. Beals) 37 #6604

Senatorov, P. K.

The stability of the solution of the Dirichlet problem for an elliptic equation under a perturbation in measure of its coefficients. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1725-1726. (J. F. Heyda) 44 #612

Coefficient stability of the solutions of second order ordinary differential equations and of parabolic equations on the plane. (Russian) *Differencial'nye Uravnenija* 7 (1971), 754-758. (A. Corduneanu) 44 #1863

The coefficient stability of the solution of the Dirichlet problem for the equation $\operatorname{div}\{k(x) \operatorname{grad} u\} = -f(x)$. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1869-1875. (A. Corduneanu) 44 #4406

Senčenko, D. V.

Unique determination of Markov processes with a finite number of states. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 30-42. (J. L. Doob) 34 #8492

The characteristics of inhomogeneous Markov processes with a finite number of states. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 548-555. (G. E. Denzel) 39 #1020

Sen'čenko, R. P.

(with Kuznecov, Ju. K.; Černeckiĭ, V. I.) An algorithm for the problem of determining optimal parameters for control systems by the gradient method. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 2, 93-101. (E. Polak) 31 #1145

Senčuk, Ju. F.

(with Glazman, I. M.) Minimization of quasi-quadratic functionals in Hilbert space. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR* 1966, 981-985. (George Biriuk) 33 #4729

(with Glazman, I. M.) A direct method for minimization of certain functionals of the calculus of variations. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 2 (1966), 7-20. (Z. Poracká) 34 #2144

(with Glazman, I. M.) Minimization of quasi-quadratic functionals in a Hilbert space. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 26-41. (Z. Poracká) 35 #3497

Šenderov, E. I.

Sound diffraction by slits in a plate of finite thickness. *Akust. Ž.* 10 (1964), 359-367 *(Russian); translated as Soviet Physics Acoust.* 10 (1964), 305-311. (C. Yeh) 31 #5429

Senderov, V. A.

(with Iohvidov, I. S.) The boundedness of J-semiunitary operators in Banach spaces with a J-metric. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 4 (18), 166-170. (D. A. Herrero) 43 #7941

Operators that are absolutely indefinitely bounded from below in spaces with indefinite metric. (Russian) *Mat. Zametki* 10 (1971), 301-305. (B. V. Loginov) 44 #4548

Sendler, Wolfgang

Einige maßtheoretische Sätze bei der Behandlung trennscharfer Tests. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 183-196. (S. Kullback) 44 #4798

Sendov, Blagovest

(with Martinov, Nikola) Graphs with the completion operation. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 1 *Math.* 56 (1961/62), 127-138 (1963). (A. Rosa) 34 #1229

(with Dimitrov, Emanuil; Spiridonov, V.) Axiomatics and automatic control of block designs. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 1 *Math.* 56 (1961/62), 185-190 (1963). (P. Constantinescu) 30 #731

On best approximation with algebraic polynomials relative to Hausdorff distance. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 1 *Math.* 56 (1961/62), 195-207 (1963). (L. de Branges) 29 #2579

(with Skordev, D.) On equations in words. (Russian. German summary) *Z. Math. Logik Grundlagen Math.* 7 (1961), 289-297. (Authors' summary) 31 #57

(with Martinov, Nikola) On graphs with an additional operation. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 57 (1962/63), 291-305 (1964). (Authors' summary) 32 #7449

Linear methods of approximation for a periodic function with respect to a Hausdorff metric. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 58 (1964/64), 107-140 (1965). (J. Albrycht) 32 #6123

Approximation bezüglich einer Hausdorffschen Metrik mittels algebraischer Polynome. *Wiss. Z. Techn. Univ. Dresden* 12 (1963), 121-122. (G. Meinardus) 29 #1474

On best approximation with respect to the Hausdorff metric. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Math.* 59 (1964/65), 85-103 (1966). (Author's summary) 33 #6232

(with Penkov, B.) Entropy of the set of continuous functions of several variables. (Russian) *C. R. Acad. Bulgare Sci.* 17 (1964), 335-337. (G. G. Lorentz) 29 #5038

(with Penkov, B.) On widths of the space of continuous functions. *C. R. Acad. Bulgare Sci.* 17 (1964), 689-691. (Á. Császár) 29 #6299

(with Freud, G.) A method of approximation of periodic functions by trigonometric polynomials. (Russian. German summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 491-494 (1965). (Authors' summary) 32 #8024

The approximations of plane point sets by polynomial curves. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Math.* 60 (1965/66), 211-222 (1967). (M. Tomić) 37 #655

The convergence of a sequence of positive linear operators. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Math.* 60 (1965/66), 279-296 (1967). (Author's summary) 37 #666

Linear methods of approximating periodic functions relative to a metric of Hausdorff type. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1023-1025. (Á. Császár) 30 #5115

An estimate for the approximation of functions by S. N. Bernstein polynomials. (Russian) *Mathematica (Cluj)* 7(30) (1965), 145-154. (Jaroslav Fuka) 34 #540

(with Iliev, L.) Orthogonale Systeme in einigen Klassen von Polynomenfolgen. *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 517-519. (A. Magnus) 34 #392

(with Markov, Svetoslav) The numerical computation of a certain class of polynomials of best approximation. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Math.* 61 (1966/67), 17-27 (1968). (M. Tomić) 39 #5041

Fejér interpolation process. (Bulgarian. Russian and German summaries) *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966), 133-145. (M. Tomić) 35 #5819

(with Popov, V.) On certain properties of the Hausdorff metric. (Russian) *Mathematica (Cluj)* 8(31) (1966), 163-172. (D. W. Solomon) 36 #1591

(with Penkov, B.) Hausdorffsche Metrik und Approximationen. *Numer. Math.* 9 (1966), 214-226. (J. S. Shipman) 34 #4762

On the theorems of P. P. Korovkin for convergence of sequences of linear positive operators. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 518-520. (S. Rolewicz) 37 #3254

Approximation by step-functions relative to Hausdorff distance. (Russian) *Mat. Zametki* 2 (1967), 61-70. (J. S. Shipman) 36 #3030

Approximation with respect to the Hausdorff distance. (Russian) *Mat. Zametki* 3 (1968), 481-494. (J. Szabados) 37 #1850

(with Popov, V.) The convergence of the derivatives of positive linear operators. (Russian) *C. R. Acad. Bulgare Sci.* 22 (1969), 507-509. (S. Rolewicz) 40 #4644

Certain questions in the theory of approximations of functions and sets in the Hausdorff metric. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 5 (149), 141-178. (A. B. Németh) 43 #2390

Approximation relative to Hausdorff distance. *Approximation Theory (Proc. Sympos., Lancaster,* 1969*), pp.* 101-108. *Academic Press, London,* 1970. (O. Shisha) 42 #8141

(with Popov, V. A.) The approximation by spline functions. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 755-758. (C. de Boor) 43 #7828

(with Popov, V. A.) The classes that are characterizable by the best approximation by spline functions. (Russian) *Mat. Zametki* 8 (1970), 137-148. (M. Zerner) 43 #5224

Senechalle, David Albert

A characterization of inner product spaces. *Proc. Amer. Math. Soc.* 19 (1968), 1306-1312. (J. A. R. Holbrook) 39 #761

Euclidean and non-Euclidean norms in a plane. *Illinois J. Math.* 15 (1971), 281-289. (V. Zizler) 43 #6709

Senechalle, Lester J.

Iteration of triangular matrices. *Math. Comp.* 18 (1964), 651-653. (J. M. Bennett) 30 #702

Senechalle, Marjorie

A summation formula and an identity for a class of Dirichlet series. *Acta Arith.* 11 (1966), 443-449. (S. Knapowski) 34 #155

Seneor, Roland

(with Minnaert, Pierre) Unitarity and analyticity for a sixth-order diagram. *Phys. Rev.* (2) 140 (1965), B422-B431. (F. R. Halpern) 32 #8770

(with Lévy-Nahas, Monique) First order deformations of Lie algebra representations, $E(3)$ and Poincaré examples. *Comm. Math. Phys.* 9 (1968), 242-266. (R. Keown) 38 #4106

A generalization of Dyson's formula. *Comm. Math. Phys.* 11 (1968/69), 233-256. (S. Aramaki) 39 #5106

(with Chakrabarti, Amitabha; Lévy-Nahas, Monique) "Lorentz basis" of the Poincaré group. *J. Mathematical Phys.* 9 (1968), 1274-1283. (H. M. Goldberg) 38 #901

Seneta, E.
(with Darroch, J. N.) On quasi-stationary distributions in absorbing discrete-time finite Markov chains. *J. Appl. Probability* 2 (1965), 88-100. (R. Getoor) 31 #4083
Quasi-stationary behaviour in the random walk with continuous time. *Austral. J. Statist.* 8 (1966), 92-98. (J. N. Darroch) 34 #8497
(with Heathcote, C. R.) Inequalities for branching processes. *J. Appl. Probability* 3 (1966), 261-267. (K. Dietz) 33 #787 (E)
(with Vere-Jones, D.) On quasi-stationary distributions in discrete-time Markov chains with a denumerable infinity of states. *J. Appl. Probability* 3 (1966), 403-434. (Petr Mandl) 34 #6863
Quasi-stationary distributions and time-reversion in genetics. (With discussion) *J. Roy. Statist. Soc. Ser. B* 28 (1966), 253-277. (D. G. Kendall) 34 #2065
On imbedding discrete chains in continuous time. *Austral. J. Statist.* 9 (1967), 1-7. (J. G. Mauldon) 37 #7004
On the maxima of absorbing Markov chains. *Austral. J. Statist.* 9 (1967), 93-102. (Z. Šidák) 37 #7005
(with Darroch, J. N.) On quasi-stationary distributions in absorbing continuous-time finite Markov chains. *J. Appl. Probability* 4 (1967), 192-196. (W. E. Pruitt) 35 #3731
(with Heathcote, C. R.) Correction: "Inequalities for branching processes". *J. Appl. Probability* 4 (1967), 215. (K. Dietz) 34 #6867
The Galton-Watson process with mean one. *J. Appl. Probability* 4 (1967), 489-495. (F. L. Spitzer) 37 #3659
On the transient behaviour of a Poisson branching process. *J. Austral. Math. Soc.* 7 (1967), 465-480. (R. G. Stanton) 36 #3422
Finite approximations to infinite non-negative matrices. *Proc. Cambridge Philos. Soc.* 63 (1967), 983-992. (Petr Mandl) 36 #963
(with Heathcote, C. R.; Vere-Jones, D.) A refinement of two theorems in the theory of branching processes. (Russian summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 341-346. (K. Dietz) 36 #978
On recent theorems concerning the supercritical Galton-Watson process. *Ann. Math. Statist.* 39 (1968), 2098-2102. (J. H. B. Kemperman) 38 #2847
On a certain passage-time property of inhomogeneous random walks. *Ann. Soc. Sci. Bruxelles Sér. I* 82 (1968), 5-12. (S. G. Mohanty) 38 #779
The principles of truncations in applied probability. *Comment. Math. Univ. Carolinae* 9 (1968), 237-242. (Petr Mandl) 38 #3943
On asymptotic properties of sub-critical branching processes. *J. Austral. Math. Soc.* 8 (1968), 671-682. (K. Dietz) 38 #6679
The stationary distribution of a branching process allowing immigration: A remark on the critical case. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 176-179. (Petr Mandl) 37 #4888
Finite approximations to infinite non-negative matrices. II. Refinements and applications. *Proc. Cambridge Philos. Soc.* 64 (1968), 465-470. (Petr Mandl) 36 #6970
(with Vere-Jones, D.) On the asymptotic behaviour of sub-critical branching processes with continuous state space. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 212-225. (H. Kesten) 39 #1024
Functional equations and the Galton-Watson process. *Advances in Appl. Probability* 1 (1969), 1-42. (P. E. Ney) 40 #2167
(with Vere-Jones, D.) On a problem of M. Jiřina concerning continuous state branching processes. *Czechoslovak Math. J.* 19(94) (1969), 277-283. (H. Kesten) 39 #7683
On Koenigs' ratios for iterates of real functions. *J. Austral. Math. Soc.* 10 (1969), 207-213. (A. Smajdor) 40 #3101
Some second-order properties of the Galton-Watson extinction time distribution. *Sankhyā Ser. A* 31 (1969), 75-78. (D. S. Adorno) 41 #2786
(See also Romanovskiĭ, V. I., 42 #1219)
On invariant measures for simple branching processes (summary). *Bull. Austral. Math. Soc.* 2 (1970), 359-362. (R. Fischler) 41 #7774
On invariant measures for simple branching processes. *J. Appl. Probability* 8 (1971), 43-51. (E. Çinlar) 44 #6056
An explicit-limit theorem for the critical Galton-Watson process with immigration. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 149-152. (Author's summary) 42 #1227
A note on the supercritical Galton-Watson process with immigration. *Math. Biosci.* 6 (1970), 305-311. (S. K. Srinivasan) 42 #3871
On the supercritical Galton-Watson process with immigration. *Math. Biosci.* 7 (1970), 9-14. (Author's summary) 42 #5348
(with Bojanic, R.) Slowly varying functions and asymptotic relations. *J. Math. Anal. App.* 34 (1971), 302-315. (Y. L. Luke) 43 #438

Senez, John Albert
(with Howland, James Lucien) A constructive method for the solution of the stability problem. *Numer. Math.* 16 (1970/71), 1-7. (Authors' summary) 42 #8673

Senft, James R.
(with Goetz, A.) On the structure of normal subdirect powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 747-750. (G. Grätzer) 38 #5687
On weak automorphisms of universal algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 115-118. (S. Fajtlowicz) 41 #8325
On weak automorphisms of universal algebras. *Dissertationes Math. Rozprawy Mat.* 74 (1970), 35 pp. (A. Goetz) 43 #142

Senge, H. G.
Closed sets of algebraic numbers. *Duke Math. J.* 34 (1967), 307-323. (E. Inaba) 36 #6358

Šengelaja, A. M.
(with Trojanovskiĭ, I. E.) On the question of solving the integral equations of heredity theory with non-difference kernels. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 61 (1971), 549-552. (A. Corduneanu) 44 #2000

Šengelija, Z. I.
The gradients of weakly continuous functionals. (Georgian. Russian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 64 (1971), 25-27. (I. Kiguradze) 44 #7290

Sengers, J. V.
Density expansion of the viscosity of a moderately dense gas. *Phys. Rev. Lett.* 15 (1965), 515-517. (J. R. Dorfman) 32 #2142

Sengoku, Shin-ichi
(with Ishiketa, Tadashi) Numerical approach of eigenvalue problem of Helmholtz's differential equation by utilizing Green function. *Information Processing in Japan* 8 (1968), 82-88. (R. S. Varga) 40 #8244

Šen Gu. See Kung Sheng.

Sengupta, Jati K.
(with Tintner, Gerhard; Millham, Charles) A weak duality theorem for stochastic linear programming. (German summary) *Unternehmensforschung* 7 (1963), 1-8. (H. F. Karreman) 32 #1009
(with Millham, C.; Tintner, G.) On the stability of solutions under error in stochastic linear programming. *Metrika* 9 (1965), 47-60. 32 #5373
The stability of truncated solutions of stochastic linear programming. *Econometrica* 34 (1966), 77-104. (B. Bereanu) 33 #7118
Recursive constraints and stochastic linear programming. *Metrika* 10 (1966), 6-12. (K. Ritter) 33 #7119
(with Tintner, G.) On the stability of solutions under recursive programming. *Unternehmensforschung* 10 (1966), 1-14. (Authors' summary) 32 #5374
(See also Economic models, estimation and risk programming, 40 #2336)
Distribution problems in stochastic and chance-constrained programming. *Economic Models, Estimation and Risk Programming (Essays in Honor of Gerhard Tintner), pp. 391-424. Springer, Berlin,* 1969. (Author's summary) 40 #2348
* (with Fox, Karl A.) Economic analysis and operations research: Optimization techniques in quantitative economic models. Studies in Mathematical and Managerial Economics, Vol. 10. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Inc., New York,* 1969. xv + 478 pp. (I. M. Stancu-Minasian) 42 #5614
(with Sanyal, B. C.) A fractile programming approach with extreme sample estimates of parameters. *Statistica Neerlandica* 24 (1970), 51-59. (J. Kiefer) 42 #1513

Sengupta, N. D.
On tensors which are functions of vectors. *Ann. Mat. Pura Appl.* (4) 68 (1965), 45-50. (B. K. Dutta) 32 #1628
On the invariance properties of the Dirac equation. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 1181-1216. (Roland Good, Jr.) 32 #8721
Exact solutions of the relativistic equation of motion of electron for a class of electromagnetic fields (classical and wave-mechanical). *Satyendranath Bose 70th Birthday Commemoration Volume, Part II, pp. 55-64. Prof. S. N. Bose 70th Birthday Celebration Committee, Calcutta,* 1966. (A. H. Taub) 35 #2611
On the motion of a charged particle in a magnetic field. (Italian summary) *Nuovo Cimento B* (10) 42 (1966), 121-149. (Author's summary) 33 #972

Sengupta, Pran Ranjan
Note on displacements and stresses in a cantilever containing a circular rigid inclusion. *Indian J. Mech. Math.* 2 (1964), 56-60. (Author's summary) 30 #1662

Sengupta, R.
(with Ghosh, R.) The gravitation of a cylindrically symmetric magnetic field. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1579-1587. (R. K. Sachs) 33 #1132

Sen Gupta, S.
(with Datta Majumdar, S.) Schrödinger's equation for a system of particles. *J. Phys. Soc. Japan* 20 (1965), 428-431. (A. Dalgarno) 32 #3675

Sengupta, S. Sankar
(with Satyamurty, P. R.) Some examples in measure-theoretic representation of random variables. *Studia Sci. Math. Hungar.* 2 (1967), 355-361. (Simeon M. Berman) 36 #3387

(with Czarny, P.; Chow, Ray) A representation theorem for finite Markov chains whose states are subintervals of [0,1]. *Information Sci.* 3 (1971), 51-58. (A. Fuchs) 43 #5618

Sen Gupta, Sachi Bhusan

(with Bose Majumder, N. C.) Distance and ratio sets of some linear sets under certain transformations. *Bull. Calcutta Math. Soc.* 59 (1967), 27-30. (B. K. Lahiri) 40 #5815

On the distance and ratio sets of some non-measurable sets. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 175-179. (K. C. Ray (Zbl 177, 308)) 43 #452

Senik, P. M.

Controlling oscillatory processes in quasi-linear systems with one degree of freedom. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1964, 1287-1289. (C. Olech) 30 #1881

Program quasi-linear oscillatory processes. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 268-273. (L. Pintér) 29 #2474

Construction of a nearly exact asymptotic solution for a quasi-linear system. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 1258-1262. (Author's summary) 34 #429

(with Senik, S. G.) Construction of a stationary asymptotic solution close to the exact one, for a quasi-linear system. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 1402-1406. 34 #1611

Controlled oscillation processes in nonlinear autonomous systems. (Russian) *Math. Phys.* (1966) *(Russian) pp.* 133-154. *Naukova Dumka, Kiev,* 1966. (Wolfdietrich Müller) 34 #8834

(with Mitropol's'kiĭ, Ju. O.) Asymptotic representations, improved in the mean, for essentially nonlinear systems. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 5, 76-86. (L. Berg) 35 #6928

Averaging in systems with an essential nonlinearity. (Russian) *Mathematical Physics, No.* 4 (1968) *(Russian), pp.* 176-185. *Naukova Dumka, Kiev,* 1968. (W. S. Loud) 42 #603

The construction of asymptotic solutions close to exact ones in the least squares sense for essentially nonlinear systems. (Russian) *Mathematical Physics, No.* 4 (1968) *(Russian), pp.* 160-175. *Naukova Dumka, Kiev,* 1968. (D. Izjumova) 43 #2303

Ateb-functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968. 23-27. (S. Fempl) 37 #3057

Construction of asymptotic, improved in the mean, quasi-periodic solutions for essentially nonlinear systems. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 5, 685-693. (A. Halanay) 38 #4768

(with Vozniĭ, A. M.) The tabulation of the periodic Ateb-functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 1089-1092, 1150. (Authors' summary) 42 #3312

Inversions of the incomplete beta function. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 325-333. (S. Fempl) 39 #7150

(with Senik, S. G.) An approximation in the mean of the stationary asymptotic solution of a standard system to the exact one. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 894-897, 956. (Authors' summary) 43 #7717

Senik, S. G.

(with Senik, P. M.) Construction of a stationary asymptotic solution close to the exact one, for a quasi-linear system. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 1402-1406. 34 #1611

Periodic solutions for quasi-linear systems. (Ukrainian. Russian and Englsish summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967. 608-612. (Author's summary) 35 #4512

Highest approximations for periodic solutions of quasi-linear systems. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 694-698. (M. Tomić) 36 #1110

Single-frequency asymptotic solutions for quasilinear systems. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 1031-1034. (C. Olech) 37 #1084

(with Senik, P. M.) An approximation in the mean of the stationary asymptotic solution of a standard system to the exact one. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 894-897, 956. (Authors' summary) 43 #7717

Senilov, A. S.

On the theory of pseudocongruences of lines in ${}^1S_4$. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 284 (1968), 113-121. *(errata insert)* 40 #6422

Certain special classes of focal pseudocongruences of lines in ${}^1S_4$ with real central surfaces. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 284 (1968), 123-140. *(errata insert)* 40 #6423

A certain property of the quasifoci of pseudocongruences of lines in ${}^1S_4$. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 361 (1970), 37-40. 43 #5428

Senin, A. G.

A statistical deisgn problem for an object with distributed parameters. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 653-660. (Editors) 29 #3318

Passage of random signals through a linear dynamical system with distributed parameters. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 2, 81-86. (A. Feinstein) 29 #6983

Some questions in the analysis and synthesis of measuring systems for extrapolating a random field. (Russian) *Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk* 1964, *no.* 1, 54-62. (S. Kullback) 29 #1086

A problem on statistical analysis of control systems with distributed parameters. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 103-106. (Author's summary) 30 #2971

Senior, James K.

* The groups of order 2^n $(n \leq 6)$. *The Macmillan Co., New York; Collier-Macmillan, Ltd., London,* 1964. 225 *pp.* (Michael Rosen) 29 #5889

Senior, T. B. A.

(with Darling, D. A.) Low-frequency expansions for scattering by separable and nonseparable bodies. *J. Acoust. Soc. Amer.* 37 (1965), 228-234. (Authors' summary) 30 #2818

Control of the acoustic scattering characteristics of a rigid sphere by surface loading. *J. Acoust. Soc. Amer.* 37 (1965), 464-475. (Author's summary) 30 #2801

Senitzky, I. R.

Dissipation in quantum mechanics. Two-level system. III. *Phys. Rev.* (2) 137 (1965), A1635-A1643. (From the author's summary) 32 #7077

Further discussion of a fundamental theorem in quantum optics. *Phys. Rev. Lett.* 16 (1966), 619-622. (Dennis Holliday) 33 #5238

Sen'kin, E. P.

The change of spatial form of a convex surface depending on a change of its metric. (Russian) *Ukrain. Geometr. Sb. Vyp.* 1 (1965), 95-97. (W. J. Firey) 35 #3614

A property of an infinitesimal bending of a general convex surface with a boundary. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 86-87. (Z. Nádeník) 35 #3615

Stability of the width of a general closed convex surface depending on the change of the integral mean curvature. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 88-89. (Z. Nádeník) 35 #3551a

Stability of the width of a general closed convex surface depending on the change of the integral mean curvature. II. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 93-94. (Z. Nádeník) 35 #3551b

A property of isometries of a convex surface into a space of higher dimension. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 95. (Z. Nádeník) 35 #3616

(with Blank, Ja. P.) Survey of works in geometry in the Ukraine during the past fifty years (1917-1967). (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 3-9. 43 #3075

An *n*-dimensional analogue of S. P. Olovjanišnikov's theorem. (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 147-149. (H. W. Guggenheimer) 43 #5466

Sennott, Linnea I.

(with Alò, Richard A.; Shapiro, Harvey L.) *P*- and *z*-embedded subspaces. *Math. Ann.* 188 (1970), 13-22. (V. J. Mancuso) 42 #1062

(with Alò, Richard A.) Extending linear space-valued functions. *Math. Ann.* 191 (1971), 79-86. (S. A. Naimpally) 43 #6877

Šen' Se-čan. See Shen Hsieh-ch'ang.

Sensenig, Chester B.

Instability of thick elastic solids. *Comm. Pure Appl. Math.* 17 (1964), 451-491. (A. E. Green) 29 #6702

Non-linear theory for the deformation of pre-stressed circular plates and rings. *Comm. Pure Appl. Math.* 18 (1965), 147-161. (A. E. Green) 30 #5565

Šenšev, A. N.

A convergent interpolation process. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 150-152. (Carl de Boor) 34 #1759

A theorem on measurable functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 110-112. (B. Dushnik) 35 #4350

Sentenac, J.

* (with Broise, P.; Huard, P.) Décomposition des programmes mathématiques. Monographies de Recherche Opérationnelle, No. 6. *Dunod, Paris,* 1968. x + 114 *pp.* (A. C. Williams) 37 #3838

Senter, Harvey

(with Epstein, Bernard) The three-dimensional Dirichlet problem associated with a plane lamina. *J. Math. and Phys.* 46 (1967), 425-439. (G. Schober) 38 #1279

Sentilles, F. Dennis

Kernel representations of operators and their adjoints. *Pacific J. Math.* 23 (1967), 153-162. (B. Walsh) 35 #7147

Compactness and convergence in the space of measures. *Illinois J. Math.* 13 (1969), 761-768. (B. Walsh) 40 #713

Compact and weakly compact operators on $C(S)_{\beta}$. *Illinois J. Math.* 13 (1969), 769-776. (B. Walsh) 40 #714

Existence of regular finite invariant measures for Markov processes. *Proc. Amer. Math. Soc.* 21 (1969), 318-320. (S. J. Taylor) 39 #3594

(with Taylor, Donald Curtis) Factorization in Banach algebras and the general strict topology. *Trans. Amer. Math. Soc.* 142 (1969), 141-152. (J. D. Pryce) 40 #703

Conditions for equality of the Mackey and strict topologies. *Bull. Amer. Math. Soc.* 76 (1970), 107-112. (I. Namioka) 40 #7768

The strict topology on bounded sets. *Pacific J. Math.* 34 (1970), 529-540. (J. D. Pryce) 42 #8283

Sentis, Philippe

(with Fourgeaud, C.; Lenclud, B.) Critère de choix en avenir partiellement incertain. *Rev. Française Informat. Recherche Opérationnelle* 2 (1968), *no.* 14, 9-19. (Authors' summary) 39 #5148

Seo, Tae Kun

(with Beidleman, J. C.) Generalized Frattini subgroups of finite groups. *Pacific J. Math.* 23 (1967), 441-450. (B. Chang) 36 #6508

(with Whaples, G.) A generalization of global class field theory. *Canad. J. Math.* 21 (1969), 609-614. (H. Yokoi) 39 #2725

Šepelenko, L. M.

Projective deformation of stratifiable families of Korovin-Geĭdel'man planes. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 32-35. (B. M. Schein (Šaĭn)) 36 #4457

Šepeljavyĭ, A. I.

The qualitative study of stability in the large and instability for a certain class of amplitude-impulse systems. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1044-1047. (P. Brunovsky) 41 #7319

Šeper, Kajetan

Normalization of diagram algorithms. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 1(21) (1966), 5-16. (J. Florentin) 35 #59

A decision problem concerning autoduality in k-valued logic. *Z. Math. Logik Grundlagen Math.* 17 (1971), 251-255. (A. Rose) 44 #6450

Šepilov, M. A.

Certain problems of linear programming. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 3, 32-38. (B. Bereanu) 43 #7205

Seppä, Ilari

(with Nordén, Harry V.) A problem on heat conduction in a wire enclosed by a cylindrical material solved by numerical inverse Laplace transform. *Nordisk Tidskr. Informations-Behandling* 4 (1964), 224-242. (J. F. Clarke) 30 #3692

Seppälä, Veikko

Zur Theorie der Biegung eines Stabes nach erlittenem Bruch und vor dem endgültigen Kollaps. *Ann. Acad. Sci. Fenn. Ser. A VI No.* 174 (1965), 33 *pp.* 33 #3517

Seppälä, Yrjö

Translating statements of symbolic logic into zero-one linear programming. *Nordisk Tidskr. Informationsbehandling (BIT)* 8 (1968), 310-327. 39 #1208

Serb, Ioan

On a property of polynomials. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 1031-1035. (Author's summary) 41 #1953

Şerban, E.

A determination of the triharmonic operator. (Romanian. English, French, German and Russian summaries) *Lucrăr. Şti. Inst. Politehn. Braşov* 7 (1965), 35-41. (A. A. Armendáriz) 33 #6859

Serbin, A. I.

A boundary-value problem on a finite Riemann surface. (Russian) *Boundary-value problems in the theory of functions of a complex variable, pp.* 25-39. *Izdat. Kazan. Univ., Kazan,* 1962. 29 #6035

A generalized Riemann boundary value problem on a finite Riemann surface. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 10, 86-94 (1964). (R. A. Kordzadze) 37 #3016

A general boundary value problem on a finite Riemann surface. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 10, 95-105 (1964). (D. Pascali) 36 #5339

The Riemann boundary-value problem for generalized analytic functions on a closed Riemann surface. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 131-143. (A. J. Lohwater) 35 #1793

The functions that are representable by the Martinelli-Bochner integral. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 1276-1279. (E. J. Akutowicz) 43 #3483

Šerbina, G. V.

Laminar flow of a viscous fluid in a channel with porous walls. (Russian) *Približ. Metod. Rešen. Differencial'. Uravnen. Vyp.* 2 (1964), 162-175. (Şt. I. Gheorghiţă) 32 #6793

Serbo, V. G.

(with Ginzburg, I. F.) Asymptotics of Feynman graphs in spinor theory. *Jadernaja Fiz.* 9 (1969), 868-874 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 507-510. (Authors' summary) 40 #5478

Serdjukova, S. I.

A study of stability in C of explicit difference schemes with constant real coefficients which are stable in l_2. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 365-370. (B. Frank Jones, Jr.) 29 #2990

Uniform stability with respect to the initial data of a six-point symmetric scheme for the heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.*, 212-216. (M. L. Juncosa) 31 #5353

Stability in C of linear difference schemes with constant real coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 477-486. (T. I. Seidman) 34 #5329

A necessary and sufficient condition for stability in the uniform metric of systems of difference equations. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 526-528. (T. I. Seidman) 36 #4845

Uniform stability of a six-point scheme of higher order accuracy for the heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 214-218. (T. I. Seidman) 35 #1229

On stability in the uniform metric of systems of difference equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 497-509. (I. M. Sheffer) 35 #7023

The unconditional uniform stability of a certain difference scheme for the equation $u_t + u_x = 0$. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 88-98. (B. A. Bondarenko) 42 #2701

The oscillations that arise in numerical calculations of the discontinuous solutions of differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 411-424. (V. Thomée) 44 #1248

Serdült, Ildiko

(with Gabriel, Viorica) Generalization of the method of Schulz for calculating the inverse of a matrix. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 969-979. (Authors' summary) 41 #2904

Serebriakova, N. N. See Serebrjakova, N. N.

Serebrjakov, Ju. N.

(with Voskresenskiĭ, G. V.; Avdeev, E. V.) The use of "convolution type" orthogonality in solving certain boundary value problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 721-724. (G. F. Miller) 40 #6798

Serebrjakov, V. V.

(with Lukin, L. P.) Solution of a system of non-linear singular integral equations. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1422-1424. (M. Blažek) 30 #854

(with Širkov, D. V.) Dispersion theory of low energy scattering. *Fortschr. Physik* 13 (1965), 227-276. (A. C. T. Wu) 32 #2076

Serebrjakova, N. N.

On periodic solutions of dynamic, second order, nearly piecewise analytic systems. *Prikl. Mat. Meh.* 31 (1967), 1108-1110 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 1112-1114 (1968). (J. E. Marsden) 37 #6546

Periodic solutions of second order dynamic systems close to piece-wise Hamiltonian systems. *Prikl. Mat. Meh.* 33 (1969), 912-915 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 890-893 (1970). (J. O. C. Ezeilo) 42 #2091

Serebrjakova, V. S.

A bound for the region of existence of periodic solutions of a certain fourth-order non-linear system. (Russian) *Ural. Politehn. Inst. Sb.* 139 (1964), 12-17. (W. A. Coppel) 32 #2692

On circular motions of n-tuple pendula. (Russian) *Ural. Politehn. Inst. Sb.* 139 (1964), 96-100. (F. Freudenstein) 32 #4910

Circular motions of linked Froude pendulums. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 122-125. (F. Freudenstein) 32 #4911

Conditions for the existence of circular motions of Froude's connected pendulums. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2047-2052. (K. Magnus) 36 #7368

Serebrjanyĭ, A. I.

Location for optimal programming of an instruction that follows an instruction with random execution time. *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1131-1134. (R. N. Goss) 31 #907

On events representable in finite automata. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 2 (122), 203-206. (A. P. Ershov) 33 #7210

Serebrjanyĭ, V. H.

Systems of linear partial differential equations that are invariant with respect to group representations. (Russian) *Dokl. Akad. Nauk BSSR* 15 (1971), 590-593. (V. V. Barkovskiĭ) 44 #5600

Sereda, V. Ju.

(with Kalaĭda, O. F.) A general method for solving linear integral equations of the second kind. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 492-495. (Authors' summary) 35 #2509

(with Bondarenko, P. S.) An estimate of the error of a class of real algorithms for the numerical solution of linear integral equations of the second kind. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 1060-1064. (W. V. Petryshyn) 37 #3792

Finding the eigenfunctions of Fredholm integral equations of order two. (Ukrainian.. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 1079-1083. (Author's summary) 36 #3523

(with Kalaĭda, O. F.) A certain method for solving linear integral equations of the second kind. (Russian) *Differencial'nye Uravnenija* 4 (1968), 938-942. (O. E. Stanaitis) 37 #3289

A generalized method of solution of linear integral equations of the second kind. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 127-131. (L. Finkelstein) 37 #1911

(with Kalaĭda, O. F.) A certain method for solving second order linear integral equations. (Russian) *Ukrain Mat. Ž.* 20 (1968), 257-263. (L. Guggenbuhl) 37 #708

A certain method of finding an estimate of the error of the method of replacing the kernel by a degenerate one in the approximate solution of integral equations. (Russian) *Proc. Sem. Differential and Integral Equations, No. I (Russian), pp.* 335-340. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (S. G. Samko) 42 #6542

A certain method of finding the eigenfunctions of Fredholm integral equations of the second kind with given degree of accuracy. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 53-63. (H. J. Landau) 41 #9463

Seredinskiĭ, V. N.

Vasiliĭ Antonovič Golubev (on his 80th birthday). (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 88 (1971), 141-153. (Editors) 43 #4618

Seregin, L. V.

Conditions for continuity of stochastic processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 6 (1961), 3-30. (Author's summary) 29 #5279

Šeremeta, M. M.

Connection between the growth of a function analytic in a disc and the moduli of the coefficients of its Taylor series. (Ukrainian. Russian summary) *Vīsnik L'vīv. Derž. Univ. Ser. Meh.-Mat.* 1965, *vyp.* 2, 101-110. (K. W. Lucas) 35 #4378

A connection between the growth of a function analytic in a disc and the moduli of the coefficients of its Taylor series. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 729-732. (Author's summary) 33 #4239

Connection between the growth of the maximum of the modulus of an entire function and the moduli of the coefficients of its power series expansion. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 2 (57), 100-108. (J. E. Miller) 36 #1652

The connection between the growth of functions of order zero which are entire or analytic in a disc and their power series coefficients. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 6 (73), 115-121. (R. P. Boas, Jr.) 37 #2997

The power series of entire functions with exceptional values. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 10 (101), 92-100. (I. N. Baker) 44 #2926

Šeremet'ev, M. P.

(with Peleh, B. L.) On the question of principles in the theory of shells. (Ukrainian) *Teoret. Prikl. Mat. Vip.* 2 (1963), 68-86. (A. Sawczuk) 34 #7090

Serenus of Antinoë

* Le livre *De la section du cylindre* et le livre *De la section du cône.* Oeuvres traduites pour la première fois du Grec en Français, avec une introduction et des notes, par Paul Ver Eecke. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1969. xxxviii + 170 *pp.* (Editors) 39 #2578

Seres, Iván

Irreducibility of polynomials. *J. Algebra* 2 (1965), 283-286. (H. Schwerdtfeger) 31 #3409

On the irreducibility of certain polynomials. (Hungarian) *Mat. Lapok* 16 (1965), 1-7. (P. Erdős) 33 #5614

The irreducibility of certain polynomials. (Hungarian. Russian and German summaries) *Mat. Lapok* 17 (1966), 1-5. (P. Erdős) 36 #142

Šeretov, V. G.

On the existence of quasiconformal mappings. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 116-120. (M. F. Walker) 33 #7531

Invariant subspaces in a Teichmüller space. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 156-159. (E. Solomencev (RŽMat 1964 #12 B134)) 36 #6611

Extremal quasiconformal mappings with a restriction on the dilatation. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1060-1063. (F. W. Gehring) 38 #1257

Quasiconformal mappings with locally trivial characteristic. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 223-228. (P. Caraman) 38 #3433

(with Dumkin, V. V.) The Teichmüller problem for a certain class of open Riemann surfaces. (Russian) *Mat. Zametki* 7 (1970), 605-615. (R. Kühnau (Zbl 193, 37)) 42 #3271

Serfling, R. J.

The Wilcoxon two-sample statistic on strongly mixing processes. *Ann. Math. Statist.* 39 (1968), 1202-1209. (D. R. Truaz) 37 #2389

Contributions to central limit theory for dependent variables. *Ann. Math. Statist.* 39 (1968), 1158-1175. (W. Hoeffding) 37 #3637

Approximately optimal stratification. *J. Amer. Statist. Assoc.* 63 (1968), 1298-1309. (W. A. Ericson) 39 #3671

The variance function of the Erlang process. *Ann. Inst. Stiatist. Math.* 22 (1970), 327-337. (J. J. Hunter) 43 #5629

Moment inequalities for the maximum cumulative sum. *Ann. Math. Statist.* 41 (1970), 1227-1234. (W. Hoeffding) 42 #3835

Convergence properties of S_n under moment restrictions. *Ann. Math. Statist.* 41 (1970), 1235-1248. (W. Hoeffding) 42 #3836

(with Korwar, R. M.) On averaging over distinct units in sampling with replacement. *Ann. Math. Statist.* 41 (1970), 2132-2134. 42 #2621

(with Cramér, Harald; Leadbetter, M. R.) On distribution function--moment relationships in a stationary point process. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 1-8. (E. Çinlar) 44 #7633

Serfozo, Richard F.

Random time transformations of semi-Markov processes. *Ann. Math. Statist.* 42 (1971), 176-188. (E. B. Dynkin) 44 #6058

Sergeev, A. S.

A boundary-value problem for non-linear ordinary differential equations of second order. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 16, *vyp.* 3, 35-42 (1958). (W. A. Coppel) 31 #406

Sergeev, Ė. A.

On the quadratic reciprocity law in algebraic fields. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 217-218. (R. Finkelstein) 36 #1416

Fields akin to a cubic field. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 201-202. (V. Kurbatov (RŽMat 1968 #3 A381)) 39 #2734

Sergeev, M. I.

Completely *FN*-factorizable groups. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 532-534. (L. Fuchs) 29 #155

Sergeev, N. P.

On convergence of generalized quadrature formulae. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 917-922. (A. H. Stroud) 33 #1968

Generalized quadrature formulae of highest algebraic accuracy. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 9 (112), 85-93. (J. Kofron) 44 #7752

Sergeev, V. O.

Convergence of the Galerkin method for non-linear ordinary differential equations. (Russian) *Metody Vyčisl.* 2 (1963), 39-44. (B. Kellogg) 32 #3288

On regularization of a class of operators. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 470-475. (Pawel Szeptycki) 33 #3107

Regularization of Volterra equations of the first kind. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 531-534. (C. Avramescu) 43 #6673

Sergeev, V. S.

The periodic solutions of the equations of motion of a heavy rigid body around a fixed point. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 1, 40-51. (S. J. Zaroodny) 43 #1483

Estimates of the domain of convergence of series which represent the periodic solutions of the equations of motion of a rigid body with a fixed point. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 66-70. (S. J. Zaroodny) 43 #1484

Periodic solutions of the equations of motion of a heavy rigid body around a fixed point in a certain case. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 6, 102-108. (B. Dolapčiev) 42 #7114

Sergeeva, L. V.

(with Teterina, N. I.) An investigation of the solution of a stochastic equation with random coefficients. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 3 (1970), 141-154. (D. A. Darling) 43 #8149

(with Teterina, N. I.) Diffusion with stochastic parameters. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 695-696. (L. I. Gal'čuk) 42 #8585

Sergeraert, Francis

Une généralisation du théorème des fonctions implicites de Nash. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A861-A863. (D. R. Arterburn) 41 #4332

(with Herman, Michael) Sur un théorème d'Arnold et Kolmogorov. *C. R. Acad. Sci. Paris Ser. A - B* 273 (1971), A409-A411. (Robert Wells) 44 #7586

Sergescu, Petre

(See Taton, René, 37 #5080; Itard, Jean, 37 #5079; and Bibliographie des publications de Pierre Sergescu, 37 #5069)

Sergienko, I. V.

A method for solving problems of locating extremal values. (Ukrainian. Russian and English summaries) *Avtomatika* 1964, *no.* 5, 15-21. (Author's summary) 30 #3790

On the abstract formulation of a problem of the automation of production. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukrain. RSR* 1965, 177-179. (Author's summary) 30 #4591

On a method of finding extremal solutions for a certain class of problems. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1965, 296-299. (Author's summary) 32 #3864

Sergienko, V. I.

On a factorization criterion for finite groups. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 357-360. (P. Fong) 29 #2291

Non-nilpotent subgroups and their complexes. (Russian) *Finite Groups (Russian), pp.* 141-165. *Nauka i Tehnika, Minsk,* 1966. (E. Schenkman) 33 #4145

Permutability of a *p*-complement with *p*-subgroups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 299-302. (E. Schenkman) 38 #239

The factorization of finite groups. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 400-401. (J. Wiegold) 43 #6304

A criterion for the *p*-solvability for finite groups. (Russian) *Mat. Zametki* 9 (1971), 375-383. (O. H. Kegel) 44 #1731

Sergušov, S. A.

A certain necessary condition for the existence of an odd perfect number. (Russian) *Jaroslav. Gos. Ped. Inst. Učen. Zap. Vyp.* 60 (1968), 101-102. (R. A. Rankin) 42 #7585

Šeriev, V. A.

(with Gorčakov, Ju. M.) Finite groups all of whose non-invariant subgroups are complemented. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1234-1253. (Z. Janko) 32 #7632

Groups with complementable non-invariant subgroups. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 52-53. (S. P. Bandyopadhyay) 34 #7656

Finite 2-groups with complementary non-invariant subgroups. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 195-212. (J. Wiegold) 34 #7635

Groups with complemented non-normal subgroups. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 893-912. (J. Wiegold) 36 #2691

Serikbaev, Š. S.

The determination of cumulative perturbations in certain parametrically perturbed systems. (Russian) *Collection of Sci. Works of Graduates, No. 7: Mathematics, Mechanics, Physics (Russian), pp.* 176-182. *Univ. Družby Narodov, Moscow,* 1970. (M. Ráb) 44 #7074

Serikov, G. N.

A question on optimal processes with retardation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 109-113. (V. Lakshmikantham) 34 #2358

Šerman, D. I.

Solution of the Dirichlet problem for a circular ring and some of its applications in the theory of potential and the theory of elasticity. (Russian) *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963*), Vol. I, Mechanics of Solids (Russian), pp.* 352-399. *Izdat. "Nauka", Moscow,* 1965. (G. Rieder) 33 #6902

On a particular boundary value problem in potential theory. I. (Russian) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1967, *no.* 1, 42-48. (J. Ignaczak) 35 #3071

On a particular boundary value problem in potential theory. II. (Russian) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1967, *no.* 2, 38-48. (J. Ignaczak) 36 #402

A propos of a certain singular integral equation and its applications in certain problems of elasticity theory. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Meh.* 22 (1969), *no.* 3, 3-8. (S. Drobot) 44 #3090

Šermenev, A. M.

The unirationality of certain surfaces. (Russian) *Mat. Zametki* 5 (1969), 155-159. (S. Lichtenbaum) 39 #4157

The motif of a cubic hypersurface. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 515-522. (J. W. S. Cassels) 41 #6855

Sermons, G. Ja.

(with Ustinov, N. N.) On the question of the calculation of the eigenvalues of the Mathieu equation. (Russian. English summary) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1971, *no.*2, 94-98. (T. Čanturija) 44 #4916

Sernagiotto, Franco

(with Cercignani, Carlo) The method of elementary solutions for time-dependent problems in linearized kinetic theory. *Ann. Physics* 30 (1964), 154-167. (J. Tjötta-Naze) 31 #4520

Serov, M. I.

Multiple eigen-values of cyclic boundary value problems. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 10-16. (W. S. Loud) 37 #4316

Numerical estimates of the eigen-values of a second order nonselfadjoint differential operator with periodic coefficients. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 17-33. (J. S. Shipman) 39 #529

Two unsolved problems from Ulam's collection. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 34-37. (B. Dushnik) 37 #2089

Serov, V. V.

(with Laptinskiĭ, V. N.; Gorodeckiĭ, Ju. D.) On the approximate solution of nonlinear integral equations. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 2, 56-60. (V. V. Vasin) 44 #2003

Serpe, J.

Sur l'analogie formelle des équations de Maxwell et des équations de Dirac à masse nulle. *Nuclear Phys.* 57 (1964), 351-355. (Roland Good, Jr.) 32 #2036

Serr, Ž. P. See Serre, Jean-Pierre.

Serra, Elena

Un teorema di tracce sulle varietà coordinate. *Ann. Univ. Ferrara Sez. VII (N.S.)* 12, 89-101 (1967). (J. Peetre) 36 #6928

Teoremi di immersione su iperpiani coordinati per funzioni di un certo spazio funzionale. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 7-32. (J. Friberg) 40 #6255

Serrano, Enrique S.-Palencia. See Sánchez-Palencia, Enrique.

Serre, Jean-Pierre

Modules projectifs et espaces fibrés à fibre vectorielle. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin et C. Pisot,* 1957/58, *Fasc.* 2, *Exposé* 23, 18 *pp., Secrétariat mathématique, Paris,* 1958. (M. M. Pastnikov (RŽMat 1961 7 A290)) 31 #1277

Sur la rationalité des représentations d'Artin. *Ann. of Math.* (2) 72 (1960), 405-420. (O. F. G. Schilling) 30 #2002

Cohomologie galoisienne des groupes algébriques linéaires. *Colloq. Théorie des Groupes Algébriques (Bruxelles,* 1962*), pp.* 53-68. *Librairie Universitaire, Louvain; Gauthier-Villars, Paris,* 1962. (M. J. Greenberg) 32 #4177

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 1: Exposés 1 à 4. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963, dirigé par Michel Demazure et Alexander Grothendieck. Deuxième édition. *Institut des Hautes Études Scientifiques, Paris,* 1963/64. v + 252 *pp. (not consecutively paged)* (Editors) 34 #7517

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 2a: Exposés 5 et 6. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Deuxième édition. *Institut des Hautes Études Scientifiques, Paris,* 1963/65. ii + 180 *pp. (not consecutively paged)* (Editors) 34 #7518

Géometrie algébrique. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 190-196. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #181

Groupes analytiques *p*-adiques. *Séminaire Bourbaki,* 1963/64, *Fasc.* 2, *Exposé* 270, 10 *pp. Secrétariat mathématique, Paris,* 1964. (G. Leger) 31 #1255

* Cohomologie galoisienne. Cours au Collège de France, 1962-1963. Seconde édition. With a contribution by Jean-Louis Verdier. Lecture Notes in Mathematics 5. *Springer-Verlag, Berlin-Heidelberg-New York,* 1964. vii + 212 *pp. (not consecutively paged)* (M. Greenberg) 31 #4785

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 3: Exposés 8 à 11. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Troisième édition. *Institut des Hautes Études Scientifiques, Paris,* 1964. ii + 178 *pp. (not consecutively paged)* (Editors) 34 #7520

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 4: Exposés 12 à 14. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Troisième édition. *Institut des Hautes Études Scientifiques, Paris,* 1964. ii + 171 *pp. (not consecutively paged)* (Editors) 34 #7521

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 5b: Exposés 17 et 18. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Première et deuxième éditions. *Institut des Hautes Etudes Scientifiques, Paris,* 1964/66. ii + 120 *pp. (not consecutively paged)* (Editors) 34 #7523

(see also Grothendieck, A., 36 2619b)

Exemples de variétés projectives conjuguées non homéomorphes. *C. R. Acad. Sci. Paris* 258 (1964), 4194-4196. (R. C. Hartshorne) 29 #3474

(with Borel, A.) Théorèmes de finitude en cohomologie galoisienne. *Comment. Math. Helv.* 39 (1964), 111-164. (T. Ono) 31 #5870

Zeta and L functions. *Arithmetical Algebraic Geometry (Proc. Conf. Purdue Univ., 1963), pp.* 82-92. *Harper & Row, New York*, 1965. (J. W. S. Cassels) 33 #2606

* Cohomologie galoisienne. With a contribution by Jean-Louis Verdier. Lecture Notes in Mathematics, No. 5. Troisième édition, 1965. *Springer-Verlag, Berlin-New York*, 1965. v + 212 *pp. (not consecutively paged)* (Editors) 34 #1328

* Algèbre locale. Multiplicités. Cours au Collège de France, 1957-1958, rédigé par Pierre Gabriel. Seconde édition, 1965. Lecture Notes in Mathematics, 11. *Springer-Verlag, Berlin-New York*, 1965. vii + 188 *pp. (not consecutively paged)* (M. Nagata) 34 #1352

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 2b: Exposés 7a et 7b. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Deuxième édition. *Institut des Hautes Etudes Scientifiques, Paris*, 1965. ii + 160 *pp. (not consecutively paged)* (Editors) 34 #7519

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 6: Exposés 19 à 22. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1964, dirigé par Michel Demazure et Alexander Grothendieck. *Institut des Hautes Études Scientifiques, Paris*, 1965. ii + 261 *pp. (not consecutively paged)* (Editors) 34 #7524

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 7: Exposés 23 à 26. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Première édition. *Institut des Hautes Études Scientifiques, Paris*, 1965/66. ii + 260 *pp. (not consecutively paged)* (Editors) 34 #7525

* Lie algebras and Lie groups. Lectures given at Harvard University, 1964. *W. A. Benjamin, Inc., New York-Amsterdam*, 1965. vi + 247 *pp. (not consecutively paged)* (Editors) 36 #1582

Classification des variétés analytiques p-adiques compactes. *Topology* 3 (1965), 409-412. (T. Ono) 31 #3421

Sur la dimension cohomologique des groupes profinis. *Topology* 3 (1965), 413-420. (M. Rosen) 31 #4853

Zeta-functions and L-functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 19-26. (J. W. S. Cassels) 32 #7520

* (with Borel, A.; Chowla, S.; Herz, C. S.; Iwasawa, K.) Seminar on complex multiplication. Seminar held at the Institute for Advanced Study, Princeton, N. J., 1957-58. Lecture Notes in Mathematics, No. 21. *Springer-Verlag, Berlin-New York*, 1966. ii + 102 *pp. (not consecutively paged)* (Editors) 34 #1278

* (with Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.) Schémas en groupes. Fasc. 5a: Exposés 15 et 16. Séminaire de Géométrie Algébrique de l'Institut des Hautes Études Scientifiques, 1963/64, dirigé par Michel Demazure et Alexander Grothendieck. Première édition. *Institut des Hautes Études Scientifiques, Paris* 1966. ii + 186 *pp. (not consecutively paged)* (Editors) 34 #7522

Existence de tours infinies de corps de classes d'après Golod et Šafarevič. *Les Tendances Géom. en Algèbre et Théorie des Nombres, pp.* 231-238. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1966. (H. Bass) 35 #165

* Algèbres de Lie semi-simples complexes. *W. A. Benjamin, Inc., New York-Amsterdam*, 1966. viii + 130 *pp. (not consecutively paged)* (S. Murakami) 35 #6721

Groupes de Lie l-adiques attachés aux courbes elliptiques. *Les Tendances Géom. en Algèbre et Théorie des Nombres, pp.* 239-256. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1966. (H. Popp) 36 #1453

Prolongement de faisceaux analytiques cohérents. *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 1, 363-374. (B. Shiffman) 35 #3088

Local class field theory. *Algebraic Number Theory (Proc. Instructional Conf., Brighton, 1965), pp.* 128-161. *Thompson, Washington, D. C.*, 1967. (G. Whaples) 36 #3753

* Représentations linéaires des groupes finis. *Hermann, Paris*, 1967. xii + 135 *pp. (not consecutively paged)* (T.-Y. Lam) 38 #1190

Sur les groupes de Galois attachés aux groupes p-divisibles. *Proc. Conf. Local Fields (Driebergen, 1966), pp.* 118-131. *Springer, Berlin*, 1967. (T. A. Springer) 39 #4166

Complex multiplication. *Algebraic Number Theory (Proc. Instructional Conf., Brighton, 1965), pp.* 292-296. *Thompson, Washington, D. C.*, 1967. (S. Chowla) 39 #5516

Commutativité des groupes formels de dimension 1. *Bull. Sci. Math.* (2) 91 (1967), 113-115. (R. G. Larson) 37 #2761

(with Bass, H.; Milnor, J.) Solution of the congruence subgroup problem for SL_n ($n \geq 3$) and Sp_{2n} ($n \geq 2$). *Inst. Hautes Études Sci. Publ. Math. No.* 33 (1967), 59-137. (R. Steinberg) 39 #5574

Groupes finis d'automorphismes d'anneaux locaux réguliers. *Colloque d'Algèbre (Paris, 1967), Exp.* 8, 11 *pp. Secrétariat mathématique, Paris*, 1968. (Y. Nakai) 38 #3267

(See also Frobenius, Ferdinand Georg, 38 #4272)

* Когомологии Галуа. (Russian) [Galois cohomologies] Translated from the French by I. V. Dolgačev and V. A. Iskovskih. Edited by Ju. I. Manin. *Izdat. "Mir", Moscow*, 1968. 208 *pp.* (Editors) 40 #5704

* Abelian l-adic representations and elliptic curves. McGill University lecture notes written with the collaboration of Willem Kuyk and John Labute. *W. A. Benjamin, Inc., New York-Amsterdam*, 1968. xvi + 177 *pp. (not consecutively paged)* (T. Ono) 41 #8422

(with Tate, John) Good reduction of abelian varieties. *Ann. of Math.* (2) 88 (1968), 492-517. (M. J. Greenberg) 38 #4488

Groupes de Grothendieck des schémas en groupes réductifs déployés. *Inst. Hautes Études Sci. Publ. Math. No.* 34 (1968), 37-52. (T. Oda) 38 #159

Une interprétation des congruences relatives à la fonction τ de Ramanujan. *Séminaire Delange-Pisot-Poitou:* 1967/68, *Théorie des Nombres, Fasc.* 1, *Exp.* 14, 17 *pp. Secrétariat mathématique, Paris*, 1969. (B. Stolt) 39 #5464

* Алгебры Ли и группы Ли. (Russian) [Lie algebras and Lie groups] translated from the English and French by A. B. Volynskiĭ. Edited by A. L. Oniščik. *Izdat. "Mir", Moscow*, 1969. 375 *pp.* (Editors) 40 #5795

Cohomologie des groupes discrets. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A268-A271. (J. Dieudonné) 39 #2769

* Cours d'arithmétique. Collection SUP: "Le Mathématicien", 2. *Presses Universitaires de France, Paris*, 1970. 188 *pp.* (Burton W. Jones) 41 #138

Le problème des groupes de congruence pour SL_2. *Ann. of Math.* (2) 92 (1970), 489-527. (J. E. Humphreys) 42 #7671

(with Borel, Armand) Adjonction de coins aux espaces symétriques; applications à la cohomologie des groupes arithmétiques. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1156-A1158. (H. Bass) 42 #5997

Sur une question d'Olga Taussky. *J. Number Theory* 2 (1970), 235-236. (R. W. Carter) 41 #5491

(See also Griffiths, P. A., 43 #1980)

(with Borel, Armand) Cohomologie à supports compacts des immeubles de Bruhat-Tits; applications à la cohomologie des groupes S-arithmétiques. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A110-A113. (H. Bass) 43 #221

Sur les groupes de congruence des variétés abéliennes. II. (Russian summary) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 731-737. (J. W. S. Cassels) 44 #6702

Serrin, James B., Jr.

Local behavior of solutions of quasi-linear equations. *Acta Math.* 111 (1964), 247-302. (C. B. Morrey, Jr.) 30 #337

Pathological solutions of elliptic differential equations. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 385-387. (J. Friberg) 30 #335

Removable singularities of solutions of elliptic equations. *Arch. Rational Mech. Anal.* 17 (1964), 67-78. (C. B. Morrey, Jr.) 30 #336

(with Goffman, Casper) Sublinear functions of measures and variational integrals. *Duke Math. J.* 31 (1964), 159-178. (L. Cesari) 29 #206

} Singularities of solutions of nonlinear equations. *Proc. Sympos. Appl. Math., Vol. XVII, pp.* 68-88. *Amer. Math. Soc., Providence, R. I.*, 1965. (W. Littman) 32 #4358

Isolated singularities of solutions of quasi-linear equations. *Acta Math.* 113 (1965), 219-240. (J. Friberg) 31 #494

Removable singularities of solutions of elliptic equations. II. *Arch. Rational Mech. Anal.* 20 (1965), 163-169. (C. B. Morrey, Jr.) 32 #4374

(with Weinberger, H. F.) Isolated singularities of solutions of linear elliptic equations. *Amer. J. Math.* 88 (1966), 258-272. (C. B. Morrey, Jr.) 34 #1697

(with Jenkins, Howard) Variational problems of minimal surface type. II. Boundary value problems for the minimal surface equation. *Arch. Rational Mech. Anal.* 21 (1966), 321-342. (Editors) 32 #8221

(with Jenkins, Howard) The Dirichlet problem for the minimal surface equation, with infinite data. *Bull. Amer. Math. Soc.* 72 (1966), 102-106. (R. Osserman) 32 #2988

(with Aronson, D. G.) A maximum principle for nonlinear parabolic equations. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 291-305. (A. Friedman) 36 #2972

(with Aronson, D. G.) Local behavior of solutions of quasilinear parabolic equations. *Arch. Rational Mech. Anal.* 25 (1967), 81-122. (B. Frank Jones, Jr.) 39 #5952

Addendum to: "A priori estimates for solutions of the minimal surface equation". *Arch. Rational Mech. Anal.* 28 (1967/68), 149-154. (R. Osserman) 36 #2941

On the mathematical basis for Prandtl's boundary layer theory: An example. *Arch. Rational Mech. Anal.* 28 (1967/68), 217-225. (W. Velte) 37 #3218

The Dirichlet problem for quasilinear equations with many independent variables. *Proc. Nat. Acad. Sci. U.S.A.* 58 (1967), 1829-1835. (H. B. Jenkins) 37 #1787

Asymptotic behaviour of velocity profiles in the Prandtl boundary layer theory. *Proc. Roy. Soc. Ser. A* 299 (1967), 491-507. (M. M. Schiffer) 43 #8294

(with Jenkins, Howard) Variational problems of minimal surface type. III. The Dirichlet problem with infinite data. *Arch. Rational Mech. Anal.* 29 (1968), 304-322. (R. Osserman) 37 #2055

(The sign } indicates an entry in the supplement.)

(with McLeod, J. B.) The existence of similar solutions for some laminar boundary layer problems. *Arch. Rational Mech. Anal.* 31 (1968/69), 288-303. (K. Stewartson) 38 #4092

(with McLeod, J. B.) The behaviour of similar solutions in a compressible boundary layer. *J. Fluid Mech.* 34 (1968), 337-342. (W. F. Ames) 38 #4093

(with Jenkins, Howard) The Dirichlet problem for the minimal surface equation in higher dimensions. *J. Reine Angew. Math.* 229 (1968), 170-187. (R. Osserman) 36 #5519

(with Varberg, Dale E.) A general chain rule for derivatives and the change of variables formula for the Lebesgue integral. *Amer. Math. Monthly* 76 (1969), 514-520. (R. S. Booth) 40 #280

On surfaces of constant mean curvature which span a given space curve. *Math. Z.* 112 (1969), 77-88. (E. Kreyszig) 40 #3447

The problem of Dirichlet for quasilinear elliptic differential equations with many independent variables. *Philos. Trans. Roy. Soc. London Ser. A* 264 (1969), 413-496. (M. M. Schiffer) 43 #7772

On the strong maximum principle for quasilinear second order differential inequalities. *J. Functional Analysis* 5 (1970), 184-193. (H. Beckert) 41 #3966

The Dirichlet problem for surfaces of constant mean curvature. *Proc. London Math. Soc.* (3) 21 (1970), 361-384. (E. Kreyszig) 43 #1093

Recent developments in the mathematical aspects of boundary layer theory. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 9 (1971), 233-240. (Author's summary) 43 #5787

Entire solutions of nonlinear Poisson equations. *Proc. London Math. Soc.* (3) 24 (1972), 348-366. (D. L. Colton) 44 #7146

Šerševskiĭ, E. P.

Certain problems of infinitesimal deformations for second order surfaces of negative curvature with boundary. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 357-360. (O. Krötenheerdt) 35 #7219

Šerstnev, A. N.

Random normed spaces. Questions of completeness. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 122 (1962), *kn.* 4, 3-20. (G. Marinescu) 30 #4239

On the axiomatics of spaces with statistical metrics. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 61-63. *Izdat. Kazan. Univ., Kazan,* 1963. (R. Theodorescu) 33 #1839a

On the best triangle inequalities for statistical metric spaces. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 64-65. *Izdat. Kazan. Univ., Kazan,* 1963. (R. Theodorescu) 33 #1839b

The countably normed space as a statistical normed one. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 65-67. *Izdat. Kazan Univ., Kazan,* 1963. (R. Theodorescu) 33 #1839c

On a probabilistic generalization of metric spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 2, 3-11. (B. Schweizer) 36 #3391

Some best approximation problems in random normal spaces. (Russian) *Rev. Roumaine Math. Pures Appl.* 9 (1964), 771-789. (A. Sklar) 34 #3622

(with Muštari, D. H.) A certain problem on triangle inequalities for random normed spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 2, 102-113 (1966). (R. M. Dudley) 37 #879

The triangle inequalities for random metric spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 6, 90-93 (1966). (R. Theodorescu) 37 #2278

(with Muštari, D. H.) On methods of introducing a topology in random metric spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 6 (55), 99-106. (R. M. Dudley) 34 #3538

Boolean logics. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 48-62. (A. Bogoljubov (RŽMat 1969 #4 B550)) 44 #4536

The representation of measures that are defined on the orthoprojectors of Hilbert space by bilinear forms. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 9 (100), 90-97. (P. Wojtaszczyk) 43 #7916

Sertorio, L.

(with Toller, M.) Complex angular momentum and three-dimensional Lorentz group. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 413-433. (E. Predazzi) 32 #5131

(with Cosenza, G.; Toller, M.) Singular integral equations in the bound-state problem. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 913-932. (D. Lurié) 32 #3503

(with Restignoli, M.; Toller, M.) Numerical solution of a simplified Bethe-Salpeter equation for pion-pion interaction near $t=0$. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 511-523. (N. Nakanishi) 33 #2211

(with Boldrighini, C.) A discussion of duality and analyticity. (Italian and Russian summaries) *Nuovo Cimento A* (11) 1 (1971), 293-318. (S. Aramaki) 43 #7150

ervadio, Sergio

Computation of the cluster coefficients of the δ-function gases through the U functions. *J. Mathematical Phys.* 12 (1971), 2413-2415. (D. ter Haar) 44 #6286

Šervašidze, T. L.

The square deviation of two parametric estimators of the density of the two-dimensional normal distribution. (Russian. Georgian summary) *Thbilis. Sahelmc. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 105-110. (S. Kotz) 43 #1325

The mean square error of a parametric estimate of the density of a distribution, and the mean square deviation of two such estimates. (Russian) *Thbilis. Sahelmc. Univ. Gamoqeneb. Math. Inst. Šrom.* 2 (1969), 243-247. (J. Wolfowitz) 42 #6980

Limit theorems for a certain class of random vectors. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 61 (1971), 21-24. (J. Štěpán) 44 #3377

Servi, Mario

Sulla meno fine topologia ottenuta per estensione da una infratopologia generalizzata. (English summary) *Univ. e Politec. Torino Rend. Sem. Mat.* 23 (1963/64), 237-248. (O. Wyler) 30 #1961

Sull'estensione degli operatori di tipo V_{DD}. (English summary) *Univ. e Politec. Torino Rend. Sem. Mat.* 24 (1964/65), 125-136. (G. N. Raney) 32 #7467

Algebre di Fréchet: Una classe di algebre booleane con operatore. (English summary) *Rend. Circ. Mat. Palermo* (2) 14 (1965), 335-366. (O. Wyler) 35 #954

A representation theorem for "regular" hemimorphisms between Boolean algebras. (Italian summary) *Riv. Mat. Univ. Parma* (2) 7 (1966), 185-191. (O. Wyler) 38 #3195

Limiti diretti di spazi topologici generalizzati. *Boll. Un. Mat. Ital.* (3) 22 (1967), 363-367. (S. Swaminathan) 36 #5881

Prodotti e quozienti di spazi topologici generalizzati. *Mathematiche (Catania)* 22 (1967), 114-127. (S. Swaminathan) 36 #2111

Limiti inversi di spazi topologici generalizzati. *Matematiche (Catania)* 22 (1967), 303-315. (S. Swaminathan) 37 #5838

Sulle sottalgebre "normali" di una W-algebra. (English summary) *Riv. Mat. Univ. Parma* (2) 8 (1967), 243-250. (I. Sussman) 40 #80

Questioni di algebra universale in una categoria astratta. (English summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 93-116. (V. Dlab) 40 #202

Una definizione alternativa di "funtori aggiunti". (English summary) *Boll. Un. Mat. Ital.* (4) 2 (1969), 510-514. (G. M. Kelly) 40 #5695

Sesekin, N. F.

On the classification of torsion-free metabelian groups with a finite number of generators. (Russian) *Učen. Zap. Ural. Gos. Univ.* 1956, *vyp.* 19, 27-41. (L. Fuchs) 30 #2070

On the product of complete Abelian permutable groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 3, *tetrad* 3, 45-49 (1962). (L. Fuchs) 30 #2071

(with Busarkina, L. R.) Single-step algebras. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad'* 1, 28-34 (1965). (E. T. Schmidt) 34 #1244

(with Romalis, G. M.) Metahamiltonian groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad'* 3, 101-106 (1966). (O. H. Kegel) 34 #2696

Criteria of nilpotency for Fitting radicals of infinite groups and some corollaries. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 89-93 (1967). (E. Schenkman) 36 #2694

The product of finitely connected abelian groups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1427-1430. (L. Fuchs) 38 #4559

(with Romalis, G. M.) Metahamiltonian groups. II. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 3, 50-52 (1968). (O. H. Kegel) 42 #4628

(with Kuroš, A. G.; Plotkin, B. I.; Ševrin, L. N.) Petr Grigor'evič Kontorovič: Obituary. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 4 (142), 239-240 (1 *plate*). (Editors) 37 #3897

(with Starostin, A. I.; Ševrin, L. N.) The scientific work of P. G. Kontorovič. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 5-19. (Editors) 44 #19

(with Romalis, G. M.) The metahamiltonian groups. III. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 195-199. (O. H. Kegel) 44 #2828

(with Gol'denberg, M. M.) Groups with invariant subgroups that are not completely decomposable. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 263-265. (R. Göbel) 42 #6098

(with Gol'denberg, M. M.) Groups with invariant nonisolated subgroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 2 (105), 53-57. (L. Dornhoff) 44 #305

(with Gol'denberg, M. M.) Finite primary groups, $p\neq2$, with invariant not fully decomposable subgroups. (Russian) *Mat. Zametki* 9 (1971), 551-560. (R. E. Peinado) 44 #6818

Seshadri, Conjeerveram Srirangachari

Algebraic vector bundles over the product of an affine curve and the affine line. *Proc. Amer. Math. Soc.* 10 (1959), 670-673. (R. L. E. Schwarzenberger) 29 #2263

* (with Narasimhan, M. S.; Simha, R. R.; Narasimhan, Raghavan) Riemann surfaces. Mathematical Pamphlets, 1. *Tata Institute of Fundamental Research, Bombay,* 1963. v + 71 *pp. (loose errata)* (Preface) 41 #3750

Quotient space by an abelian variety. *Math. Ann.* 152 (1963), 185-194. (T. Matsusaka) 29 #2264

(with Narasimhan, M. S.) Holomorphic vector bundles on a compact Riemann surface. *Differential Analysis, Bombay Colloq.,* 1964, *pp.* 249-250. *Oxford Univ. Press, London,* 1964. (Editors) 32 #467 (with Narasimhan, M. S.) Holomorphic vector bundles on a compact Riemann surface. *Math. Ann.* 155 (1964), 69-80. (H. Röhrl) 29 #4072

(with Narasimhan, M. S.) Stable bundles and unitary bundles on a compact Riemann surface. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 207-211. (M. F. Atiyah) 30 #588

* (with Murthy, M. Pavaman; Ramanthan, K. G.; Shukla, U.; Sridharan, R.) Galois theory. Mathematical Pamphlets, 3. *Tata Institute of Fundamental Research, Bombay,* 1965. v + 63 *pp.* (From the preface) 41 #1700

(with Narasimhan, M. S.) Stable and unitary vector bundles on a compact Riemann surface. *Ann. of Math.* (2) 82 (1965), 540-567. (M. F. Atiyah) 32 #1725

Universal property of the Picard variety of a complete variety. *Math. Ann.* 158 (1965), 293-296. (P. Cartier) 31 #2246

Space of unitary vector bundles on a compact Riemann surface. *Ann. of Math.* (2) 85 (1967), 303-336. (T. tom Dieck) 38 #1693

Mumford's conjecture for GL(2) and applications. *Algebraic Geometry (Internat. Colloq., Tata Inst. Fund. Res., Bombay,* 1968*), pp.* 347-371. *Oxford Univ. Press, London,* 1969. (T. tom Dieck) 41 #6858

Moduli of π-vector bundles over an algebraic curve. *Questions on Algebraic Varieties (C.I.M.E., III Ciclo, Varenna, 1969), pp.* 139-260. *Edizioni Cremonese, Rome,* 1970. (M. F. Atiyah) 43 #6216

Seshadri, S. R.

Radiation from elementary fluid-mechanical sources in an unbounded electron plasma. *Canad. J. Phys.* 42 (1964), 1573-1586. (Author's summary) 30 #5689

Wave propagation in a compressible ionosphere. I, II. *J. Res. Nat. Bur. Standards Sect. D* 68D (1964), 1285-1295; *ibid.* 68D (1964), 1297-1307. (G. L. Lamb, Jr.) 31 #6522

Seshadri, Vanamamalai

(with Patil, G. P.) A characterization of a bivariate distribution by the marginal and the conditional distributions of the same component. *Ann. Inst. Statist. Math.* 15 (1963), 215-221. (E. J. Gumbel) 30 #4318

(with Patil, G. P.) Characterization theorems for some univariate probability distributions. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 286-292. (E. Lukacs) 30 #1571

On random variables which have the same distribution as their reciprocals. *Canad. Math. Bull.* 8 (1965), 819-824. 33 #755

A characteristic property of the multivariate normal distribution. *Ann. Math. Statist.* 37 (1966), 1829-1831. (E. Lukacs) 33 #8013

Comparison of combined estimators in balanced incomplete blocks. *Ann. Math. Statist.* 37 (1966), 1832-1835. (H. L. Harter) 34 #6913

(with Datko, R.) A characterization and a canonical decomposition of Hurwitzian matrices. *Amer. Math. Monthly* 77 (1970), 732-733. (B. Kolman) 42 #4568

(with Csörgő, M.) Characterizations of the Behrens-Fisher and related problems (A goodness of fit point of view). (Russian summary) *Teor. Verojatnost. i Primenen.* 16 (1971), 21-33. (N. Giri) 44 #4852

Seshu, Sundaram

(with Mayeda, W.) Generation of trees without duplications. *IEEE Trans. Circuit Theory* CT-12 (1965), 181-185. (Authors' summary) 39 #8009

Sesini, Ottorino

L'effetto giroscopico nel calcolo delle velocità critiche flessionali di alberi rotanti col metodo di iterazione. *Ist. Lombardo Accad. Sci. Lett. Rend A* 97 (1963), 47-56. (Author's summary) 31 #1796

Šeško, M. A.

General boundary value problem of linear conjugacy for a system of *n* pairs of functions. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967*, no.* 1, 37-46. (R. A. Kordzadze) 35 #4448

The general boundary value problem of linear conjugacy on a Riemann surface with boundary. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967*, no.* 2, 12-20. (T. J. Reed) 36 #374

A general boundary value problem of linear conjugacy for a class of functions defined on a closed Riemann surface. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967*, no.* 4, 13-21. (Z. Lewandowski) 37 #3021

The general boundary value problem of linear conjugacy with derivatives for a system of *n* function pairs. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968*, no.* 3, 22-29. (J. M. Sloss) 40 #7460

Sesma, J.

(with Garrido, L. M.) Observables of relativistic particles. (Spanish. English summary) *Collect. Math.* 14 (1962), 279-286. (Authors' summary) 29 #4494

(with Biel, J.; Garrido, L. M.) Relation between generalized Foldy-Wouthuysen and Lorentz transformations. *Amer. J. Phys.* 32 (1964), 559-562. (P. Franklin) 29 #1931

Sesma, Javier

(with Ferreira, Erasmo M.) Zeros of the modified Hankel function. *Numer. Math.* 16 (1970), 278-284. (C. J. Bouwkamp) 42 #6301

Šestakov, A. A.

Power asymptotics of order $p < 0$ of the solutions of a nonautonomous differential system with a singular point of higher order. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2101-2104. (Author's summary) 42 #8022

A criterion for uniform asymptotic stability with respect to a non-autonomous homogenous approximation of order $m \geq 1$. (Russian) *Differencial'nye Uravnenija* 7 (1971), 937-940, 952. (E. C. Skowronski) 44 #5573

Šestakov, I. P.

Finite-dimensional algebras with a nil basis. (Russian) *Algebra i Logika* 10 (1971), 87-99. (M. Slater) 44 #5350

Šestakov, V. I.

On the relationship between certain three-valued logical calculi. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 2 (116), 177-181. (V. Devidé) 31 #2140

A dual arithmetic interpretation of the 3-valued propositional calculus utilized in the simulation of this calculus by relay-contact networks. *Appl. of Logic in Science and Technology (Russian), pp.* 341-376, *Izdat. Akad. Nauk SSSR, Moscow,* 1960; *Amer. Math. Soc. Transl.* (2) 48 (1965), 45-72. (B. A. Galler) 33 #3915

Šesterikov, S. A.

(with Lokoščenko, A. M.) On the distribution of slip-line directions under plastic deformation. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964*, no.* 2, 37-40. (N. Cristescu) 29 #817

Sestero, Arrigo

Structure of plasma sheaths. *Phys. Fluids* 7 (1964), 44-51. (D. C. Montgomery) 29 #1020

Sestini, Giorgio

Problemi di diffusione lineari e non lineari analoghi a quello di Stefan. *Confer. Sem. Mat. Univ. Bari No.* 55-56 (1960), 27 *pp.* (W. T. Kyner) 31 #2948

Problemi analoghi a quello di Stefan e loro attualità. (English summary) *Rend. Sem. Mat. Fis. Milano* 37 (1967), 39-50. (Author's summary) 37 #3206

Luigi Merli. (9 settembre 1911...18 dicembre 1968). *Riv. Mat. Univ. Parma* (2) 10 (1969), 213-217. (Editors) 44 #5204

Šestopal, A. F.

(with Mangeron, D.) Application to oscillation theory of the reflection method and the method of Green's function expansion in series of fundamental solutions. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politehn. Bucureşti* 25 (1963), *fasc.* 6, 13-28. (R. N. Goss) 32 #2733

(with Mangeron, D.) On the problem of symbolic calculation in several dimensions based on the Laplace transformation with finite interval of definition. (Russian. French and Romanian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 9(13) (1963), *fasc.* 1-2, 7-12. (Authors' summary) 32 #2852

(with Mangeron, D.) The problem of the expansion of Green's functions of linear differential operators, and certain of its applications to the investigation of oscillatory processes. (Russian) *Mathematica (Cluj)* 5(28) (1963), 233-245. (V. Lakshmikantham) 32 #288

Expansion of the Green's function of an elliptic partial differential equation in the fundamental solutions, over some polygonal domains. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 75-90. (Şt. I. Gheorghiţă) 34 #1733

(with Mangeron, Dumitru Ion) Sul problema di analisi spettrale delle piastre triangolari. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 37-42. (A. Dou) 30 #2230

(with Mangeron, D.) Contribution to the problem of application of Green's function. I. Expansion of Green's functions of linear partial differential operators in terms of fundamental solutions. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 863-875. (P. Grisvard) 33 #6139

(Mangeron, D.) Contributions to the study of Green's function. I. Expansion of the Green's function of a linear partial differential operator in terms of fundamental solutions. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 727-739. (A. Haimovici) 32 #1454

(with Mangeron, Demetrio) Sulle funzioni di Green concernenti i poligoni rettilinei semplicemente connessi. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 605-609. (A. Dou) 32 #7783

(with Mangeron, D.; Mateescu, Liliana) Contribution to the problem of the application of Green's function. II. The case of a single-valued inversion integral of Schwarz-Christoffel for simply connected rectilinear polygons. (Russian) *Rev. Roumaine Math. Pures Appl.* 10 (1965), 133-143. (P. Grisvard) 33 #8135;
} erratum, 36, p. 1566

* Разложение по фундаментальным решениям эллиптических операторов. (Russian) [Expansion in the fundamental solutions of elliptic operators] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Naukova Dumka, Kiev,* 1968. 208 *pp. (1 foldout)* (V. Istrăţescu) 40 #6024

(with Mangeron, D.) Expansion of Green's functions of linear partial differential operators in fundamental solutions and certain of its applications to spectral problems of mathematical physics. (Russian. Bulgarian and French summaries) *B"lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Mat. Inst.* 12 (1970), 5-16. 43 #5187

(with Lenjuk, M. P.) The twice branched solution of the Cauchy problem for a certain class of parabolic systems. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 110-117. (J. Chabrowski) 43 #5169

Šestopal, G. A.

Simple bases in closed classes of functions of the algebra of logic. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1023-1026. (G. Asser) 34 #33

(with Fol'k, N. F.) The solvability of elementary theories of integral and natural numbers with addition. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 141-155. (R. A. DiPaola) 41 #1522

Šestopalov, V. P.

(with Skurlov, V. M.) Fredholm integral equations of the second kind in the problem of the diffraction of a plane wave by a slit. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2173-2199. (L. Guggenbuhl) 41 #7921

Šestyreva, L. V.

Quaternion symplectic geometry. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 12 (1963), 287-314. (L. Lombardo-Radice) 32 #158

(with Andreeva, L. P.) Limiting symplectic spaces. (Russian) *Kolomen. Ped. Inst. Učen. Zap.* 8 (1964), 23-44 (1965). (Editors) 33 #2761

(with Luščickaja, I. G.) Semi-quaternion symplectic straight line. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 276 (1966), 62-70. (H. Salzmann) 36 #2043

Šešukov, E. G.

Motion of two profiles near the interface of fluids of different densities. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 4 (1967), 159-167. (E. Ungureanu-David) 44 #6205

Seth, Asha. See Kapadia, Asha Seth.

Seth, B. R.

Generalized strain measure with applications to physical problems. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962*), pp.* 162-172. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (Author's summary) 29 #775

Survey on second-order elasticity. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962*), pp.* 261-265. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (Editors) 29 #776

* Transition theory of elastic-plastic deformation. A course of extension lectures delivered at Osmania University, Hyderabad, India. *Bangalore Press, Bangalore City,* 1964. v + 64 *pp.* (P. G. Hodge, Jr.) 31 #923

(with Mangeron, D.) On the problem of transition phenomenon. II. Applications concerning shells and tubes under pressure and transition theory of sheet-bending. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 10(14) (1964), *no.* 3-4, 311-322. (D. R. Bland) 32 #1974

Elastic-plastic transition in torsion. (German and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 229-233. (D. R. Bland) 30 #774

Subharmonic problems of continuum mechanics. *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963*), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 382-388. *Izdat. "Nauka", Moscow,* 1965. (R. Gerber) 32 #8541

Plane transitions. *Indian J. Math.* 9 (1967), 499-504 (1968). (D. R. Bland) 41 #1271

Seth, G. R.

(with Rao, J. N. K.) On the comparison between simple random sampling with and without replacement. *Sankhyā Ser. A* 26 (1964), 85-86. (C. Hayashi) 32 #1805

Sethares, G. C.

The extremal property of certain Teichmüller mappings. *Comment. Math. Helv.* 43 (1968), 98-119. (K. Strebel) 37 #4253

Sethi, Ravi

(with Ullman, J. D.) The generation of optimal code for arithmetic expressions. *J. Assoc. Comput. Mach.* 17 (1970), 715-728. (Authors' summary) 43 #1475

Sethi, V. K.

Some consequences of an interpretation of varying probability sampling. *Sankhyā Ser. B* 24 (1962), 215-222. 32 #1864

Solution of a class of programming problems. *Sankhyā Ser. B* 25 (1963), 341-344. (R. L. Graves) 32 #9064

On optimum pairing of units. *Sankhyā Ser. B* 27 (1965), 315-320. (Author's summary) 34 #5248

Sethna, Patarasp Rustomji

Vibrations of dynamical systems with quadratic nonlinearities. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 576-582. 32 #4912

(with Loud, W. S.) Some explicit estimates for domains of attraction. *J. Differential Equations* 2 (1966), 158-172. (J. K. Hale) 32 #7883

Domains of attraction of some quasiperiodic solutions. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R.,* 1965*), pp.* 323-332. *Academic Press, New York,* 1967. (J. A. Marlin) 36 #2897

An extension of the method of averaging. *Quart. Appl. Math.* 25 (1967), 205-211. (T. A. Burton) 36 #474

(with Hemp, Gene W.) On dynamical systems with high frequency parametric excitation. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 3 (1968), 351-365. (A. C. Garibaldi) 39 #3097

(with Moran, T. J.) Some nonlocal results for weakly nonlinear dynamical systems. *Quart. Appl. Math.* 26 (1968), 175-185. (A. C. Garibaldi) 39 #1763 (E)

(with Moran, T. J.) Corrections to the paper "Some nonlocal results for weakly nonlinear dynamical systems". *Quart. Appl. Math.* 27 (1969), 285. (A. C. Garibaldi) 40 #1670

Sethuraman, J.

Some limit distributions connected with fractile graphical analysis. *Sankhyā Ser. A* 23 (1961), 79-90. (S. Malmquist) 31 #4106b

Some limit distributions connected with fixed interval analysis. *Sankhyā Ser. A* 25 (1963), 395-398. (E. Parzen) 30 #603

On the probability of large deviations of families of sample means. *Ann. Math. Statist.* 35 (1964), 1304-1316. (H. Chernoff) 31 #4107 (E)

(with Pathak, P. K.) On the asymptotic distribution of the mean of distinct units in sampling from a finite population. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 113-116. (J. Hájek) 31 #5263

Fixed interval analysis and fractile analysis. *Contributions to Statistics, pp.* 449-470. *Statist. Publ. Soc., Calcutta,* 1965. (Editors) 35 #5094

On the probability of large deviations of the mean for random variables in *D*[0,1]. *Ann. Math. Statist.* 36 (1965), 280-285. (Judah Rosenblatt) 30 #2535

(with Rubin, Herman) Probabilities of moderate deviations. *Sankhyā Ser. A* 27 (1965), 325-346. (W. Hoeffding) 34 #3631

(with Rubin, Herman) Bayes risk efficiency. *Sankhyā Ser. A* 27 (1965), 347-356. (H. Chernoff) 34 #6928

On a characterization of the three limiting types of the extreme. *Sankhyā Ser. A* 27 (1965), 357-364. (L. H. Koopmans) 34 #2044

(with Savage, I. Richard) Stopping time of a rank-order sequential probability ratio test based on Lehmann alternatives. *Ann. Math. Statist.* 37 (1966), 1154-1160. (R. H. Berk) 34 #915 (E)

(with Savage, I. Richard) Correction to: "Stopping time of a rank-order sequential probability ratio test based on Lehmann alternatives". *Ann. Math. Statist.* 38 (1967), 1309. (Editors) 35 #2438

Probabilities of deviations. *Essays in Probability and Statistics, pp.* 655-672. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (W. Hoeffding) 44 #1089

(with Rao, J. S.) Pitman efficiencies of tests based on spacings. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969*), pp.* 405-415. *Cambridge Univ. Press, London,* 1970. (J. V. Deshpande) 44 #7672

Stopping time of a rank-order sequential probability ratio test based on Lehmann alternatives. II. *Ann. Math. Statist.* 41 (1970), 1322-1333. (Richard A. Johnson) 42 #2599

Corrections to: "On the probability of large deviations of families of sample means". *Ann. Math. Statist.* 41 (1970), 1376-1380. (A. F. Ifram) 42 #5294

Setlur, Rangaswamy, V.

The product of implication and counter-implication systems. *Notre Dame J. Formal Logic* 11 (1970), 241-248. (M. Rogava) 44 #3830

On the equivalence of strong and weak validity of rule schemes in the two-valued propositional calculus. *Notre Dame J. Formal Logic* 11 (1970), 249-253. (M. Rogava) 44 #2564

Duality in finite many-valued logic. *Notre Dame J. Formal Logic* 12 (1971), 188-194. (A. Tauts) 44 #5209

Seto, Noriaki

(with Ikeda, Mineo) On expansion theorems in terms of spherical functions for unitary group. I. *Math. Japon.* 13 (1968), 149-157. (R. L. Ingraham) 39 #7038

An expansion theorem for polynomially bounded functions. *Math. Japon.* 13 (1968), 175-181. (R. L. Ingraham) 39 #7357

Seto, Y. J.

(with Dougal, Arwin A.) The wave equation and the Green's dyadic for bounded magnetoplasmas. *J. Mathematical Phys.* 5 (1964), 1326-1334. (Authors' summary) 29 #4553

Setô, Yasuo

(with Tanaka, Shôtarô) On characterizations of I-algebra. I. *Proc. Japan Acad.* 42 (1966), 446-447. (R. C. Lyndon) 34 #2432b

Axiom systems of Aristotle traditional logic. III. *Proc. Japan Acad.* 44 (1968), 60-61. (Editors) 37 #2572

Proofs of some axioms by stroke function. *Proc. Japan Acad.* 44 (1968), 1024-1027. 38 #4275

Settari, A.

Directedness of the set of quasimetrics. (Slovak. German and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian.* 15, 53-60 (1967). (S. Mardešić) 36 #5892

Über die Eigenschaften der Menge der Quasimetriken. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 18 (1967), 45-53 (1968). (L. M. Blumenthal) 42 #2431

Sette, Antonio M.

(with da Costa, Newton C. A.) Les algèbres $\mathcal{E}_\omega$. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1011-A1014. (J. E. Fenstad) 39 #5332

Sette, D.

(See Dispersion and absorption of sound by molecular processes, 29 #4483)

Settle, Thomas B.

Ostilio Ricci, a bridge between Alberti and Galileo. *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris, 1968), Tome III B: Science et Philosophie: XVII^e et XVIII^e Siècles, pp.* 121-126. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (V. E. Thoren) 42 #7468

Seugnet, J. M.

(with Davison, E. J.) A minimum time intercept problem. *IEEE Trans. Automatic Control* AC-15 (1970), 116-118. (Authors' summary) 42 #8932

Seup, Eum Sang. See Eum, Sang-seup.

Ševalle, Klod. See Chevalley, Claude.

Sevaria, K. S.

An integral involving product of Legendre function and Meijer's G-function. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 10 (1967), 227-229. (S. D. Bajpai) 40 #1614

Some theorems on Bessel transforms. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 129-136. (Author's summary) 41 #5898

Integrals involving Kampé de Fériet function. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 21-25. (R. C. Varma) 41 #524

An integral equation involving confluent hypergeometric series of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 55-57. (K. C. Gupta) 40 #7754

A theorem on Laplace transform. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 163-168. (V. P. Mainra) 40 #7735

A theorem on Bessel transform. II. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 13 (1970), 107-112. (R. K. Saxena) 43 #6667

Sevast'janov, B. A.

On the general definition of branching stochastic processes. (Russian) *Winter School in Theory of Probability and Math. Statistics held in Užgorod,* 1964, *pp.* 217-220. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. (K. Dietz) 31 #2758

(with Čistjakov, V. P.) Asymptotic normality in the classical problem of balls. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 223-237. (R. F. Gundy) 29 #4128

Branching processes with conversions depending on the age of the particles. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 577-594. (K. Dietz) 30 #634

Limit theorems in a scheme for distribution of particles in cells. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 696-700. (C. V. Stanojevic) 34 #3632

Regularity of branching processes. (Russian) *Mat. Zametki* 1 (1967), 53-62. (K. Dietz) 35 #7425

(with Viktorova, I. I.) Limiting behavior of the maximum in a polynomial scheme. (Russian) *Mat. Zametki* 1 (1967), 331-338. (K. Dietz) 35 #2327

(with Ivčenko, G. I.; Medvedev, Ju. I.) The distribution of a random number of particles in cells. (Russian) *Mat. Zametki* 1 (1967), 549-554. (F. L. Spitzer) 36 #932

Convergence of the number of empty boxes to Gaussian and Poisson processes in the classical occupancy problem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 144-154. (J. G. Wendel) 35 #3721

Asymptotic behavior of the probability of continuation of a critical branching process. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 179-183. (K. Dietz) 35 #3744

Theory of branching processes. (Russian) *Theory of Probability, Mathematical Statist., Theoret. Cybernet.* 1967 *(Russian), pp.* 5-46. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1968. (J. G. Wendel) 39 #3612

Renewal type equations and moments of branching processes. (Russian) *Mat. Zametki* 3 (1968), 3-14. (J. G. Wendel) 36 #6016

The mathematical expectations of functions of sums of random numbers of terms. (Russian) *Mat. Zametki* 3 (1968), 387-394. (K. R. Parthasarathy) 37 #953

Branching processes. (Russian) *Mat. Zametki* 4 (1968), 239-251. (E. Seneta) 38 #3928

Limit theorems for branching processes with conversions depending on the age of the particles. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 243-265. (J. G. Wendel) 37 #4889

(with Zaharov, V. K.; Sarmanov, O. V.) A sequential χ^2 test. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 444-460. (G. K. Eagleson) 41 #6364

The "empty box" test and its generalizations. (Russian) *Thbilis. Saḫelmq̧. Univ. Gamoqeneb. Math. Inst. Šrom.* 2 (1969), 229-233. (G. K. Eagleson) 42 #8610

A necessary condition for the regularity of branching processes. (Russian) *Mat. Zametki* 7 (1970), 389-396. (Ju. M. Ryžov) 43 #8138

(with Čistjakov, V. P.) Multi-dimensional renewal equations, and moments of branching processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 16 (1971), 201-217. (J. Galambos) 44 #1123

(with Sarmanov, O. V.; Tarakanov, V. E.) Certain combinatorial identities. (Russian) *Mat. Zametki* 11 (1972), 121-127. (J. B. Roberts) 44 #6512

Sevast'yanov, B. A. See Sevast'janov, B. A.

Ševčenko, Ju. M.

The differential equations of a disc with an asymmetric profile. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1965, 180-184. (Author's summary) 30 #4424

(with Grigorenko, Ja. M.) Anatoliĭ Dmitrevič Kovalenko (on his sixtieth birthday). (Russian) *Prikladna. Meh.* 1 (1965), *vyp.* 1, 133-137. 32 #1104

Ševčenko, R. F.

On the trace of a differential operator. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 62-65. (W. A. Coppel) 32 #4313

Regularization of the trace of an ordinary differential operator. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 6, 28-36. (G. W. Hedstrom) 33 #3136

On zeros of nearly cylindrical functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 5, 12-15. (Z. Janković) 34 #1572

Pseudotraces of the operator $-\Delta + q(x)$ defined in the square. (Russian) *Proc. Tech. Sci. Conf. on Advances of Sci. Res.* 1966-1967. *Math. Section (Russian), pp.* 200-210. *Moskov. Ènerget. Inst., Moscow,* 1967. (A. Kufner) 40 #7655

Ševčenko, V. Ī.

On Hölder continuity of solutions of singular integral equations of normal type. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 306-308. (Author's summary (RŽMat 1965 #12 B349)) 36 #5772

On the Riemann-Hilbert boundary-value problem for a holomorphic vector. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 1085-1087. (J. Nieto) 32 #8087

The Hilbert problem for a holomorphic vector. *Dokl. Akad. Nauk SSSR* 169 (1966), 1285-1292 *(Russian); translated as Soviet Math. Dokl.* 7 (1966), 1104-1108. (A. Erdélyi) 35 #5765

Certain boundary value problems for a holomorphic vector. (Russian) *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 11(59) (1967), *no.* 4, 83-101 (1968). (W. Kleiner) 38 #4698

A problem of the type of the directional derivative for a system of two harmonic functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 433-436. (Author's summary) 35 #3254

Neumann's problem for an elliptic system of two equations of the second order in several independent variables. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukrain. RSR Ser. A* 1967, 506-509. (Author's summary) 35 #3258

The Neumann problem for an elliptic system of two second order equations with several independent variables. (Russian) *Mathematical Physics, No.* 5 (1968) *(Russian), pp.* 206-209. *Naukova Dumka, Kiev,* 1968. (G. C. Barozzi) 42 #3420

The Poincaré problem for an elliptic system of two second order equations with several independent variables. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 132-134. (F. Barański) 37 #5535

Some test for the solvability of boundary value problems for a holomorphic vector. (Russian) *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1462-1466. (I. Aganović) 39 #7117

A homotopic classification of elliptic systems of two second order equations with $n > 2$ independent variables. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 138-140, 189. (Ja. A. Roĭtberg) 43 #5152

An explicit formula for the index of a certain boundary value problem. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukrain. RSR Ser. A* 1970, 430-432, 477. (E. Gerlach) 44 #459

The minimal quantity of components of a set of elliptic systems with several independent variables. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 614-616, 669. (V. V. Barkovskiĭ) 43 #7767

Computation of the index of a boundary value problem of the oblique derivative type for elliptic systems of two second order equations with several independent variables. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Moḫsen. Anotacie. Vyp.* 3 (1970), 23-25. (V. V. Barkovskiĭ) 43 #7771

Ševčenko, V. N.

A problem of the uniform distribution of lost time (several shifts). *Èkonom. i Mat. Metody* 3 (1967), 619-623. (V. Tanaev (RŽMat 1968 #2 V422)) 42 #7252

Problem of optimal task scheduling. *Problemy Kibernet. No.* 18 (1967), 129-146 *(Russian); translated as Systems Theory Res.* 18 (1968), 129-147. (E. Marchi) 40 #1128

The intersection of a convex polyhedral cone with an integer lattice. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1264-1266. (G. Bär) 44 #4042

Ševčenko, V. P.

On the action of concentrated tangent forces upon a shallow cylindrical shell. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukrain. RSR* 1965, 864-867. (Z. Kączkowski) 33 #5190

Ševčenko, Yu. M. See Ševčenko, Ju. M.

Ševcov, G. S.

On the commutator subgroup of a semi-direct product of groups. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 108-110. (A. L. S. Corner) 31 #3490

Semi-direct products of locally cyclic groups. (Russian) *Perm. Gos. Univ. Učen. Zap.* 1966, *no.* 131, 76-80. (E. Schenkman) 38 #2219

A class of solvable groups. (Russian) *Perm. Gos. Univ. Učen. Zap.* 1966, *no.* 131, 130-134. (R. Göbel) 37 #5299

Locally generalized-Šmidt groups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1431-1434. (W. P. Kappe) 38 #5927

Ševcov, V. I.

The representation of entire functions by certain general series. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 2, 101-125. (I. N. Baker) 37 #5389

The representation of entire functions by the series $\sum_{n=1}^{\infty}\alpha_n f(\lambda_n z)$. (Russian) *Mat. Zametki* 4 (1968), 579-588. (W. H. J. Fuchs) 39 #2976

The reconstruction of a function when the coefficients of the corresponding Dirichlet series are known. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 574-584. (H. Tornehave) 43 #5007

A certain uniqueness property. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 433-441. (I. N. Baker) 44 #6957

Ševelev, A. G.

The application of the Laplace transform to the analysis of automatic systems with variable parameters. (Russian) *Complex Systems of Control, No.* 3 *(Russian), pp.* 37-58. *Naukova Dumka, Kiev,* 1967. (J. Burlak) 39 #5176a

The application of the Laplace transform to the analysis of pulse systems with variable parameters. (Russian) *Complex Systems of Control, No.* 3 *(Russian), pp.* 59-83. *Naukova Dumka, Kiev,* 1967. (J. Burlak) 39 #5176b

Some properties of the Laplace transform for the analysis of automatic systems with variable parameters. (Russian) *Complex Systems of Control, No.* 4 *(Russian), pp.* 100-106. *Naukova Dumka, Kiev,* 1968. (J. Burlak) 39 #5176c

The stability of automatic systems with variable parameters. (Russian) *Complex Systems of Control, No.* 4 *(Russian), pp.* 107-113. *Naukova Dumka, Kiev,* 1968. (J. Burlak) 39 #5176d

The stability of linear automatic systems with variable parameters. (Russian) *Theory of Automatic Control (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 66-84. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #7975

The stability of impulse systems with variable parameters. (Russian) *Theory of Automatic Control (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 85-103. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #7976

Application of the Laplace transform to the solution of linear differential equations with variable coefficients. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 640-652. (C. Tanaka) 42 #4803

Ševelev, F. Ja.

On the history of the Moscow Mathematical Society. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1963, *no.* 6, 71-78. (Editors) 31 #13

On the history of the Moscow Mathematical Society. (Russian) *History Methodology Natur. Sci., No. V, Math. (Russian), pp.* 62-74. *Izdat. Moskov. Univ., Moscow,* 1966. (I. N. Veselovskiĭ) 33 #7232

Ševeleva, M. V.

Schwarz's formula for the equation $\partial w/\partial\bar{z} + b\bar{w} = 0$. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 531-534. (R. A. Kordzadze) 37 #1630

Ševelo, V. M.

(with Štelik, V. G.) On the theory of the non-autonomous mathematical pendulum. (Russian. English summary) *Ukrain. Mat. Ž.* 14 (1962), 372-382. (M. Kiveliovitch) 29 #763

(with Mitropol′s′kiĭ, Ju. O.; Lučka, A. Ju.; Kurpel′, M. S.) Juriĭ Dmitrievič Sokolov. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 94-101. (Editors) 33 #3875

(with Vareh, N. V.) Some properties of solutions of nonlinear non-autonomous ordinary differential equations of the second order. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 237-247. *Naukova Dumka, Kiev,* 1967. (R. Reissig) 35 #6937

(with Vareh, N. V.) The zeros of the solutions of second order nonlinear nonautonomous ordinary differential equations. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 33-41. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. Bertolino) 43 #622

(with Odarič, O. M.) Conditions for oscillation of solutions of second-order nonlinear differential equations with lag. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 1027-1031. (J. M. Skowroński) 36 #4073

Relations among the properties of solutions of nonlinear nonautonomous ordinary differential equations. (Ukrainian) *Third Sci. Conference of Young Ukrainian Mathematicians (Kiev,* 1966*) (Ukrainian), pp.* 152-169. *Vidavn. "Naukova Dumka", Kiev,* 1967. (D. Bobrowski) 39 #4477

The connection between boundedness and oscillation of solutions of nonautonomous nonlinear ordinary differential equations. (Russian) *Certain Problems of Applied Mathematics, No.* 3 *(Russian), pp.* 284-292. *Izdat. "Naukova Dumka", Kiev,* 1967. (M. Bertolino) 39 #4481

(with Odarič, O. M.) The oscillatory properties of solutions of nonlinear second order differential equations with retarded argument. (Russian) *Mathematical Physics, No.* 4 (1968) *(Russian), pp.* 146-153. *Naukova Dumka, Kiev,* 1968. (S. P. Hastings) 43 #6554

(with Vareh, N. V.) The zeros of solutions of nonlinear nonautonomous ordinary differential equations of the second order. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 430-434. (V. Šeda) 37 #6540

(with Odarič, O. M.) The non-oscillation of solutions of second order nonlinear differential equations with delay. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 540-543. (M. Bertolino) 37 #4370

(with Odarič, O. M.) The nonoscillations of solutions of nonlinear second order differential equations with retarded argument. (Russian) *Trudy Sem. Mat. Fiz. Neliněn. Koleban.* 1 (1968), *vyp.* 2, 268-279. (G. B. Gustafson) 44 #578

(with Odarič, O. M.) The investigation of oscillatory properties of the solutions of second order nonlinear differential equations with retarded argument in the first approximation. (Russian) *Proc. Sem. Differential and Integral Equations, No. I (Russian), pp.* 146-154. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (Á. Elbert) 43 #3590

(with Mitropol′s′kiĭ, Ju. O.) Nikolaĭ Ivanovič Mushelišvili (on his 80th birthday). (Russian) *Ukrain. Mat. Ž.* 23 (1971), 49-51. 43 #3079

(with Odarič, O. M.) Certain questions on the theory of the oscillation (nonoscillation) of the solutions of second order differential equations with retarded argument. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 508-516. (J. Carkovs) 44 #7088

Ševelo, V. N. See Ševelo, V. M.

Sevely, Yves

(with Vidal, Pierre) Sur la stabilité d'une chaîne de régulation à modulation de largeur des impulsions à partie continue du premier et du deuxième ordres. *C. R. Acad. Sci. Paris* 258 (1964), 3185-3187. (E. A. Robinson) 30 #5862

Severa, Miroslav

Axial flow of incompressible Newtonian liquid between two eccentric cylinders. *Acta Tech. ČSAV* 15 (1970), 706-723. (T. W. Kao) 43 #5778

Ševerdjaev, A. Ju.

(with Sagalovič, Ju. L.) On the construction of a long code from a short one with preservation of a correcting property. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 1, 73-74. (P. Constantinescu) 32 #9148

Severi, Francesco

* Funzioni quasi abeliane. Seconda edizione ampliata. Pontificiae Academiae Scientiarum Scripta Varia, 20. *Pontificia Academia Scientiarum, Vatican City,* 1961. 406 *pp.* (J. A. Todd) 29 #5150

(See also Segre, Beniamino, 32 #1113, 29 #4665 and Simposio Matematico Internazionale (Roma, 26-29 Aprile, 1962, 35 #4065)

* Vorlesungen über algebraische Geometrie: Geometrie auf einer Kurve, Riemannsche Flächen, Abelsche Integrale. Berechtigte Deutsche Übersetzung von Eugen Löffler. Mit einem Einführungswort von A. Brill. Begleitwort zum Neudruck von Beniamino Segre. Bibliotheca Mathematica Teubneriana, Band 32. *Johnson Reprint Corp., New York-London,* 1968. xvi + 408 *pp.* (Editors) 39 #6880

Severne, G.

Kinetic equations and stationary state for a system in a uniform external field. *Physica* 30 (1964), 1365-1388. (R. Balescu) 31 #4528

General equations of evolution and kinetic equations for non-uniform systems. *Physica* 31 (1965), 877-907. (J. R. Dorfman) 32 #5289

Severny, A. B. See Servenyĭ.

Severo, Norman C.

(with Montzingo, Lloyd J., Jr.; Schillo, Paul J.) Characterization of the asymptotic distribution of a transformed normal random variable. *Sankhyā Ser. A* 27 (1965), 417-422. (R. H. Farrell) 34 #2045

Two theorems on solutions of differential-difference equations and applications to epidemic theory. *J. Appl. Probability* 4 (1967), 271-280. (J. Gani) 35 #5235

(with Hill, Robert T.) The simple stochastic epidemic for small populations with one or more initial infectives. *Biometrika* 56 (1969), 183-196. 39 #7788

The probabilities of some epidemic models. *Biometrika* 56 (1969), 197-201. (Author's summary) 40 #992

A recursion theorem on solving differential-difference equations and applications to some stochastic processes. *J. Appl. Probability* 6 (1969), 673-681. (I. J. Good) 40 #3622

Generalizations of some stochastic epidemic models. *Math. Biosci.* 4 (1969), 395-402. (Author's summary) 39 #6478

(with Kryscio, Richard J.) Some properties of an extended simple stochastic epidemic model involving two additional parameters. *Math. Biosci.* 5 (1969), 1-8. (P. Holgate) 41 #4699

Right-shift processes. *Proc. Nat. Acad. Sci. U.S.A.* 64 (1969), 1162-1164. (J. R. Kinney) 42 #5325

A note on the Ehrenfest multiurn model. *J. Appl. Probability* 7 (1970), 444-445. 42 #2567

(with Slivka, John) On the strong law of large numbers. *Proc. Amer. Math. Soc.* 24 (1970), 729-734. (C. Stone) 41 #4622

Sevilla, Francisco José Cano. See Cano Sevilla, Francisco José.

Sevost'janov, G. D.

A remark on Mercer's paper, "On integral transform pairs arising from second-order differential equations". (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1200-1202. (P. G. Rooney) 29 #6262

Tricomi boundary value problem for a half-strip and a quarter-plane. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 312-320. (D. A. Lee) 33 #2975

Two Tricomi boundary value problems in an unbounded region. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 1 (56), 95-101. (A. Langenbach) 35 #3281

Sevost'janova, E. A.

(with Mokriščev, K. K.) Infinitely small deformations of a sphere in spaces of constant curvature. (Russian) *Comment. Math. Univ. Carolinae* 6 (1965), 239-250. (H. W. Guggenheimer) 32 #407

Ševrin, L. N.

Semigroups all of whose subsemigroups coincide with their own idealizers. (Russian) *Ural. Gos. Univ. Mat. Zap.* 3, *tetrad* 1, 85-87 (1961). (L. Fuchs) 29 #5944

(with Kopytov, V. M.) Semigroups whose semilattice of subsemigroups has relative complementations. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 1, 74-83 (1963). (L. Fuchs) 32 #1277

Semigroups with a left idealizer condition. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 3, 59-68 (1963). (L. Fuchs) 32 #1278

Projectivities of semi-lattices. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 538-541. (M. Kolibiar) 30 #1958

Lattice isomorphisms of commutative non-periodic semigroups with a cancellation law. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 43-58. (Št. Schwarz) 29 #1272

The lattice-subsemigroup characteristic of non-periodic commutative groups. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 671-678. (B. M. Schein (Šaĭn)) 29 #1270

Remark on the paper "On lattice properties of semigroups". (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 727. (B. M. Schein (Šaĭn)) 29 #1271

The lattice-subsemigroup characteristic of orderable groups. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 5 (119), 157-161. (Št. Schwarz) 30 #2094

Semigroups of finite width. (Russian) *Theory of Semigroups and Appl. I (Russian), pp.* 325-351. *Izdat. Saratov. Univ., Saratov,* 1965. (R. J. Warne) 33 #5771

On locally finite semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 770-773. (V. Devidé) 31 #3529

Certain finiteness conditions in the theory of semigroups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 553-566. (K. Drbohlav) 32 #150

Strong bands of semi-groups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 156-165. (Št. Schwarz) 33 #5770

Fundamental questions in the theory of projectivities of semi-lattices. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 568-597. (G. B. Preston) 35 #2799

Lattice properties of idempotent semigroups. I. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 459-474. (Št. Schwarz) 31 #1315

On the isomorphism of semigroups with relatively complemented sub-semigroups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad'* 1, 92-100 (1965). (G. Szász) 34 #2743

(with Filippov, N. D.) Partially ordered sets and their comparison graphs. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 193-194. *Tartu. Gos. Univ., Tartu,* 1966. (S. Rudeanu) 33 #7277; erratum, 42, p. 1822

Elementary lattice properties of semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 305-308. (H.-J. Hoehnke) 34 #1430

Semi-isomorphisms and lattice isomorphisms of semigroups with a cancellation law. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 296-298. (M. Kolibiar) 35 #1689

Lattice isomorphisms of commutative holoidal semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 1 (50) 153-160. (Št. Schwarz) 34 #2744

Completely simple semigroups without zero and idealizers of subsemigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 6 (55), 157-160. (S. Lajos) 34 #1432

(with Baranskiĭ, V. A.) Lattice isomorphisms of semigroups decomposable into a free product. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 236-250. (Št. Schwarz) 34 #4397

Lattice properties of idempotent semigroups. II. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 437-454. (Št. Schwarz) 33 #5772

Elementary lattice properties of semigroups. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 664-684. (Roger Renne) 34 #1431

Fundamental questions in the theory of projectivities of semi-lattices. II. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad'* 3, 107-122 (1966). (G. B. Preston) 35 #2800

Semi-isomorphisms of semi-groups with cancellation law. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 957-964. (R. P. Sullivan) 39 #336

Lattice isomorphisms of orderable semigroups with cancellation law. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1229-1238. (B. Šaĭn (RŽMat 1968 #6 A232)) 39 #4071

(with Gluskin, L. M.; Šaĭn, B. M.) Semigroups. (Russian) *Algebra. Topology. Geometry.* 1966 *(Russian), pp.* 9-56. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. (G. E. Dimitroff) 38 #5956

(with Kuroš, A. G.; Plotkin, B. I.; Sesekin, N. F.) Petr Grigor'evič Kontorovič: Obituary. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 4 (142), 239-240 (1 *plate*). (Editors) 37 #3897

Densely imbedded ideals of semigroups. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 425-432. (J. Bosák) 40 #1510

(with Sesekin, N. F.; Starostin, A. I.) The scientific work of P. G. Kontorovič. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 5-19. (Editors) 44 #19

(with Filippov, N. D.) Partially ordered sets and their comparability graphs. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 648-667. (S. Rudeanu) 42 #4451

Sevruk, I. G.

Stationary heat convection in a spherical layer of liquid. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 16, *vyp.* 3, 47-54 (1958). (J. Kestin) 31 #2977

Sewell, Geoffrey L.

Quantum-statistical theory of irreversible processes: Dynamics of gross variables. *Physica* 31 (1965), 1520-1536. (J. A. McLennan) 33 #7055

Unbounded local observables in quantum statistical mechanics. *J. Mathematical Phys.* 11 (1970), 1868-1884. (W. Faris) 41 #9536

(with Dubin, D. A.) Time translations in the algebraic formulation of statistical mechanics. *J. Mathematical Phys.* 11 (1970), 2990-2998. (E. J. Verboven) 43 #2957

(with Marinaro, M.) Characterisations of phase transitions in Ising spin systems. *Comm. Math. Phys.* 24 (1972), 310-335. (S. Sherman) 44 #7914

Sewell, M. J.

Inverse rigid/plastic constitutive equations. (French, German, Italian, and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 317-325. (R. Hill) 29 #4328

A general theory of elastic and inelastic plate failure. II. *J. Mech. Phys. Solids* 12 (1964), 279-297. (S. R. Bodner) 30 #2747

On the calculation of potential functions defined on curved boundaries. *Proc. Roy. Soc. Ser. A* 286 (1965), 402-411. (R. Hill) 32 #1932

On dual approximation principles and optimization in continuum mechanics. *Philos. Trans. Roy. Soc. London Ser. A* 265 (1969/70), 319-351. (F. V. Pohle) 40 #8329

On the branching of equilibrium paths. *Proc. Roy. Soc. London Ser. A* 315 (1970), 499-518. (Author's summary) 41 #6441

Sewell, W. E.

Integrated Lipschitz conditions and approximation in the mean by interpolating polynomials. *SIAM J. Numer. Anal.* 3 (1966), 329-343. (C. W. Clenshaw) 34 #2904

Remarks on the mathematical researches of J. L. Walsh. *SIAM J. Numer. Anal.* 3 (1966), 344-348. 33 #5907

Sewell, Wade P.

Least squares, conditional predictions, and estimator properties. *Econometrica* 37 (1969), 39-43. (E. H. Lehman, Jr.) 39 #3650

Sexauer, N. E.

Pythagorean triples over Gaussian domains. *Amer. Math. Monthly* 73 (1966), 829-834. (W. H. Mills) 34 #1268

Pythagorean triples over Gaussian domains with fundamental units. *Amer. Math. Monthly* 75 (1968), 278-279. (J. B. Kelly) 37 #4003

(with Warnock, J. E.) The radical of the row-finite matrices over an arbitrary ring. *Trans. Amer. Math. Soc.* 139 (1969), 287-295. (E. M. Patterson) 39 #249

Sexl, Roman U.

(with Pechlaner, E.) On quadratic Lagrangians in general relativity. *Comm. Math. Phys.* 2 (1966), 165-175. (H. A. Buchdahl) 33 #7091

(with Nachtmann, Otto; Schmidle, Harald) On the structure of field theories of gravitation. *Acta Phys. Austriaca* 29 (1969), 289-299. (C. W. Kilmister) 40 #1124

(with Nachtmann, Otto; Schmidle, Harald) On the most general linear theory of gravitation. *Comm. Math. Phys.* 13 (1969), 254-256. (W. B. Bonnor) 40 #6908

Sexton, Charles R.

Corrigenda: "Statistics on certain large primes". *Math. Comp.* 22 (1968), 474. (Editors) 37 #1300

Seybold, Hans

Über besondere Singularitäten in den Differentialgleichungen des Dreikörperproblems. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1967*, Abt. II,* 83-119 (1968). (J. Moser) 39 #537

Seydi, Hamet

Anneaux henséliens et conditions de chaînes. *Bull. Soc. Math. France* 98 (1970), 9-31. (L. J. Ratliff, Jr.) 41 6830

Anneaux henséliens et conditions de chaînes. III. *Bull. Soc. Math. France* 98 (1970), 329-336. (H. S. Butts) 43 #1970

Anneaux henséliens et conditions de chaînes: La formule des dimensions. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A696-A698. (H. S. Butts) 41 #1723

Un théorème de descente effective universelle et une application. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A801-A803. (A. Rosenberg) 42 #3073

Sur la théorie des anneaux japonais. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A73-A75. (J. C. Fogarty) 42 #4534

Anneaux henséliens et conditions de chaînes. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A120-A121. (C. Yohe) 43 #3253

Sur deux théorèmes d'algèbre commutative. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1105-A1108. (P. Corsini) 43 #4814

Sur les anneaux de séries formelles algébriques. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1169-A1172. (E. Enochs) 43 #7430

La réciproque d'un théorème de Kikuchi. *J. Math. Kyoto Univ.* 11 (1971), 415-424. (Allen B. Altman) 44 #5310

Seyfferth, Siegfried

On the structure of the Galilean and translationally invariant operator algebra describing intrinsic properties of finite nuclear systems. *Z. Physik* 200 (1967), 511-525. (T. Sasakawa) 35 #3988

The Galilean and translationally invariant operator algebra describing nuclei. II. Discussion of the commutation relations. *Z. Physik* 204 (1967), 155-163. (T. Sasakawa) 35 #7666

Seyler, R. G.

(with Darling, J. D.) Complete classification of the states of nuclear configurations j^k for $j = 9/2$. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 21 (1966), 33-54. (G. H. Derrick) 34 #2297

Seymour, P. W.

Motions of charged particles in plasmas. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 1 (1963), 423-451. (Editors) 30 #3730

Sficas, Yiannis See Sfikas, Ioannis G.

Sfikas, Ioannis G.

Contribution to the study of differential equations with delay. (Greek. English summary) *Bull. Soc. Math. Grèce (N.S.)* 9 (1968), *fasc.* 2, 25-93. (V. Staikos) 40 #3010

Sgambati, Luciana

Su una classe di sistemi di equazioni alle derivate parziali del primo ordine. *Mathematiche (Catania)* 23 (1968), 124-146. (A. Dou) 39 #7277

Sgrosso, Anna

Un problema di geometria elementare. *Ricerca (Napoli)* (2) 15 (1964), *maggio-agosto,* 25-35. (H. R. Müller) 31 #5128

Shaanova, A. N. See Šaanova, A. N.

Shabad, A. Ye. See Šabad, A. E.

Shabat, B. V. See Šabat, B. V.

Sha Chen

(with Kuo Chu-shui) Approximate degree of functions approximated by linear positive operators. (Chinese) *Shuxue Jinzhan* 9 (1966), 381-386. (C. C. Wu) 39 #1869

Shachnev, V. A. See Šačnev, V. A.

Shachtman, Richard H.

The Pettis-Stieltjes (stochastic) integral. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1039-1060. (J. J. Uhl, Jr.) 43 #467

Shackell, J. R.

(with Earl, J. P.) Note on the region of overconvergence of Dirichlet series with Ostrowski gaps. *Proc. Glasgow Math. Assoc.* 7, 169-173 (1966). (E. Hille) 33 #7503

Some theorems on the boundary behaviour of Dirichlet series with complex exponents. *J. London Math. Soc.* 42 (1967), 57-72. (M. E. Noble) 34 #6042

Singularities of Dirichlet series with complex exponents. *Michigan Math. J.* 14 (1967), 497-505. (C. Tanaka) 36 #2786

On a conjecture of V. Bernstein. *Ark. Mat.* 8, 83-101 (1969). (Y. Komatu) 42 #4711

Overconvergence of Dirichlet series with complex exponents. *J. Analyse Math.* 22 (1969), 135-170. (M. E. Noble) 43 #491

Shad, S. A.

(with Chawla, L. M.) On a trio-set of partition functions and their tables. *J. Natur. Sci. and Math.* 9 (1969), 87-96. (H. Gupta) 40 #4227

(with Chawla, L. M.) On a restricted partition function $t(n)$ and its table. *J. Natur. Sci. and Math.* 9 (1969), 217-221. (J. M. Gandhi) 41 #6761

Shader, Leslie E.

Arithmetic functions associated with unitary divisors in GF[q,x]. I, II. *Ann. Mat. Pura Appl.* (4) 86 (1970), 79-85; *ibid.* (4) 86 (1970), 87-97. (L. Carlitz) 42 #4526

The unitary Brauer-Rademacher identity. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 48 (1970), 403-404. (M. S. Cheema) 42 #7583

Shadman, D.

(with Stippes, M.) Method of orthogonal polynomials in plane theory of elasticity. (Polish and Russian summaries) *Arch. Mech. Stos.* 21 (1969), 17-32. (E. Pinney) 40 #5176

Shafaat, Ahmad

(with Chawla, L. M.) On certain classes of diophantine equations defining equivalence relations over integers. *J. Natur. Sci. and Math.* 3 (1963), 163-173. (O. Frink) 29 #66

On equivalence relations over integers defined by certain types of equations. *J. Natur. Sci. and Math.* 4 (1964), *no.* 1, 93-101. (B. J. Birch) 29 #4725

Self-dual Boolean functions. *J. Natur. Sci. and Math.* 4 (1964), *no.* 1, 167-182. (D. Monk) 32 #5564

Simple homogeneous self-dual Boolean functions. *J. Natur. Sci. and Math.* 4 (1964), *no.* 2, 89-95. (B. Brainerd) 31 #5822

Self-dual lattice polynomials. *J. Natur. Sci. and Math.* 5 (1965), *no.* 2, 227-230. (B. Brainerd) 32 #7464

(with Manzur Hussain, S.) On certain expressions involving pth roots of unity. *Panjab Univ. J. Math.* 1 (1967), 53-59. (H. Gupta) 37 #136; erratum, 41, p. 1963

Principle of localization for a more general type of languages. *Proc. London Math. Soc.* (3) 17 (1967), 629-643. (W. S. Hatcher) 36 #1308

Clusters of algebras. *Algebra i Logika* 7 (1968), *no.* 5, 109-116. (G. Bruns) 41 #3362

On the number of topologies definable for a finite set. *J. Austral. Math. Soc.* 8 (1968), 194-198. (D. R. Traylor) 37 #1263

A remark on a paper of Taĭmanov. *Algebra i Logika* 8 (1969), 373-374. (S. Comer) 41 #3260

On implicationally defined classes of algebras. *J. London Math. Soc.* 44 (1969), 137-140. (H.-B. Brinkmann) 38 #5691

Characterizations of some universal classes of algebras. *J. London Math. Soc.* (2) 2 (1970), 385-388. (Adil Yaqub) 41 #8326

A note on quasiprimitive classes of algebras. *J. London Math. Soc.* (2) 2 (1970), 489-492. (Y. C. Wu) 43 #1914

Subcartesian products of finitely many finite algebras. *Proc. Amer. Math. Soc.* 26 (1970), 401-404. (I. Sussman) 42 #172

On the structure of certain idempotent semigroups. *Trans. Amer. Math. Soc.* 149 (1970), 371-378. (T. Tamura) 41 #3640

Lattices of subsemivarieties of certain varieties. *J. Austral. Math. Soc.* 12 (1971), 15-20. (R. S. Pierce) 43 #1906

Shafarevich, I. R. See Šafarevič, Igor R.

Shafer, J.

(with Tamura, Takayuki) Another proof of two decomposition theorems of semigroups. *Proc. Japan Acad.* 42 (1966), 685-687. (F. C. Biesele) 34 #7694

(with Tamura, Takayuki) Power semigroups. *Math. Japon.* 12 (1967), 25-32. (W. D. Munn) 37 #1499

Note on power semigroups. *Math. Japon.* 12 (1967), 32. (W. D. Munn) 37 #1500

Shafeyev, M. N. See Šafeev, M. N.

Shaffer, Charles V.

On singular solutions to Polya's functional equation. *IEEE Trans. Automatic Control* AC-13 (1968), 135-136. (B. Schweizer) 38 #1421

Shaffer, Dorothy Browne

Distortion theorems for lemniscates and level loci of Green's functions. *J. Analyse Math.* 17 (1966), 59-70. (W. Schneider) 36 #361

Distortion theorems for the level curves of rational functions and harmonic functions. *J. Math. Mech.* 19 (1969/70), 41-48. (M. Marden) 41 #444

On the convexity of lemniscates. *Proc. Amer. Math. Soc.* 26 (1970), 619-620. (W. F. Newns) 42 #6196

The curvature of level curves. *Trans. Amer. Math. Soc.* 158 (1971), 143-150. (M. Marden) 43 #3428

Shaffer, Gedaliah R.

T-matrix analyticity using Fredholm theory. *J. Mathematical Phys.* 12 (1971), 2302-2305. (N. Nakanishi) 44 #5026

Shaffer, R. A.

Vector boson electrodynamics. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1-8. (R. L. Ingraham) 33 #2226

Shafran, J. S.

(with Luh, J. Y. S.) Construction of the minimal time control for processes with bounded control amplitudes and rates. *IEEE Trans. Automatic Control* AC-14 (1969), 150-164. (Authors' summary) 39 #5196

(with Luh, J. Y. S.) Recoverability for processes with bounded control amplitudes and rates. *SIAM J. Control* 8 (1970), 189-201. (Leonard Weiss) 44 #8007

Shafranov, V. D. See Šafranov, V. D.

Shaginian, A. L. See Šaginjan, A. L.

Shah, A. P.

Fibonacci sequence modulo *m*. *Fibonacci Quart.* 6 (1968), *no.* 2, 139-141. (W. H. Simons) 40 #86

On a relation between pentagonal and triangular numbers. *Vidya* 11 (1968), *no.* 1, 174-177. (Author's summary) 39 #6808; erratum, 41, p. 1963

Sequence of *m*-gonal numbers mod *n*. *Vidya* 12 (1969), *no.* 2, 145-152. (M. S. Cheema) 42 #5893

On divisibility properties of numbers by 7. *Vidya* 12 (1969), *no.* 2, 153-163. (M. S. Cheema) 42 #5894

Shah, B. V.

(with Buehler, R. J.; Kempthorne, O.) Some algorithms for minimizing a function of several variables. *J. Soc. Indust. Appl. Math.* 12 (1964), 74-92. (J. Sacks) 29 #2935

Shah, Bhupendra K.

(with Venkataraman, V. K.) A note on modified Poisson distribution. *Metron* 22 (1962/63), 27-35. (A. C. Cohen) 31 #5266

(with Khatri, C. G.) Further investigation in fitting the regression curve of the type $y = \alpha + \delta x + \beta\rho^x$. *J. Indian Statist. Assoc.* 1 (1963), 202-214. (A. C. Cohen) 29 #2885

(with Dave, P. H.) A note on log-logistic distribution. *J. Maharaja Sayajirao Univ. Baroda* 12 (1963), *no.* 3, 15-20 (1964). (K. J. Arrow) 32 #8427

A note on method of moments applied to a mixture of two logistic populations. *J. Maharaja Sayajirao Univ. Baroda* 12 (1963), *no.* 3, 21-22 (1964). (K. J. Arrow) 32 #8440

(with Khatri, C. G.) Maximum likelihood estimation of truncated chi-distributed radial error from grouped observations. *Vidya* 6 (1963), *no.* 2, 120-124. (From the authors' introduction) 40 #2187; erratum, 41 p. 1964

(with Gupta, Shanti S.) Exact moments and percentage points of the order statistics and the distribution of the range from the logistic distribution. *Ann. Math. Statist.* 36 (1965), 907-920. (E. J. Gumbel) 31 #4102

Distribution of midrange and semirange from logistic population. *J. Indian Statist. Assoc.* 3 (1965), 185-188. 33 #5022

(with Khatri, C. G.) A method of fitting the regression curve $E(y) = \alpha + \delta x + \beta\rho^x$. *Technometrics* 7 (1965), 59-65. (Authors' summary) 30 #4349

On the bivariate moments of order statistics from a logistic distribution. *Ann. Math. Statist.* 37 (1966), 1002-1010. (C. G. Khatri) 33 #1917

A note on Craig's paper on the minimum of binomial variates. *Biometrika* 53 (1966), 614-615. (C. C. Craig) 35 #3815

(with Gupta, S. S.; Qureishi, A. S.) Best linear unbiased estimators of the parameters of the logistic distribution using order statistics. *Technometrics* 9 (1967), 43-56. (Benjamin Epstein) 35 #7531

Correction to "Distribution of definite and of indefinite quadratic forms from a non-central normal distribution". *Ann. Math. Statist.* 39 (1968), 289. (Editors) 36 #3431

Note on moments of a logistic order statistics. *Ann. Math. Statist.* 41 (1970), 2150-2153. 42 #2615

Distribution theory of a positive definite quadratic form with matrix argument. *Ann. Math. Statist.* 41 (1970), 629-697. (P. S. Dwyer) 41 #4709

Shah, G. M.

On the zeros of Van Vleck polynomials. *Proc. Amer. Math. Soc.* 19 (1968), 1421-1426. (Y. L. Luke) 37 #6511

Monotonic variation of the zeros of Stieltjes and Van Vleck polynomials. *J. Indian Math. Soc. (N.S.)* 33 (1969), 85-92 (1970). (R. P. Soni) 42 #7960

Confluence of the singularities of the generalized Lamé's differential equation. *J. Natur. Sci. and Math.* 9 (1969), 133-147. (C. J. Bouwkamp) 41 #5673

On the zeros of Stieltjes and Van Vleck polynomials. *Illinois J. Math.* 14 (1970), 522-528. (M. E. Muldoon) 41 #8733

On some starlike and convex functions. *Trans. Amer. Math. Soc.* 154 (1971), 83-91. (E. P. Merkes) 42 #4721

Shah, Jayant M.

Two-dimensional polynomial splines. *Numer. Math.* 15 (1970), 1-14. (D. C. Handscomb) 42 #5421

Shah, K. R.

(with Roy, J.) Recovery of interblock information. *Sankhyā Ser. A* 24 (1962), 269-280. (J. Sacks) 30 #2631

An estimate of inter-group variance in one and two-way designs *Sankhyā Ser. A* 24 (1962), 281-286. (J. Sacks) 30 #2630

Use of inter-block information to obtain uniformly better estimators. *Ann. Math. Statist.* 35 (1964), 1064-1078. (J. Sacks) 29 #2920

Analysis of two-period experiments. *J. Indian Statist. Assoc.* 2 (1964), 97-108. (S. Addelman) 30 #4361

On a local property of combined inter- and intra-block estimators. *Sankhyā Ser. A* 26 (1964), 87-90. (J. Sacks) 30 #5445

Uniformly better combined estimators in factorial arrangements with confounding. *J. Amer. Statist. Assoc.* 62 (1967), 638-642. (Author's summary) 35 #5059

Analysis of Room's square design. *Ann. Math. Statist.* 41 (1970), 743-745. (K. Yamamoto) 42 #2605

Shah, K. Tahir. See Tahir Shah, K.

Shah, Manilal

Inversion of a convolution transform whose kernel is a Hermite polynomial. (Arabic summary) *Bull. College Sci. (Baghdad)* 10 (1967), 39-42 (1968). (Z. Ditzian) 39 #4612

Certain integrals involving the product of two generalised hypergeometric polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 79-96. (Editors) 39 #4454

On applications of Mellin's inversion formula to hypergeometric polynomials. *Labdev—J. Sci. Tech. Part A* 6 (1968), 19-22. (J. W. Brown) 40 #409

Some integrals involving generalised hypergeometric polynomials. I. *Labdev—J. Sci. Tech. Part A* 6 (1968), 70-74. (J. W. Brown) 40 #410

On the derivatives of the product of two generalized hypergeometric polynomials. *Labdev—J. Sci. Tech. Part A* 6 (1968), 174-182. (J. W. Brown) 40 #411

Integrals involving the product of the generalized hypergeometric polynomials and their derivatives with other orthogonal polynomials. *Labdev—J. Sci. Tech. Part A* 6 (1968), 183-190. (J. W. Brown) 40 #412

Expansion formula for a generalized hypergeometric polynomial in series of Hermite polynomial. *Proc. Indian Acad. Sci. Sect. A* 68 (1968), 324-328. (B. R. Bhonsle) 39 #510

Some finite series of generalised hypergeometric polynomials. *Vidya* 11 (1968), *no.* 1, 233-241. (Author's summary) 39 #7160; erratum, 41, p. 1963

Integral representations for a generalised hypergeometric polynomial. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 121-128. (K. N. Srivastava) 40 #5914

Certain relations involving generalized hypergeometric and Tchebichef polynomials of the first kind. *Comment. Math. Univ. St. Paul.* 17 (1969), 73-81. (H. M. Srivastava) 40 #4492

Integrals involving the product of the generalized hypergeometric polynomials and their derivatives with other orthogonal polynomials. *Gaṇita* 20 (1969), *no.* 2, 35-45. (P. N. Rathie) 42 #3321; erratum, 44, p. 1631

Transformation of a finite series involving a generalized hypergeometric polynomial. *J. Natur. Sci. and Math.* 9 (1969), 41-46. (M. Nassif) 40 #5915

Some results on Fourier series for *H*-functions. *J. Natur. Sci. and Math.* 9 (1969), 121-131. (C. Fox) 40 #2924

On some results of the *H*-functions involving Hermite polynomials. *J. Natur. Sci. and Math.* 9 (1969), 223-233. (R. K. Saxena) 41 #8725

On some results involving generalized hypergeometric and Tchebichef polynomials of the second kind. *J. Natur. Sci. and Math.* 9 (1969), 235-247. (R. K. Saxena) 41 #8716

On applications of Mellin's and Laplace's inversion formulae to *H*-functions. *Labdev J. Sci. Tech. Part A* 7 (1969), 10-17. (Author's summary) 39 #4457

Expansion formula for a generalized hypergeometric polynomial in series of Jacobi polynomial. II. *Math. Education* 3 (1969), 10-13. (Editors) 43 #576

Some integrals involving *H*-functions. I. *Math. Education* 3 (1969), 82-88. (S. K. Bose) 42 #552

Some results of generalized hypergeometric and Jacobi polynomials with their applications. *Math. Education* 3 (1969), 128-133. (R. G. Langebartel) 42 #548

Some Fourier series for generalized hypergeometric polynomials. *Portugal. Math.* 28 (1969), 7-19. (J. P. Singhal) 43 #7672

On some results involving generalized hypergeometric polynomials. *Proc. Cambridge Philos. Soc.* 65 (1969), 87-92. (L. J. Slater) 38 #350

Some infinite integrals involving Whittaker functions and generalized hypergeometric polynomials, with their applications. *Proc. Cambridge Philos Soc.* 65 (1969), 483-488. (B. R. Bhonsle) 38 #3474

Some results on the *H*-function involving the generalized Laguerre polynomial. *Proc. Cambridge Philos Soc.* 65 (1969), 713-720. (J. A. Donaldson) 39 #497

Some results on generalized hypergeometric polynomials. *Proc. Cambridge Philos. Soc.* 66 (1969), 95-104. (Editors) 40 #413

On some results involving generalized hypergeometric and Gegenbauer (ultraspherical) polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 493-502. (R. K. Saxena) 43 #7685

On some results involving *H*-functions and associated Legendre functions. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 503-507. (R. K. Saxena) 43 #7680

Expansion formula for a generalized hypergeometric polynomial in series of Laguerre polynomials. *Ricerca (Napoli)* (2) 20 (1969), *settembre-dicembre*, 26-30. (J. W. Brown) 40 #7489

On some relation of *H*-functions and Čebyšev polynomials of the first kind. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 61-67. (V. M. Bhise) 43 #7681

On the derivatives of the product of two generalised hypergeometric polynomials. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 99-109. (Editors) 44 #4254

On applications of Mellin's and Laplace's inversion formulae to hypergeometric polynomials. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 151-156. (B. M. Agrawal) 44 #485

Fourier series for generalized Meijer functions. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 293-313. (J. Ławrynowicz) 44 #2958

On some relations of Fox's *H*-functions and Tchebichef polynomials of the second kind. (Arabic summary) *Bull. College Sci. (Baghdad)* 11 (1970), 34-43. (E. L. Koh) 42 #2057

On Rodrigues' formulae for a generalized hypergeometric polynomial and their applications. *Comment. Math. Univ. St. Paul.* 18 (1970), 19-29. (Editors) 41 #3822

Heat conduction, generalized Meijer function and Hermite polynomials. *Comment. Math. Univ. St. Paul.* 18 (1970), 81-94. (R. C. Varma) 42 #3322

Some results involving generalized hypergeometric polynomials and generalized Meijer function of two variables. *Comment. Math. Univ. St. Paul.* 18 (1970), 95-110. (K. C. Gupta) 42 #3323

Expansions of Bessel functions in series of circular functions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 59-62. (M. Nassif) 43 #3512

Some results of generalized hypergeometric polynomial and Bessel functions with their applications. II. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 2, 185-191. (R. K. Saxena) 44 #4251

Some results of generalized hypergeometric polynomial and Bessel functions. *Ricerca (Napoli)* (2) 21 (1970), *settembre-dicembre*, 16-25. (R. K. Saxena) 44 #4252

Some results of generalized hypergeometric polynomial and Bessel functions with their applications. I. *Ricerca (Napoli)* (2) 21 (1970), *maggio-agosto*, 28-36. (R. K. Saxena) 44 #4253

On product of two generalized hypergeometric polynomials. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 13 (1970), 67-72. (V. M. Bhise) 43 #6468

On the Rodrigues' formulae for a generalized hypergeometric polynomial and their applications. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 13 (1970), 73-83. (Author's summary) 43 #3507; erratum, 43 p. 1698

Some results involving generalized Meijer functions associated with Gegenbauer (ultraspherical) polynomials. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 3, 387-400. (A. K. Agarwal) 44 #495

Shah, Swarupchand M.

On the upper bound for the number of blocks in balanced incomplete block designs having a given number of treatments common with a given block. *J. Indian Statist. Assoc.* 1 (1963), 219-220. (J. Sacks) 29 #2919

The distribution of the quotient of the medians in samples from rectangular population. *Vidya* 6 (1963), *no.* 1, 131-138. (Author's introduction) 40 #2190; erratum, 41, p. 1964

Estimation of parameters of Pearson type III populations from singly and doubly truncated samples. *Vidya* 6 (1963), *no.* 2, 148-157. (Author's summary) 40 #2189; erratum, 41, p. 1964

(with Gray, Alfred) A note on entire functions and a conjecture of Erdős. II. *J. Analyse Math.* 12 (1964), 83-104. (A. G. Azpeitia) 29 #6016

Use of a priori knowledge in the estimation of a parameter from double samples. *J. Indian Statist. Assoc.* 2 (1964), 41-51. (H. D. Brunk) 29 #688

(with Parikh, N. T.) Moments of singly and doubly truncated standard bivariate normal distribution. *Vidya* 7 (1964), *no.* 1, 81-91. (Authors' summary) 39 #7707; erratum, 41, p. 1964

Bounds for the number of common treatments between any two blocks of certain PBIB designs. *Ann. Math. Statist.* 36 (1965), 337-342. (S. Addelman) 30 #677

(with Gray, Alfred) Asymptotic values of holomorphic functions of irregular growth. *Bull. Amer. Math. Soc.* 71 (1965), 747-749. (A. G. Azpeitia) 31 #3614

(with Ramanujan, P. B.) Summation of a certain series. *J. Indian Math. Soc. (N.S.)* 29 (1965), 187-195. (K. Endl) 35 #2463

(with Gray, Alfred) Holomorphic functions with gap power series. *Math. Z.* 86 (1965), 375-394. (M. E. Noble) 33 #7501

(with Suryanarayana, P.) Approximation of continuous functions by power series with polynomial coefficients. *Numer. Math.* 7 (1965), 420-425. (G. Meinardus) 33 #6220

A note on balanced incomplete block designs. *Vidya* 8 (1965), *no.* 2, 215-218. (V. K. Rohatgi) 40 #54; erratum, 41, p. 1964

(with Jaiswal, M. C.) Estimation of parameters of doubly truncated normal distribution from first four sample moments. *Ann. Inst. Statist. Math.* 18 (1966), 107-111. 33 #5034

On the block structure of certain partially balanced incomplete block designs. *Ann. Math. Statist.* 37 (1966), 1016-1020. (H. Hanani) 33 #1935

On estimating the parameter of a doubly truncated binomial distribution. *J. Amer. Statist. Assoc.* 61 (1966), 259-263. (Author's summary) 33 #809

(with Gray, Alfred) Holomorphic functions with gap power series. II. *J. Math. Anal. Appl.* 13 (1966), 370-382. (M. E. Noble) 33 #7502

(with Gray, Alfred) Holomorphic functions with gap power series. III. *J. Math. Mech.* 16 (1966), 297-309. (M. E. Noble) 34 #316

(with Gray, Alfred) Asymptotic values of a holomorphic function with respect to its maximum term. *Pacific J. Math.* 18 (1966), 111-120. (J. M. Anderson) 33 #4275

On triangular numbers which are sums of two triangular numbers. *Vidya* 9 (1966), *no.* 2, 161-163. (Author's introduction) 40 #2601; erratum, 41, p. 1964

Comparison of the bounds for the number of common treatments between two blocks of certain two associates PBIB designs. *Vidya* 9 (1966), *no.* 2, 167-170. (V. K. Rohatgi) 40 #3660; erratum, 41, p. 1964

Entire functions with no finite deficient value. *Arch. Rational Mech. Anal.* 26 (1967), 179-187. (M. E. Noble) 36 #383

A note on the block structure of incomplete block designs. *J. Indian Statist. Assoc.* 5 (1967), 13-15. (M. J. Karson) 39 #6463

(with Halbgewachs, R. D.) Trigonometric sums and Frensnel-type integrals. *Proc. Indian Acad. Sci. Sect. A* 65 (1967), 227-232. (D. Gaier) 35 #3855

(with Gray, Alfred) The behavior of an entire function as determined by its maximum term. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 202-209. *Amer. Math. Soc., Providence, R. I.,* 1968. (A. G. Azpeitia) 38 #3435

Trigonometric series with nonnegative partial sums. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 386-391. *Amer. Math. Soc., Providence, R. I.,* 1968. (S. Izumi) 38 #6293

(with Bell, Richard A.) Oscillating polynomials and approximations to fractional powers of x. *J. Approximation Theory* 1 (1968), 269-274. (A. K. Varma) 38 #3670

(with Chidambaraswamy, J.) Trigonometric series with nonnegative partial sums. *J. Reine Angew. Math.* 229 (1968), 163-169. (S. Izumi) 36 #6861

Entire functions satisfying a linear differential equation. *J. Math. Mech.* 18 (1968/69), 131-136. (D. V. V. Wend) 37 #2994

(with Gray, Alfred) Borel exceptional values of entire functions. *Math. Ann.* 175 (1968), 185-188. (J. Clunie) 36 #5349

(with Rees, Charles) On the absolute Nörlund summability of a Fourier series. *Math. Z.* 104 (1968), 388-393. (F. C. Hsiang) 37 #3275

Entire functions of bounded index. *Proc. Amer. Math. Soc.* 19 (1968), 1017-1022. (Hari Shankar) 38 #6070

(with Kurtz, L. C.) On the L^1 norm and the mean value of a trigonometric series. *Proc. Amer. Math. Soc.* 19 (1968), 1023-1028. (J. Bryant) 37 #6663

(with Bell, R. A.) Oscillating polynomials and approximations to $|x|$. *Publ. Ramanujan Inst. No.* 1 (1968/69), 167-177. (L. L. Schumaker) 42 #3468

(with Lee, Boo-sang) The type of an entire function satisfying a linear differential equation. *Arch. Math. (Basel)* 20 (1969), 616-622. (D. V. V. Wend) 41 #544

Univalent derivatives of entire functions of slow growth. *Arch. Rational Mech. Anal.* 35 (1969), 259-266. (T. Kövari) 40 #352

(with Trimble, S. Y.) Univalent functions with univalent derivatives. *Bull. Amer. Math. Soc.* 75 (1969), 153-157. (F. R. Keogh) 39 #433 (E)

(with Trimble, S. Y.) Erratum to "Univalent functions with univalent derivatives". *Bull. Amer. Math. Soc.* 75 (1969), 888. (F. R. Keogh) 39 #4373

Meromorphic functions with one deficient value. *J. Austral. Math. Soc.* 10 (1969), 355-358. (Fred Gross) 41 #3774

(with Trimble, S. Y.) Univalent functions with univalent derivatives. III. *J. Math. Mech.* 19 (1969/70), 451-460. (F. R. Keogh) 40 #4438

(with Marić, V.) Entire functions defined by gap power series and satisfying a differential equation. *Tôhoku Math. J.* (2) 21 (1969), 621-631. (L. R. Sons) 41 #3763 (with Trimble, S. Y.) Univalent functions with univalent derivatives. II. *Trans. Amer. Math. Soc.* 144 (1969), 313-320. (F. R. Keogh) 40 #2841

(with Gopala Krishna, J.) Functions of bounded indices in one and several complex variables. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 223-235. *Ohio Univ. Press, Athens, Ohio,* 1970. (Fred Gross) 42 #6228

(with Shankar, H.) Meromorphic functions with one Valiron deficient value. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 343-351. *Ohio Univ. Press, Athens, Ohio,* 1970. (D. F. Shea) 43 #7638

(with Lee, Boo-sang) On the growth of entire functions of bounded index. *Indiana Univ. Math. J.* 20 (1970/71), 81-87. (L. R. Sons) 41 #3766

(with Lee, Boo-sang) An inequality involving the Bessel function and its derivatives. *J. Math. Anal. Appl.* 30 (1970), 144-156. (F. W. J. Olver) 41 #527

Entire functions of unbounded index and having simple zeros. *Math. Z.* 118 (1970), 193-196. (Fred Gross) 42 #7896

(with Pugh, W. J.) On the growth of entire functions of bounded index. *Pacific J. Math.* 33 (1970), 191-201. (L. R. Sons) 41 #3767; erratum, 42, p. 1824

(with Lee, Boo-sang) Inequalities satisfied by entire functions and their derivatives. *Trans. Amer. Math. Soc.* 149 (1970), 109-117. (Fred Gross) 41 #2006

(with Trimble, S. Y.) Entire functions with univalent derivatives. *J. Math. Anal. Appl.* 33 (1971), 220-229. (J. Nikolaus) 43 #6435

Shah, V. M.

On the absolute convergence of a series associated with a lacunary Fourier series. *Indian J. Math.* 11 (1969), 111-114. (Yung-ming Chen) 43 #802

On the convergence of a lacunary Fourier series and its conjugate series. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 5-7. (A. Meir) 43 #3725

Shah, Y. K.

(with Patel, I. D.) Test procedures for homogeneity of generalized power series distribution and a test of inflation for an inflated power series distribution. *Vidya* 11 (1968), *no.* 1, 186-192. (G. P. Patil) 41 #2826; erratum 41, p. 1966

Shah Dao-shing. See Hsia Tao-hsing.

Shahin, Jamal K.

(with Hsiung, Chuan-chih) Affine differential geometry of closed hypersurfaces. *Proc. London Math. Soc.* (3) 17 (1967), 715-735. (L. A. Santaló) 36 #2069

Some integral formulas for closed hypersurfaces in Euclidean space. *Proc. Amer. Math. Soc.* 19 (1968), 609-613. (L. A. Santaló) 37 #3490

Shahinian, A. L. See Šaginjan, A. L.

Shah Khan, Rais. See Khan, Rais Shah.

Shahshahani, S.

Second order ordinary differential equations on differentiable manifolds. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 265-272. *Amer. Math. Soc., Providence, R. I.,* 1970. (K.-T. Chen) 41 #7720

Shah Tao-shing. See Hsia Tao-hsing.

Shail, Ronald

Some thermoelastic stress distributions in an infinite solid and a thick plate containing penny-shaped cracks. *Mathematika* 11 (1964), 102-118. (W. D. Collins) 30 #2773

On some steady state thermoelastic stress distributions in a slab. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 303-310. (P. Choudhury) 33 #3545

A note on the steady state distribution of thermal stress in circular cylinders and thick walled tubes. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 597-602. (W. D. Kroll) 32 #8610

On axially symmetric stress distributions in solids under torsion containing spherical cracks and cavities. *J. Math. Mech.* 14 (1965), 143-160. (B. A. Boley) 30 #4421

On the forced torsional oscillations of an elastic cylinder. *Proc. Cambridge Philos. Soc.* 61 (1965), 955-967. (W. E. Williams) 32 #1956

On addition theorems for spheroidal harmonics with some applications. *Mathematika* 14 (1967), 132-141. (Y. L. Luke) 36 #4038

The impulsive Reissner-Sagoci problem. *J. Math. Mech.* 19 (1969/70), 709-716. (R. L. Fosdick) 40 #6834

Shaker, Richard J.

(with Kaplansky, Irving) Abstract quadratic forms. *Canad J. Math.* 21 (1969), 1218-1233. (G. Whaples) 40 #2701

Shakeshaft, Robin

The analytical and recursive evaluation of two-center integrals. *J. Computational Phys.* 5 (1970), 345-349. (M. Dutta) 41 #7179

Shakhbazyan, V. A. See Šahbazjan, V. A.

Shakhov, E. M. See Šahov, E. M.

Shakhov, Iu. N. See Šahov, Ju. N.

Shakin, C. M.

(with da Providencia, J.) Some aspects of short-range correlations in nuclei. *Ann. Physics* 30 (1964), 95-118. (S. A. Moszkowski) 32 #7069

Shakin, Carl

(with Waghmare, Yeshwant R.) Foundations for Hartree-Fock calculations with singular potentials. *Phys. Rev. Lett.* 16 (1966), 403-404. (L. M. Delves) 33 #5305

Shakun, Melvin F.

Multivariate acceptance sampling procedures for general specification ellipsoids. *J. Amer. Statist. Assoc.* 60 (1965), 905-913. 32 #3240

Shalayevsky, O. V. See Šalaevskiĭ, O. V.

Shale, David

(with Stinespring, W. Forrest) States of the Clifford algebra. *Ann. of Math.* (2) 80 (1964), 365-381. (Y. Kato) 29 #3160

(with Stinespring, W. Forrest) Spinor representations of infinite orthogonal groups. *J. Math. Mech.* 14 (1965), 315-322. (R. J. Blattner) 30 #3377

(with Stinespring, W. Forrest) Continuously splittable distributions in Hilbert space. *Illinois J. Math.* 10 (1966), 574-578. (R. Fischler) 33 #6675

(with Stinespring, W. Forrest) Integration over non-Euclidean geometries of infinite dimension. *J. Math. Mech.* 16 (1966), 135-146. (J. Eells) 33 #7485

Invariant integration over the infinite dimensional orthogonal group and related spaces. *Trans. Amer. Math. Soc.* 124 (1966), 148-157. (P. C. Deliyannis) 39 #409

(with Stinespring, W. Forrest) The quantum harmonic oscillator with hyperbolic phase space. *J. Functional Analysis* 1 (1967), 492-502. (A. Kihlberg) 36 #3545

(with Stinespring, W. Forrest) Wiener processes. *J. Functional Analysis* 2 (1968), 378-394. (R. M. Dudley) 38 #1734

(with Stinespring, W. Forrest) Wiener processes. II. *J. Functional Analysis* 5 (1970), 334-353. (R. M. Dudley) 41 #9352

Shalhevet, Jacqueline

On the minimal basis of a completely separating matrix. *Israel J. Math.* 2 (1964), 155-169. (K. Yamamoto) 34 #4150

Shalika, J. A.

(with Sally, P. J., Jr.) Characters of the discrete series of representations of SL(2) over a local field. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1231-1237. (A. Dress) 38 #5994

On the space of cusp forms of a $\mathcal{P}$-adic Chevalley group. *Ann. of Math.* (2) 92 (1970), 262-278. (J. E. Humphreys) 42 #423

Shalom, Yaakov Bar. See Bar-Shalom, Yaakov.

Shalvi, Shlomo

(with Sivan, Raphael) On the existence of optimal solutions for the linear system quadratic cost problem. *IEEE Trans. Automatic Control* AC-13 (1968), 188-191. (Authors' summary) 38 #6869

Sham, L. J.

Free energy of an anharmonic crystal. *Phys. Rev.* (2) 139 (1965), A1189-A1193. (A. A. Maradudin) 32 #7161

(with Kohn, W.) Self-consistent equations including exchange and correlation effects. *Phys. Rev.* (2) 140 (1965), A1133-A1138. (H. L. Frisch) 32 #7154

Shamaly, A.

(with Capri, A. Z.) First-order wave equation for integral spin. (Italian and Russian summaries) *Nuovo Cimento B* (11) 2 (1971), 236-253. (S. Datta Majumdar) 44 #6237

Shaman, Paul

(with Tick, Leo Joseph) Sampling rates and appearance of stationary Gaussian processes. *Technometrics* 8 (1966), 91-106. (Authors' summary) 33 #1900

On the inverse of the covariance matrix of a first order moving average. *Biometrika* 56 (1969), 595-600. 40 #8208

Shamash, Jack

(with Shult, E.) On groups with cyclic Carter subgroups. *J. Algebra* 11 (1969), 564-597. (T. R. Berger) 39 #6988

The Poincaré series of a local ring. *J. Algebra* 12 (1969), 453-470. (R. M. Fossum) 39 #2751

On the Carter subgroup of a solvable group. *Math. Z.* 109 (1969), 288-310. (E. Schenkman) 39 #5698

The Poincaré series of a local ring. II. *J. Algebra* 17 (1971), 1-18. (R. M. Fossum) 42 #4541

The Poincaré series of a local ring. III. *J. Algebra* 17 (1971), 153-170. (R. M. Fossum) 42 #4542

The Poincaré series of a local ring. IV. *J. Algebra* 19 (1971), 116-124. (R. M. Fossum) 43 #7432

Shamihoke, A. C.

Normal curvature of a vector field in a hypersurface of a generalised Finsler space. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 27 (1962), 9-14. (A. Kawaguchi) 32 #424

Subspaces of a generalised Finsler space. I. *Gaṇita* 14 (1963), 43-59. (H. A. Eliopoulos) 30 #1478

A note on curves in a four space with non-positive-definite metric-form. *Math. Seminar* 3, 81-84 (1963). (J. Verdina) 42 #3723

Parallelism and covariant differentiation in a generalized Finsler space of n dimensions. *Riv. Mat. Univ. Parma* (2) 5 (1964), 189-200. (H. Rund) 33 #6563

Shamir, Eliahu

Reduced Hilbert transforms and singular integral equations. *J. Analyse Math.* 12 (1964), 277-305. (J. Peetre) 29 #2617

Multipliers of Fourier transform in a half-space. *Bull. Amer. Math. Soc.* 71 (1965), 165-167. (J. Peetre) 30 #2296

On sequential languages and two classes of regular events. *Z. Phonetik Sprachwiss. Kommunikat.* 18 (1965), 61-69. (G. F. Rose) 32 #1122

Wiener-Hopf type problems for elliptic systems of singular integral equations. *Bull. Amer. Math. Soc.* 72 (1966), 501-504. (R. C. MacCamy) 33 #3064

Solutions of Riemann-Hilbert systems with piecewise continuous coefficients in L^p. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1000-1003. (A. J. Lohwater) 34 #3263

A remark on Mikhlin-Hörmander multipliers theorem. *J. Math. Anal. Appl.* 16 (1966), 104-107. (W. Littman) 34 #3196

A representation theorem for algebraic and context-free power series in noncommuting variables. *Information and Control* 11 (1967), 239-254. (B. A. Galler) 37 #3880

Elliptic systems of singular integral operators. I. The half-space case. *Trans. Amer. Math. Soc.* 127 (1967), 107-124. (T. Gegelia) 35 #5981

Regularization of mixed second-order elliptic problems. *Israel J. Math.* 6 (1968), 150-168. (R. Beals) 39 #629

(with Rhodes, John) Complexity of grammars by group theoretic methods. *J. Combinatorial Theory* 4 (1968), 222-239. (M. A. Harrison) 36 #2447

Some inherently ambiguous context-free languages. *Information and Control* 18 (1971), 355-363. (R. E. Stearns) 44 #3812

Shamma, S. E.

(with Karp, S. N.) A generalization of separability in boundary value problems. *SIAM J. Appl. Math.* 20 (1971), 536-546. (Y. I. Kannai) 44 #7162

Shampine, Lawrence F.

Some L_2 Markoff inequalities. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 155-158. (M. J. O. Strutt) 33 #1515

The condition of certain matrices. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 333-334. (John Todd) 33 #1958

(with Roark, A. L.) On a paper of Roark and Wing. *Numer. Math.* 7 (1965), 394-395. (D. Elliott) 32 #8532

An inequality for the derivatives on nonnegative polynomials. *Amer. Math. Monthly* 73 (1966), 1090-1092. (M. Skalsky) 34 #6005

Note on a paper of Bailey and Waltman. *Arch. Rational Mech. Anal.* 22 (1966), 308-309. (P. Waltman) 33 #2864

(with Bailey, Paul; Waltman, Paul) Existence and uniqueness of solutions of the second order boundary value problem. *Bull. Amer. Math. Soc.* 72 (1966), 96-98. (W. J. Coles) 32 #1392

An inequality of E. Schmidt. *Duke Math. J.* 33 (1966), 145-150. (A. E. Danese) 32 #4433

(with Bailey, Paul; Waltman, Paul) The first and second boundary value problems for nonlinear second order differential equations. *J. Differential Equations* 2 (1966), 399-411. (T. L. Sherman) 34 #7871

(with Bailey, Paul; Waltman, Paul) Nonlinear second order boundary value problems: Existence and regions of uniqueness. *J. Math. Anal. Appl.* 14 (1966), 433-444. (S. P. Diliberto) 32 #5969

Monotone iterations and two-sided convergence. *SIAM J. Numer. Anal.* 3 (1966), 607-615. (L. Collatz) 35 #6329

Some nonlinear boundary value problems. *Arch. Rational Mech. Anal.* 25 (1967), 123-134. (M. Wachman) 35 #6904

Some nonlinear eigenvalue problems. *J. Math. Mech.* 17 (1967/68), 1065-1072. (H. H. Schaefer) 37 #1780

* (with Bailey, Paul B.; Waltman, Paul E.) Nonlinear two point boundary value problems. Mathematics in Science and Engineering, Vol. 44. *Academic Press, New York-London,* 1968. xiv + 171 *pp.* (W. M. Whyburn) 37 #6524

Contraction mappings for nonlinear boundary value problems. (German summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 205-214. (Author's summary) 38 #2957

Over-determined boundary value problems. *J. Math. Anal. Appl.* 23 (1968), 117-120. (D. Elliott) 37 #3247

(with Bailey, Paul B.) On shooting methods for two-point boundary value problems. *J. Math. Anal. Appl.* 23 (1968), 235-249. (C. W. Gear) 37 #3772

(with Bailey, Paul B.) Concerning periodic solutions of $y'' + f(t,y,y') = 0$. *J. Math. Anal. Appl.* 23 (1968), 558-574. (R. A. Struble) 37 #6542

(with Roark, A. L.) On the eigenproblem for displacement integral equations. *Numer. Math.* 12 (1968), 170-179. (D. Elliott) 38 #6786

Error bounds and variational methods for nonlinear boundary value problems. *Numer. Math.* 12 (1968), 410-415. (A. O. Garder, Jr.) 39 #2339

Boundary value problems for ordinary differential equations. *SIAM J. Numer. Anal.* 5 (1968), 219-242. (D. F. Mayers) 37 #7093

(with Scott, M. R.; Wing, G. M.) Invariant imbedding and the calculation of eigenvalues for Sturm-Liouville systems. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 10-23. (F. Perrin) 39 #7829

Existence and uniqueness for nonlinear boundary value problems. *J. Differential Equations* 5 (1969), 346-351. (J. W. Bebernes) 39 #534

(with Bailey, Paul B.) Existence from uniqueness for two point boundary value problems. *J. Math. Anal. Appl.* 25 (1969), 569-574. (James S. Muldowney) 39 #530

(with Wing, G. M.) Existence and uniqueness of solutions of a class of nonlinear elliptic boundary value problems. *J. Math. Mech.* 19 (1969/70), 971-979. (Z. C. Motteler) 41 #3996

Existence of solutions for certain nonlinear boundary-value problems. *J. Mathematical Phys.* 10 (1969), 1177-1178. (Jagdish Chandra) 39 #5865

(with Watts, H. A.) Block implicit one-step methods. *Math. Comp.* 23 (1969), 731-740. (J. D. Lambert) 41 #9445

Boundary value problems for ordinary differential equations. II. Patch bases and monotone methods. *SIAM J. Numer. Anal.* 6 (1969), 414-431. (D. F. Mayers) 41 #6414

(See also Walter, Wolfgang, 42 #6391)

Efficiency of a procedure for near-minimax approximation. *J. Assoc. Comput. Mach.* 17 (1970), 655-660. (L. W. Johnson) 43 #7040

(with Thompson, R. J.) Difference methods for nonlinear first-order hyperbolic systems of equations. *Math. Comp.* 24 (1970), 45-56. (I. O. Bohachevsky) 41 #7874

(with Burgmeier, J. W.; Russell, R. D.) Integral equations with transform kernels and the eigenproblem $KCx = \lambda x$. *Numer. Math.* 17 (1971), 253-267. (P. Linz) 44 #6142

(with Russell, R. D.) Existence of eigenvalues of integral equations. *SIAM Rev.* 13 (1971), 209-219. (P. M. Anselone) 44 #7232

Shams ad-Dīn as-Samarqandī

(See Rozenfel′d, B. A.; Juškevič, A. P., 32 #1092 and Ahmedov, A., 44 #11)

Shams ad-Dīn Muḥammad ibn Ashraf al-Ḫussaīn as-Samarḳandī. See Shams ad-Dīn as Samarqandī.

Shanbhag, D. N.

On queues with Poisson service time. *Austral. J. Statist.* 5 (1963), 57-61. (D. V. Lindley) 32 #514

Further results for the queueing system $GI/M/1$. *J. Karnatak Univ. Sci.* 9-10 (1964/65), 189-195. (From the author's introduction) 32 #6574

A note on queueing systems with Erlangian service time distributions. *Ann. Math. Statist.* 36 (1965), 1574-1578. (D. V. Lindley) 31 #5252

On the asymptotic behaviour of a single-server queue. *Austral. J. Statist.* 7 (1965), 48-53. (D. V. Lindley) 32 #6575

On a single server queue. *Calcutta Statist. Assoc. Bull.* 14 (1965), 163-166. (D. V. Lindley) 34 #3680

On congestion systems with negative exponential desired service time distributions. *Ann. Inst. Statist. Math.* 18 (1966), 223-228. (L. Takács) 35 #7437

On infinite server queues with batch arrivals. *J. Appl. Probability* 3 (1966), 274-279. (L. Takács) 34 #878

(with Bhat, B. R.) Some distribution and moment formulae for the regular Markov chain. *J. Indian Statist. Assoc.* 4 (1966), 86-93. (P. Whittle) 35 #1082

Transition probabilities avoiding certain states of a Markov chain. *J. Karnatak Univ. Sci.* 11 (1966), 250-260. (I. J. Good) 35 #4994

On a generalized queueing system with Poisson arrivals. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 456-458. (J. F. C. Kingman) 34 #8507

On the independence of quadratic forms. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 582-583. (Author's summary) 34 #8532

On some inequalities satisfied by the gamma function. *Skand. Aktuarietidskr.* 1967, 45-49. (R. K. Saxena) 37 #6490

A note on the queueing system $GI/G/\infty$ *Proc. Cambridge Philos. Soc.* 64 (1968), 477-479. (D. J. Daley) 36 #6026

Another characteristic property of the Poisson distribution. *Proc. Cambridge Philos. Soc.* 68 (1970), 167-169. (R. Cuppens) 41 #7740

An extension of Lukacs's result. *Proc. Cambridge Philos. Soc.* 69 (1971), 301-303. (C. G. Esseen) 42 #8540

Shandor, S. See Sandor, Stefan.

Shane, Harold D.

(with Puri, Madan L.) Rank order tests for multivariate paired comparisons. *Ann. Math. Statist.* 40 (1969), 2101-2117. (A. P. Basu) 40 #3662 (with Puri, Madan L.) Statistical inference in incomplete blocks designs. With discussion by H. T. David. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 131-155. *Cambridge Univ. Press, London,* 1970. (A. P. Basu) 43 #2809

Shaneson, Julius L.

Wall's surgery obstruction groups for $Z \times G$, for suitable groups G. *Bull. Amer. Math. Soc.* 74 (1968), 467-471. (J. Siegel) 36 #7149

Embeddings with codimension two spheres in spheres and H-cobordisms of $S^1 \times S^3$. *Bull. Amer. Math. Soc.* 74 (1968), 972-974. (H. Suzuki) 37 #5887

(See also Hudson, J. F. P., 40 #2094)

Wall's surgery obstruction groups for $G \times Z$. *Ann. of Math.* (2) 90 (1969), 296-334. (R. Schultz) 39 #7614

(with Lashof, Richard K.) Classification of knots in codimension two. *Bull. Amer. Math. Soc.* 75 (1969), 171-175. (D. W. L. Sumners) 39 #3508

(with Hsiang, W. C.) Fake tori, the annulus conjecture, and the conjectures of Kirby. *Proc. Nat. Acad. Sci. U.S.A.* 62 (1969), 687-691. (B. G. Casler) 42 #5267

(with Hsiang, Wu-Chung) Fake tori. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga., 1969), pp.* 18-51. *Markham, Chicago, Ill.,* 1970. (B. G. Casler) 43 #6930

Product formulas for $L_n(\pi)$. *Bull. Amer. Math. Soc.* 76 (1970), 787-791. (R. Schultz) 41 #6232

Non-simply-connected surgery and some results in low dimensional topology. *Comment. Math. Helv.* 45 (1970), 333-352. (R. Schultz) 43 #1200

Shanholt, Gerald A.

Eventual stability for Lipschitz functional differential systems. *Bell System Tech. J.* 49 (1970), 1905-1909. (D. Bobrowski) 42 #3369

Stability of solutions of weakly nonlinear functional differential equaitons. *J. Math. Anal. Appl.* 32 (1970), 678-683. (B. Stephan) 42 #3384

Shanin, N. A. See Šanin, N. A.

Shank, Herbert S.

(with Hartmanis, J.) On the recognition of primes by automata. *J. Assoc. Comput. Mach.* 15 (1968), 382-389. (Authors' summary) 38 #4217

(with Hartmanis, J.) Two memory bounds for the recognition of primes by automata. *Math. Systems Theory* 3 (1969), 125-129. (H. Maurer) 40 #2462

(with Garfunkel, Solomon) On the undecidability of finite planar graphs. *J. Symbolic Logic* 36 (1971), 121-126. (A. Blass) 44 #2607

Shankar, Hari

An oscillation theorem of Tauberian type. *Tôhoku Math. J.* (2) 20 (1968), 137-145. (D. Drasin) 38 #1264; erratum, 41, p. 1963

(See also Mathematical essays dedicated to A. J. Macintyre, 42 #6194)

(with Chiang, P. S.) Integers—No three in arithmetic progression. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 61-74. *Ohio Univ. Press, Athens, Ohio,* 1970. (F. Herzog) 43 #1937

(with Shah, S. M.) Meromorphic functions with one Valiron deficient value. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 343-351. *Ohio Univ. Press, Athens, Ohio,* 1970. (D. F. Shea) 43 #7638

Shankar, Rama

(with Bhutani, O. P.) On the geometry of dissociative gas flows. *Indiana Univ. Math. J.* 20 (1970/71), 239-246. (R. P. Kanwal) 41 #9487

Shankara, T. S.

A Lie algebra of differential forms and quantum mechanics. (Italian and Russian summaries) *Nuovo Cimento A* (10) 47 (1967), 553-567. (O. E. Lanford, III) 35 #7659

Shankar Abhyankar, Shreeram. See Abhyankar, Shreeram Shankar.

Shankar Mishra, Ratan. See Mishra, Ratan Shankar.

Shankar Pathak, Ram. See Pathak, Ram Shankar.

Shankar Shukla, Kripa

Āryabhaṭa I's astronomy with midnight day-reckoning. *Gaṇita* 18 (1967), *no.* 1, 83-105. (E. B. Allen) 38 #4260; erratum, 39, p. 1594

Hindu methods for finding factors or divisors of a number. *Gaṇita* 17 (1966), 109-117. (Brij Mohan) 37 2563

Early Hindu methods in spherical astronomy. *Gaṇita* 19 (1968), *no.* 2, 49-72. (Brij Mohan) 40 #7075

Shanker, O.

An integral involving the G-function and Kampé de Fériet function. *Proc. Cambridge Philos. Soc.* 64 (1968), 1041-1044. (V. M. Bhise) 38 #3476

(with Saran, S.) Reducibility of Kampé de Fériet function. *Gaṇita* 21 (1970), *no.* 1, 9-16. (H. M. Srivastava) 44 #2954

Shankland, Donn G.

Constraints in the *Q-T-P-H* space of states and energy. *Amer. J. Phys.* 32 (1964), 206-207. (C. J. Eliezer) 31 #5366

Shanks, Daniel

An analytic criterion for the existence of infinitely many primes of the form $1/2(n^2 + 1)$. *Illinois J. Math.* 8 (1964), 377-379. (H. Halberstam) 29 #3423

Polylogarithms, Dirichlet series, and certain constants. *Math. Comp.* 18 (1964), 322-324. (J. C. P. Miller) 30 #5460

On maximal gaps between successive primes. *Math. Comp.* 18 (1964), 646-651. (T. M. Apostol) 29 #4745

(with Schmid, Larry P.) Variations on a theorem of Landau. I. *Math. Comp.* 20 (1966), 551-569. (D. H. Lehmer) 35 #1564

(with Kravitz, Sidney) On the distribution of Mersenne divisors. *Math. Comp.* 21 (1967), 97-101. (H. Gupta) 36 #3717

(with Parkin, Thomas R.) On the distribution of parity in the partition function. *Math. Comp.* 21 (1967), 466-480. (W. H. Simons) 37 #2711

Generalized Euler and class numbers. *Math. Comp.* 21 (1967), 689-694. (D. G. Cantor) 36 #6343 (E)

Lal's constant and generalizations. *Math. Comp.* 21 (1967), 705-707. (M. S. Cheema) 36 #6363

(with Lal, Mohan; Wrench, John W., Jr.) Corrigenda to: "The calculation of certain Dirichlet series". *Math. Comp.* 22 (1968), 699. (Editors) 37 #2414

Corrigenda to: "Generalized Euler and class numbers". *Math. Comp.* 22 (1968), 699. (Editors) 37 #2678

On Gauss's class number problems. *Math. Comp.* 23 (1969), 151-163. (T. Lepistö) 41 #6814

(with Lehmer, D. H.; Lehmer, Emma) Integer sequences having prescribed quadratic character. *Math. Comp.* 24 (1970), 433-451. (Authors' summary) 42 #5889

Shanks, E. Baylis

Solutions of differential equations by evaluations of functions. *Math. Comp.* 20 (1966), 21-38. (J. C. Butcher) 32 #4858

Shanno, D. F.

(with Kettler, P. C.) Optimal conditioning of quasi-Newton methods. *Math. Comp.* 24 (1970), 657-664. (J. S. Kowalik) 42 #8906

Conditioning of quasi-Newton methods for function minimization. *Math. Comp.* 24 (1970), 647-656. (J. S. Kowalik) 42 #8905

Parameter selection for modified Newton methods for function minimization. *SIAM J. Numer Anal.* 7 (1970), 366-372. (V. Pereyra) 42 #3991

An accelerated gradient projection method for linearly constrained nonlinear estimation. *SIAM J. Appl. Math.* 18 (1970), 322-334. (A. D. Booth) 41 #1198

Shannon, Claude E.

(with Gallager, R. G.; Berlekamp, E. R.) Lower bounds to error probability for coding on discrete memoryless channels. I. *Information and Control* 10 (1967), 65-103. (F. Jelinek) 35 #1405

(with Gallager, R. G.; Berlekamp, E. R.) Lower bounds to error probability for coding on discrete memoryless channels. II. *Information and Control* 10 (1967), 522-552. (Editors) 35 #7728

Shannon, Richard T.

The rank of a flat module. *Proc. Amer. Math. Soc.* 24 (1970), 452-456. (B. J. Mueller) 40 #5659

Shantaram, R.

(with Harkness, W. L.) Convergence of a sequence of transformations of distribution functions. *Pacific J. Math.* 31 (1969), 403-415. (R. A. Horn) 40 #3596

On an interesting metric space. *Math. Mag.* 43 (1970), 95-97. (From the author's introduction) 41 #2623

Convergence of a sequence of transformations of distribution functions. II. *Pacific J. Math.* 33 (1970), 217-232. (R. A. Horn) 41 #4612

Šhanukov, M. H.

The convergence of a finite difference scheme. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 712-714. (L. Veidinger) 40 #8280

Shao, T. S.

(with Chen, T. C.; Frank, R. M.) Tables of zeros and Gaussian weights of certain associated Laguerre polynomials and the related generalized Hermite polynomials. *Math. Comp.* 18 (1964), 598-616. 29 #3674

Shapiro, Arnold

(with Atiyah, M. F.; Bott, R.) Clifford modules. *Topology* 3 (1964), *suppl.* 1, 3-38. (J. F. Adams) 29 #5250

Shapiro, George

(with Lindamood, George E.) Magnitude comparison and overflow detection in modular arithmetic computers. *SIAM Rev.* 5 (1963), 342-350. (E. K. Blum) 29 #6662 (with Paul, Erwin W.) Stabilization of the Lagrangian solutions of the three body problem. (German and Russian summaries) *Astronaut. Acta* 11 (1965), 410-417. (Y. Kozai) 33 #3499

Shapiro, Harold N.

(with Forman, W.) An arithmetic property of certain rational powers. *Comm. Pure Appl. Math.* 20 (1967), 561-573. (B. Volkmann) 35 #2852

On primitive abundant numbers. *Comm. Pure Appl. Math.* 21 (1968), 111-118. (L. Carlitz) 36 #1385

On the counting problem for monotone boolean functions. *Comm. Pure Appl. Math.* 23 (1970), 299-312. (E. M. Palmer) 41 #3288

Shapiro, Harold S.

(with Newmann, Donald J.) Jackson's theorem in higher dimensions. (With discussion) *On Approximation Theory (Proceedings of Conference in Oberwolfach,* 1963*), pp.* 208-219. *Birkhäuser, Basel,* 1964. (T. J. Rivlin) 32 #310

(with Newman, Donald J.) Approximation by generalized rational functions. *On Approximation Theory (Proceedings of Conference in Oberwolfach,* 1963*), pp.* 245-251. *Birkhäuser, Basel,* 1964. (J. L. Walsh) 32 #1495

Weakly invertible elements in certain function spaces, and generators in l_1. *Michigan Math. J.* 11 (1964), 161-165. (G. T. Cargo) 29 #3620

Some negative theorems of approximation theory. *Michigan Math. J.* 11 (1964), 211-217. (G. G. Lorentz) 29 #5041

(with Erdös, P.; Shields, A. L.) Large and small subspaces of Hilbert space. *Michigan Math. J.* 12 (1965), 169-178. (Ivan Singer) 31 #2607

A remark concerning Littlewood's Tauberian theorem. *Proc. Amer. Math. Soc.* 16 (1965), 258-259. (L. Berg) 30 #3331

Weighted polynomial approximation and boundary behaviour of analytic functions. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 326-335. *Izdat. "Nauka", Moscow,* 1966. (L. Alpár) 35 #383

(with Asplund, Edgar) Some orthogonal matrices and related orthogonal functions systems. *Ark. Mat.* 6, 291-298 (1966). (L. Leindler) 33 #7783

(with Newman, Donald J.) Certain Hilbert spaces of entire functions. *Bull. Amer. Math. Soc.* 72 (1966), 971-977. (R. P. Gilbert) 34 #4890

(with Duren, P. L.; Shields, A. L.) Singular measures and domains not of Smirnov type. *Duke Math. J.* 33 (1966), 247-254. (E. C. Schlesinger) 33 #7506

Remarks concerning domains of Smirnov type. *Michigan Math. J.* 13 (1966), 341-348. (E. C. Schlesinger) 34 #4472

The functional equation $f(P(Z)) = g(Q(Z))$ and a problem of A. and C. Rényi. *Studia Sci. Math. Hungar.* 1 (1966), 255-259. (A. Rényi) 34 #6103

(with Flatto, Leopold; Newman, Donald J.) The level curves of harmonic functions. *Trans. Amer. Math. Soc.* 123 (1966), 425-436. (W. Schneider) 33 #5918

(with Douglas, R. G.; Shields, A. L.) On cyclic vectors of the backward shift. *Bull. Amer. Math. Soc.* 73 (1967), 156-159. (J. Rovnyak) 34 #3316

Some theorems on Čebyšev approximation. II. *J. Math. Anal. Appl.* 17 (1967), 262-268. (J. R. Rice) 34 #4774

Some observations concerning weighted polynomial approximation of holomorphic functions. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 320-330. (E. J. Akutowicz) 36 #395

(with Newman, Donald J.) Fischer spaces of entire functions. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.,* 1966*), pp.* 360-369. *Amer. Math. Soc., Providence, R. I.,* 1968. (V. Ganapathy Iyer) 38 #2333

Generalized analytic continuation. *Symposia on Theoretical Physics and Mathematics, Vol.* 8 *(Symposium, Madras,* 1967*), pp.* 151-163. *Plenum, New York,* 1968. (J. P. King) 39 #2953

A Tauberian theorem related to approximation theory. *Acta Math.* 120 (1968), 279-292. (P. L. Butzer and R. J. Nessel) 39 #689

Overconvergence of sequences of rational functions with sparse poles. *Ark. Mat.* 7, 343-349 (1968). (E. J. Akutowicz) 38 #4658

Smoothness of the boundary function of a holomorphic function of bounded type. *Ark. Mat.* 7, 443-447 (1968). (S. Fisher) 38 #4691

Some Tauberian theorems with applications to approximation theory. *Bull. Amer. Math. Soc.* 74 (1968), 500-504. (L. Hoischen) 37 #671

A class of singular functions. *Canad. J. Math.* 20 (1968), 1425-1431. (S. Newberger) 38 #2267

Monotonic singular functions of high smoothness. *Michigan Math. J.* 15 (1968), 265-275. (V. Ganapathy Iyer) 38 #1219

Functions nowhere continuable in a generalized sense. *Publ. Ramanujan Inst. No.* 1 (1968/69), 179-182. (F. W. Carroll) 42 #1982

Approximation by trigonometric polynomials to periodic functions of several variables. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach,* 1968*), pp.* 203-217. *Birkhäuser, Basel,* 1969. (Chandler Davis) 42 #770

(with Douglas, R. G.; Shields, A. L.) Cyclic vectors and invariant subspaces for the backward shift operator. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 37-76. (W. B. Arveson) 42 #5088

Boundary values of bounded holomorphic functions of several variables. *Bull. Amer. Math. Soc.* 77 (1971), 111-116. (S. Fisher) 42 #3302

(with Duren, P. L.) Interpolation in H^p spaces. *Proc. Amer. Math. Soc.* 31 (1972), 162-164. (J. A. Cima) 44 #6968

Shapiro, Harvey L.

A note on extending uniformly continuous pseudometrics. *Bull. Soc. Math. Belg.* 18 (1966), 439-441. (R. W. Bagley) 35 #2265

Extensions of pseudometrics. *Canad. J. Math.* 18 (1966), 981-998. (L. M. Kelly) 34 #6719

Closed maps and paracompact spaces. *Canad. J. Math.* 20 (1968), 513-519. (G. S. Ungar) 37 #3540

(with Alo, R. A.) A note on compactifications and semi-normal spaces. *J. Austral. Math. Soc.* 8 (1968), 102-108. (O. Frink) 37 #3527

(with Alò, Richard A.) Normal bases and compactifications. *Math. Ann.* 175 (1968), 337-340. (R. Engelking) 36 #3312

(with Alo, R. A.) Extensions of totally bounded psuedometrics. *Proc. Amer. Math. Soc.* 19 (1968), 877-884. (L. M. Kelly) 38 #667

(with Alò, Richard A.) Wallman compact and realcompact spaces. *Contributions to Extension Theory of Topological Structures (Proc. Sympos., Berlin,* 1967*), pp.* 9-14. *Deutsch. Verlag Wissensch, Berlin,* 1969. (R. Engelking) 40 #872

(with Alo, R. A.) $\mathcal{F}$-realcompactifications and normal bases. *J. Austral. Math. Soc.* 9 (1969), 489-495. (D. R. Traylor) 39 #3455

(with Alò, R. A.) Paracompact subspaces. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 115-119. (C. E. Aull) 41 #6163

More on extending continuous pseudometrics. *Canad. J. Math.* 22 (1970), 984-993. (Richard A. Alò) 43 #2665

(with Alò, Richard A.) Continuous uniformities. *Math. Ann.* 185 (1970), 322-328. (C. R. Borges) 41 #4484

(with Alò, Richard A.; Sennott, Linnea I.) *F*- and *z*-embedded subspaces. *Math. Ann.* 188 (1970), 13-22. (V. J. Mancuso) 42 #1062

Shapiro, I. I. Piatetsky. See Pjateckiĭ-Šapiro, I. I.

Shapiro, J. Joseph

(with Narendra, Kumpati S.) On two time-scales in linear systems with special reference to adaptive control. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 422-431. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #5313

Shapiro, I. S. See Šapiro, I. S.

Shapiro, Irwin I.

(with Jones, H. M.) Effects of the earth's magnetic field on the orbit of a charged satellite. *J. Geophys. Res.* 66 (1961), 4123-4127. (Authors' summary) 30 #5690

Fourth test of general relativity. *Phys. Rev. Lett.* 13 (1964), 789-791. (P. G. Bergmann) 30 #5785

Shapiro, J.

(with Mon, G.) Solution of stochastic optimal control problems by an alternative state-space representation. *Internat. J. Control* (1) 12 (1970), 95-108. (H. J. Kushner) 43 #4533

Shapiro, J. L. See Šapiro, Ja. L.

Shapiro, Jeremy F.

(with Wagner, Harvey M.) A finite renewal algorithm for the knapsack and turnpike models. *Operations Res.* 15 (1967), 319-341. (A. C. Williams) 35 #5222

Dynamic programming algorithms for the integer programming problem. I. The integer programming problem viewed as a knapsack type problem. *Operations Res.* 16 (1968), 103-121. (T. L. Saaty) 38 #921

Group theoretic algorithms for the integer programming problem. II. Extension to a general algorithm. *Operations Res.* 16 (1968), 928-947. (T. L. Saaty) 38 #5468

Shortest route methods for finite state space deterministic dynamic programming problems. *SIAM J. Appl. Math.* 16 (1968), 1232-1250. (M. J. Beckmann) 39 #3808

Turnpike theorems for integer programming problems. *Operations Res.* 18 (1970), 432-440. (E. Balas) 44 #2496

Generalized Lagrange multipliers in integer programming. *Operations Res.* 19 (1971), 68-76. (Author's summary) 43 #1630

Shapiro, Jesse M.

Domains of attraction for absolute values of random variables. *J. Soc. Indust. Appl. Math.* 13 (1965), 129-135. (J. E. Cigler) 31 #6272

On analytic properties of infinitely divisible distributions. *J. Math. Sci.* 1 (1966), 94-97. (C. G. Esseen) 34 #5134

(with Boonyasombut, Virool) The accuracy of infinitely divisible approximations to sums of independent variables with application to stable laws. *Ann. Math. Statist.* 41 (1970), 237-250. (W. L. Steiger) 41 #6272

Shapiro, Joel H.

Examples of proper, closed, weakly dense subspaces in non-locally convex *F*-spaces. *Israel J. Math.* 7 (1969), 369-380. (N. T. Peck) 41 #2346

Extension of linear functionals on *F*-spaces with bases. *Duke Math. J.* 37 (1970), 639-645. (I. Namioka) 42 #5004

(with Gregory, D. A.) Nonconvex linear topologies with the Hahn Banach extension property. *Proc. Amer. Math. Soc.* 25 (1970), 902-905. (I. Namioka) 41 #8957

The bounded weak star topology and the general strict topology. *J. Functional Analysis* 8 (1971), 275-286. (R. H. Cox) 44 #7294

Shapiro, Joseph

Matrix representation of the angular momentum projection operator. *J. Mathematical Phys.* 6 (1965), 1680-1691. (J.-L. Calais) 32 #3485

Shapiro, Leonard D.

Proximality in minimal transformation groups. *Proc. Amer. Math. Soc.* 26 (1970), 521-525. (R. W. Bagley) 42 #1091

Shapiro, Norman Z.

Functions which remain partial recursive under all similarity transformations. *J. Symbolic Logic* 28 (1963), 17-19. (C. E. M. Yates) 31 #2146

(with Shapley, L. S.) Mass action laws and the Gibbs free energy function. *J. Soc. Indust. Appl. Math.* 13 (1965), 353-375. (J. Warga) 31 #4356

(with Dantzig, George B.; Folkman, Jon) On the continuity of the minimum set of a continuous function. *J. Math. Anal. Appl.* 17 (1967), 519-548. (L. A. Santaló) 34 #7241

(with Folkman, Jon) Approximating one convex function by another. *SIAM J. Appl. Math.* 16 (1968), 993-997. (J. T. Lewis) 38 #5367

Recursively countable subsets of recursive metric spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 603-607. (H. Gonshor) 41 #1535

An inequality concerning the minimum of the sum of an arbitrary function and a linear function. *SIAM J. Appl. Math.* 17 (1969), 83. (E. F. Beckenbach) 39 #2931

A generalized technique for eliminating species in complex chemical equilibrium calculations. *SIAM J. Appl. Math.* 17 (1969), 960-971. (J. Warga) 40 #6748

(with Bigelow, James H.; Dehaven, James C.) Chemical equilibrium problems with unbounded constraint sets. *SIAM J. Appl. Math.* 18 (1970), 768-775. (J. Stoer) 41 #5053

Shapiro, S. S.

(with Wilk, M. B.) An analysis of variance test for normality: Complete samples. *Biometrika* 52 (1965), 591-611. (N. L. Johnson) 34 #5213

The M-server queue with Poisson input and gamma-distributed service of order two. *Operations Res.* 14 (1966), 685-694. 33 #3377

(with Wilk, M. B.; Chen, H. J. (Mrs.)) A comparative study of various tests for normality. *J. Amer. Statist. Assoc.* 63 (1968), 1343-1372. (From the authors' summary) 38 #5362

(with Wilk, M. B.) Approximations for the null distribution of the W statistic. *Technometrics* 10 (1968), 861-866. 38 #2867

Shapiro, V. D. See Šapiro, V. D.

Shapiro, Victor L.

Harmonic analysis and the theory of cochains. *Bull. Amer. Math. Soc.* 70 (1964), 447-467. (F. J. Almgren, Jr.) 29 #3612

Bounded generalized analytic functions on the torus. *Pacific J. Math.* 14 (1964), 1413-1422. (I. Glicksberg) 30 #2298

(with Crittenden, Richard B.) Sets of uniqueness on the group 2^{ω}. *Ann. of Math.* (2) 81 (1965), 550-564. (R. F. Gundy) 31 #3783

$U(\varepsilon)$-sets for Walsh series. *Proc. Amer. Math. Soc.* 16 (1965), 867-870. (P. Civin) 31 #5035

The uniqueness of solutions of the heat equation in an infinite strip. *Trans. Amer. Math. Soc.* 125 (1966), 326-361. (D. T. Haimo) 34 #1727; erratum, 34, p. 1786

Spherical caps and random valued harmonic functions. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill., 1967)*, pp. 103-125. *Southern Illinois Univ. Press, Carbondale, Ill.*, 1968. (A. Rényi) 39 #7123

The approximate divergence operator. *Proc. Amer. Math. Soc.* 20 (1969), 55-60. (S. Izumi) 38 #4918

Sets of uniqueness for the vibrating string problem. *Trans. Amer. Math. Soc.* 141 (1969), 127-146. (Teruo Ikebe) 39 #5961

Characteristic planes and pointwise solutions of the heat equation. *Indiana Univ. Math. J.* 20 (1970/71), 115-133. (D. T. Haimo) 41 #8844

Spherical convergence, bounded variation, and singular integrals on the N-torus. *J. Approximation Theory* 4 (1971), 204-217. (S. Izumi) 43 #3736

(with Philipp, S. P.; Sills, W. H.) The Abel summability of conjugate multiple Fourier-Stieltjes integrals. *Pacific J. Math.* 36 (1971), 231-238. (G. Sunouchi) 43 #2425

Shapiro, Ya. L. See Šapiro, Ja. L.

Shapiro, Z. See Šapiro, Z. Ja.

Shapley, L. S.

Some topics in two-person games. *Advances in Game Theory*, pp. 1-28. *Princeton Univ. Press, Princeton, N. J.*, 1964. (S. Sherman) 33 #7140

(with Shapiro, N. Z.) Mass action laws and the Gibbs free energy function. *J. Soc. Indust. Appl. Math.* 13 (1965), 353-375. (J. Warga) 31 #4356

On solutions that exclude one or more players. *Essays in Mathematical Economics (In Honor of Oskar Morgenstern)*, pp. 57-61. *Princeton Univ. Press, Princeton, N. J.*, 1967. (J. H. Blau) 35 #1360

Shapoval, E. A. See Šapoval, E. A.

Shapovalov, G. K. See Šapovalov, G. K.

Sharaf, A. L.

Exact solutions for electromagnetic fields in cylindrically stratified isotropic media. *J. London Math. Soc.* (2) 2 (1970), 92-98. (From the author's introduction) 42 #5523

Sharan, R.

(with Singh, K. P.; Radhakrishna, L.) Electromagnetic fields and cylindrical symmetry. *Ann. Physics* 32 (1965), 46-68. (Gerald Rosen) 33 #2373

(with Singh, K. P.) Product of two surfaces in general relativity. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 584-592 (1966). (C. Gilbert) 34 #5483

(with Singh, K. P.; Singh, D. N.) Non-null electromagnetic fields in certain Riemannian fourfolds. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 1-15. (W. B. Bonnor) 40 #5238

(with Singh, K. P.; Singh, D. N.) Scalar differential invariants in general relativity. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 94-102. (W. B. Bonnor) 40 #3886

Sharda (Miss)

A discrete time limited space queueing problem with batch arrivals forming a Markovian chain and service in M parallel channels in batches of variable size. *Cahiers Centre Études Recherche Opér.* 12 (1970), 178-194. (C. E. M. Pearce) 43 #4155

Sharfuddin, S. M.

(with Tiffen, R.) A mixed boundary value problem of two-dimensional elasticity theory. *Mathematika* 11 (1964), 151-154. (L. H. Donnell) 30 #1655

Sharikadze, D. V. See Šarikadze, Dz. V.

Sharma, Ambikeshwar

(with Cheney, E. W.) Bernstein power series. *Canad. J. Math.* 16 (1964), 241-252. (P. J. Davis) 31 #3770

Some remarks on lacunary interpolation in the roots of unity. *Israel J. Math.* 2 (1964), 41-49. (D. S. Greenstein) 30 #388

(with Cheney, E. W.) On a generalization of Bernstein polynomials. *Riv. Mat. Univ. Parma* (2) 5 (1964), 77-84. (O. Shisha) 33 #6233

(with Erdős, Paul) On Tchebycheff quadrature. *Canad. J. Math.* 17 (1965), 652-658. (J. L. Ullman) 31 #3774

(with Varma, A. K.) Trigonometric interpolation. *Duke Math. J.* 32 (1965), 341-357. (R. P. Boas, Jr.) 31 #1497

(with Frank, Evelyn) Continued fraction expansions and iterations of Newton's formula. *J. Reine Angew. Math.* 219 (1965), 62-66. (E. Kogbetliantz) 31 #2526

(with Meir, A.) On the method of Romberg quadrature. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 250-258. (A. D. McLaren) 33 #8103

(with Motzkin, T. S.) Next-to-interpolatory approximation on sets with multiplicities. *Canad. J. Math.* 18 (1966), 1196-1211. (Gabor Szegő) 34 #3174

(with Meir, A.) Degree of approximation of spline interpolation. *J. Math. Mech.* 15 (1966), 759-767. (Carl de Boor) 33 #3006

(with Meir, A.) Simultaneous approximation of a function and its derivatives. *SIAM J. Numer. Anal.* 3 (1966), 553-563. (G. Meinardus) 35 #7044

Lacunary interpolation in the roots of unity. (German and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 127-133. (Gabor Szegő) 33 #6216

(with Meir, A.) Span of derivatives of polynomials. *Amer. Math. Monthly* 74 (1967), 527-531. (R. S. Booth) 35 #5561

Interpolation by polynomials in z and z^{-1} in the roots of unity. *Canad. J. Math.* 19 (1967), 16-23. (Gabor Szegő) 35 #387

(with Meir, A.) Span of linear combinations of derivatives of polynomials. *Duke Math. J.* 34 (1967), 123-129. (Z. Rubinstein) 34 #6036

(with Meir, A.) A variation of the Tchebicheff quadrature problem. *Illinois J. Math.* 11 (1967), 535-546. (R. E. Barnhill) 35 #7058

(with Meir, A.) Approximation methods by polynomials and power-series. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 395-403. (E. W. Cheney) 37 #652

(with Varma, A. K.) Trigonometric interpolation (0,2,3) case. *Ann. Polon. Math.* 21 (1968), 51-58. (R. Kopp) 38 #2513

(with Meir, A.) On zeros of derivatives of polynomials. *Canad. Math. Bull.* 11 (1968), 443-445. (M. Nassif) 38 #2285

(with Meir, A.) Convergence of a class of interpolatory splines. *J. Approximation Theory* 1 (1968), 243-250. (J. W. Jerome) 38 #3665

(with Meir, A.) Symmetric differences and derivatives. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 353-360. (J. H. Curtiss) 37 #4212

(with Meir, A.) An extension of Obreshkov's formula. *SIAM J. Numer. Anal.* 5 (1968), 488-490. (John F. Riordan) 38 #2927 (with Prasad, J.) On Abel-Hermite-Birkhoff interpolation. *SIAM J. Numer. Anal.* 5 (1968), 864-881. (J. W. Jerome) 39 #6487

(with Meir, A.) One-sided spline approximation. *Studia Sci. Math. Hungar.* 3 (1968), 211-218. (Z. Ziegler) 38 #1445

(with Meir, A.) Multipoint expansions of finite differences. *Approximations with Special Emphasis on Spline Functions (Proc. Sympos. Univ. of Wisconsin, Madison, Wis., 1969), pp.* 389-404. *Academic Press, New York,* 1969. (D. C. Handscomb) 40 #7656

(with Meir, A.) On uniform approximation by cubic splines. *J. Approximation Theory* 2 (1969), 270-274. (L. L. Schumaker) 40 #3137

(with Leeming, D.) Lacunary interpolation—(0, n-1, n) case. *Mathematica (Cluj)* 11(34) (1969), 155-162. (A. K. Varma) 41 #8883

(with Meir, A.) On Ilyeff's conjecture. *Pacific J. Math.* 31 (1969), 459-467. (Z. Rubinstein) 40 #2831

(with Atkinson, K.) A partial characterization of poised Hermite-Birkhoff interpolation problems. *SIAM J. Numer. Anal.* 6 (1969), 230-235. (T. J. Rivlin) 41 #9419

(with Meir, A.) A generalization of the S_α-summation method. *Proc. Cambridge Philos. Soc.* 67 (1970), 61-66. (W. Biegert) 40 #3110

(with Alexits, G.) On the convergence of multiplicatively orthogonal series. *Acta Math. Acad. Sci. Hungar.* 22 (1971/72), 257-266. (K. Tandori) 44 #4449

(with Schoenberg, I. J.) The interpolatory background of the Euler-Maclaurin quadrature formula. *Bull. Amer. Math. Soc.* 77 (1971), 1034-1038. (R. D. Riess) 44 #4446

Sharma, Banwari Lal

Théorie du (C,f)-bordisme. *C. R. Acad. Sci. Paris* 260 (1965), 3259-3261. (R. K. Lashof) 34 #6787

(C,f)-cobordisme et dualité. *C. R. Acad. Sci. Paris* 260 (1965), 3538-3540. (F. Hirzebruch) 31 #5206

Sur l'invariance *PL* de certaines classes de Pontrjagin à coefficients entiers. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A122-A125. (M. W. Hirsch) 34 #2026; erratum, 34, p. 1376

Sur les groupes d'homotopie de *BPL*. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A826-A829. (Edgar H. Brown, Jr.) 36 #7139

Calcul de groupes d'homotopie de *BPL*. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A5-A6. (Edgar H. Brown, Jr.) 37 #3570

Sharma, Bhagirath Lal

(with Saxena, R. K.) Integral representations for the hypergeometric functions of three variables. *Ann. Soc. Sci. Bruxelles Sér. I* 78 (1964), 163-170. (M. J. O. Strutt) 30 #4002

Some definite integrals involving Legendre and *G*-functions. *Vikram—Quart. Res. J. Vikram Univ.* 8 (1964), *no.* 1 & 3, 25-29. (N. C. Jain) 43 #6473

On the generalised function of two variables. I. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 26-40. (A. Erdélyi) 31 #2425

An integral involving *G*-function. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 113-116. (R. P. Boas, Jr.) 32 #5941

Integrals involving Legendre function. *Collect. Math.* 17 (1965), 85-93. (Walter Gautschi) 33 #318

(with Manocha, H. L.) Infinite series of hypergeometric functions. *Ann. Soc. Sci. Bruxelles Sér. I* 80 (1966), 73-86. (A. Erdélyi) 33 #2831

(with Manocha, H. L.) Summation of infinite series. *J. Austral. Math. Soc.* 6 (1966), 470-476. (W. A. Al-Salam) 34 #4551

(with Manocha, H. L.) Some formulae for Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 62 (1966), 459-462. (L. Carlitz) 33 #2836

(with Saxena, R. K.) Integrals involving Appell's functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 73-80. (Authors' summary) 40 #4491

Infinite integrals involving Legendre and *G*-functions. *Arch. Math. (Basel)* 18 (1967), 293-298. (B. R. Bhonsle) 36 #1713

A note on Jacobi polynomials. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), 191-196 (1968). (S. D. Bajpai) 37 #1664

(with Manocha, H. L.) Some formulae by means of fractional derivatives. *Compositio Math.* 18, 229-234 (1967). (W. A. Al-Salam) 37 #472

Integrals involving Bessel functions. *J. Math. Tokushima Univ.* 1 (1967), 37-41. (T. Erber) 38 #352

Some theorems in operational calculus. *Mathematica (Cluj)* 9(32) (1967), 375-381. (B. R. Bhonsle) 37 #6702

(with Mittal, K. C.) Some formulae for Lagrange's polynomials. I, II. *Mathematica (Cluj)* 9(32) (1967), 311-314; *ibid.* 9(32) (1967), 315-319. (S. D. Bajpai) 37 #6498

Integrals associated with generalized function of two variables. *Mathematica (Cluj)* 9(32) (1967), 361-374. (A. Erdélyi) 37 #6497

A formula for *g*-function. *Ricerca (Napoli)* 1967, *no.* 1, 3-7. (V. M. Bhise) 39 #498

(with Manocha, H. L.) Generating functions of Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 63 (1967), 431-433. (B. R. Bhonsle) 35 #1846

A new generating function for Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 63 (1967), 1041-1043. (L. Carlitz) 35 #6881

A new formula for Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 63 (1967), 1045-1047. (L. Carlitz) 35 #6882

Integrals involving generalised function of two variables. II. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 137-148. (Editors) 40 #5916b

A theorem in operational calculus and infinite integrals. *Riv. Mat. Univ. Parma* (2) 8 (1967), 251-257. (S. L. Kalla) 40 #4496

Double integral representations for the hypergeometric functions of three variables. *Univ. Nac. Tucumán Rev. Ser. A* 17 (1967), 47-56. (L. J. Slater) 37 #3061

(with Manocha, H. L.) Some formulae for Laguerre polynomials. *Univ. Nac. Tucumán Rev. Ser. A* 17 (1967), 57-62. (R. N. Jain) 37 #4298

(with Jindia, R. K.) Some definite integrals involving Legendre and generalised function of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 17 (1967), 67-78. (W. A. Al-Salam) 37 #5433

Double integrals involving Bessel functions. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 363-367. (Brij Mohan) 40 #5928

Some formulae for generalized function of two variables. *Mat. Vesnik* 5(20) (1968), 43-52. (W. A. Al-Salam) 37 #5434

A new expansion formula for hypergeometric functions of two variables. *Proc. Cambridge Philos. Soc.* 64 (1968), 413-416. (L. J. Slater) 36 #5403

(with Mittal, K. C.) Some new generating functions for Jacobi polynomials. *Proc. Cambridge Philos. Soc.* 64 (1968), 691-694. (B. R. Bhonsle) 37 #1665

Some formulae for *G*-function. *Rev. Un. Mat. Argentina* 24 (1968/69), 159-167. (S. D. Bajpai) 42 #553

(with Jain, P. C.) An expansion for generalised function of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 18 (1968), 7-15. (A. Erdélyi) 39 #499a

An integral involving products of *G*-function and generalised function of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 18 (1968), 17-23. (A. Erdélyi) 39 #499b

(with Jain, P. C.) Some new expansions of the generalised function of two variables. *Univ. Nac. Tucumán Rev. Ser. A* 18 (1968), 25-33. (A. Erdélyi) 39 #499c

A new expansion formula for *G*-function. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 43-46. (L. J. Slater) 40 #5922

Formulae for Jacobi polynomials. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 39-42. (Brij Mohan) 40 #5935

Double integrals involving Legendre functions. *Ann. Polon. Math.* 22 (1969/70), 97-100. (H. M. Srivastava) 40 #418

(with Manocha, H. L.) Some generating functions of Jacobi polynomials. *Mat. Vesnik* 6(21) (1969), 403-407. (A. E. Danese) 41 #535

(with Manocha, H. L.) Some formulae involving Hermite, Laguerre and Gegenbauer polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 35-38. (A. Erdélyi) 44 #499

An integral involving generalised function of two variables. *Ricerca (Napoli)* (2) 20 (1969), *gennaio-aprile,* 13-22. (Editors) 40 #5916a

Double integrals involving Bessel and hypergeometric functions. *Mat. Vesnik* 7(22) (1970), 151-154. (B. S. Tavathia) 41 #8934

Some formulae for Appell functions. *Proc. Cambridge Philos. Soc.* 67 (1970), 613-618. (M. Nassif) 41 #3823

Some formulae for *G*-function. *Ricerca (Napoli)* (2) 21 (1970), *gennaio-aprile,* 8-18. (R. K. Saxena) 42 #7955

(with Jain, P. C.) Some generating functions for Jacobi polynomials. *Ricerca (Napoli)* (2) 21 (1970), *gennaio-aprile,* 19-31. (Y. L. Luke) 42 #6316

Sharma, Bhu Dev

Amount of information. *Cahiers Centre Études Recherche Opér.* 12 (1970), 38-45. (S. Kullback) 41 #9644

Sharma, D. N.

(with Husain, S. I.) Algebraic classification of the curvature tensor in general theory of relativity. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 405-413. (J. R. Robinson) 44 #3662

Sharma, Devendra

(with Bose, S. K.) Integral functions of two complex variables. *Compositio Math.* 15, 210-226 (1963). (R. Epe) 29 #270

Sharma, Divakar

(with Ghosh, M. N.) Power of Tukey's test for non-additivity. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 213-219. (I. Vincze) 30 #3533

Sharma, G. C.

Superposability in second-order fluid. *J. Sci. Engrg. Res.* 8 (1964), 185-190. (A. C. Pipkin) 30 #4461

Sharma, H. R.

(with Manocha, H. L.) New integral expressions for functions of three variables. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 2, 231-244 (1970). (J. A. Donaldson) 43 #577

(with Manocha, H. L.) Some new bilateral generating functions involving Jacobi polynomials. *Mat. Vesnik* 7(22) (1970), 25-28. (J. L. Fields) 41 #7178

Sharma, I. C.

(with Swarup, Kanti) Programming with linear fractional functionals in complex space. *Cahiers Centre Études Recherche Opér.* 12 (1970), 103-109. (O. Gürel) 44 #5106

(with Aggarwal, S. P.) Maximization of the transmission rate of a discrete, constant channel. (German summary) *Unternehmensforschung* 14 (1970), 152-155. (M. Maňas) 43 #5924

Sharma, J. P.

Liapunov function of certain non-linear differential equations of the third and fourth order. *Defence Sci. J.* 19 (1969), 253-260. (B. S. Lalli) 41 #3916

Sharma, K. C.

Theorems on Meijer's Bessel-function transform. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 360-366. (A. Erdélyi) 31 #4936

Integrals involving products of *G*-function and Gauss's hypergeometric function. *Proc. Cambridge Philos. Soc.* 60 (1964), 539-542. (M. J. O. Strutt) 29 #3682

An integral involving *G*-function. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 597-601. (J. A. Donaldson) 32 #2629

A few inversion formulae for Meijer transform. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 736-742. (R. K. Saxena) 32 #6161

On an integral transform. *Math. Z.* 89 (1965), 94-97. (R. S. Varma) 31 #3799

A theorem on Meijer's Bessel function transform. *Proc. Nat. Acad. Sci. India Sect. A* 35 (1965), 153-160. (R. K. Saxena) 34 #571

Sharma, K. D.

(with Jain, M. K.) Numerical solution of linear differential equations and Volterra's integral equation using Lobatto quadrature formula. *Comput. J.* 10 (1967), 101-107. (Authors' summary) 35 #2488

(with Jain, M. K.) Cubature method for the numerical solution of the characteristic initial value problem $u_{xy} = f(x,y,u,u_x,u_y)$. *J. Austral. Math. Soc.* 8 (1968), 355-368. (H. Rutishauser) 37 #3786

One-step methods for the numerical solution of linear differential equations based upon Lobatto quadrature formulae. *J. Austral. Math. Soc.* 11 (1970), 115-128. (W. R. Boland) 41 #1229

Sharma, N. K.

(with Sharma, S. R.) Relativistic variational principle for a charged hydromagnetic compressible fluid. *Indian J. Theoret. Phys.* 11 (1963), 39-46. (J. N. Kapur) 32 #733

(with Ram, Behari) Some properties of spaces with the arc-length $s = \int\{A_i(x^i,\dot{x}^i)\ddot{x}^i\}^{1/3}dt$. *Gaṇita* 15 (1964), 1-8. 33 #685

(with Sharma, S. R.) Variational principles for compressible viscous fluid in magnetohydrodynamics. *Indian J. Phys.* 39 (1965), 25-32. (C. H. Su) 32 #3420

Subspaces of a special Kawaguchi space. *Math. Student* 36 (1968), 177-180 (1969). (H. D. Pande (Zbl 202, 214)) 44 #2185

Sharma, O. P.

Some finite and infinite integrals involving *H*-function and Gauss' hypergeometric functions. *Collect. Math.* 17 (1965), 197-209. (R. K. Saxena) 35 #3092

Certain infinite and finite integrals involving *H*-function and confluent hypergeometric functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 1023-1032. (H. M. Srivastava) 40 #415

Relation between Whittaker and generalised Hankel transforms. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 97-108. (Author's summary) 40 #3205

On certain self-reciprocal functions. *J. Indian Math. Soc. (N.S.)* 32 (1968), 179-193 (1969). (Brij Mohan) 41 #2314

On the Hankel transformation of *H*-functions. *J. Math. Sci.* 3 (1968), 17-26. (V. P. Mainra) 41 #5900

The *H*-functions as kernels in chain transforms. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 320-325. (C. Fox) 40 #3206

Certain integral equations and self-reciprocal functions. *Labdev--J. Sci. Tech. Part A* 7 (1969), 134-143. (R. K. Saxena) 40 #6196

On generalised Hankel and *K*-transforms. *Math. Student* 37 (1969), 109-116. (V. P. Mainra) 41 #8936

On generalised Hankel and Meijer-Laplace transforms. *Math. Student* 37 (1969), 159-168. (G. Doetsch) 41 #8937

H-function and heat production in a cylinder. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 355-360. (Author's summary) 43 #7794

Some theorems connecting self-reciprocal functions. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 115-119. (S. D. Bajpai) 44 #3081

Definite integrals involving self-reciprocal function. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 167-177. (J. P. Singhal) 44 #5730

Sharma, P. L.

On the sequence of Fourier coefficients. *Proc. Amer. Math. Soc.* 15 (1964), 337-340. (P. Heywood) 29 #1493

On the sequence of Fourier coefficients. *Proc. Japan Acad.* 41 (1965), 52-55. (R. Mohanty) 31 #5030

(with Rai, O. P.) A study of the behaviour of sequence of Fourier coefficients. *Ann. Mat. Pura Appl.* (4) 73 (1966), 253-291. (F. C. Hsiang) 34 #4794

(with Venugopal Rao, V.) On the harmonic summability of Fourier series. *Ann. Mat. Pura Appl.* (4) 74 (1966), 203-226. (S. Izumi) 34 #4813

(with Venugopal Rao, V.) On the logarithmic *(L)* mean of the conjugate Fourier series and its differentiated series. *Hung-ching Chow Sixth-fifth Anniversary Volume, pp.* 11-20. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (J. Bryant) 37 #5602

(with Venugopal Rao, V.) On the strong *(L)* summability of the derived Fourier series and its conjugate series. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970), pp.* 17-25. *Math. Res. Center. Nat. Taiwan Univ., Taipei,* 1970. (H. P. Dikshit) 43 #6657

(with Gupta, B. L.) Absolute Cesàro summability of the factored Fourier series. *Kōdai Math. Sem. Rep.* 22 (1970), 61-64. (F. C. Hsiang) 41 #8922

(with Jain, R. K.) On $|V,\lambda|$ summability of a factored Fourier series. *Mat. Vesnik* 7(22) (1970), 37-42. (H. P. Dikshit) 42 #767

(with Naimpally, S. A.) Construction of Lodato proximities. *Math. Japon.* 15 (1970), 101-103. (D. C. Kent) 44 #4709

(with Kori, S. C.) Absolute summability factors of Fourier series. *Proc. Cambridge Philos. Soc.* 68 (1970), 61-65. (B. N. Sahney) 41 #5883

Sharma, Pramod K.

A note on translative mappings. *Publ. Math. Debrecen* 12 (1965), 303-305. (M. Hosszú) 32 #7670

A generalisation to normality. *Math. Student* 35 (1967), 35-37 (1969). (R. W. Carter) 40 #7348

Some remarks on module rigidity over local rings. *Math. Z.* 121 (1971), 206-210. (A. Yaqub) 44 #5316

Sharma, R. D.

(with Green, A. E. S.) Velocity-dependent nucleon-nucleon potentials. *Phys. Rev. Lett.* 14 (1965), 380-383. (J. L. Gammel) 32 #906

Sharma, R. M.

On the absolute summability by Borel's integral method of the derived Fourier series and its conjugate series. *Proc. Edinburgh Math. Soc.* (2) 15 (1966/67), 279-284. (Yung-ming Chen) 37 #692

On strong logarithmic summability of Fourier series. *Bull. Calcutta Math. Soc.* 59 (1967), 93-97. (Yung-ming Chen) 41 #720

On Nörlund summability of derived Fourier series. *Proc. Cambridge Philos. Soc.* 64 (1968), 1029-1031. (S. M. Mazhar) 37 #5603

On a sequence of Fourier coefficients. *Bull. Calcutta Math. Soc.* 61 (1969), 89-93. (B. N. Sahney) 44 #4452

On H_2 summability of derived series. *Bull. Calcutta Math. Soc.* 61 (1969), 75-81. (S. Izumi) 43 #5249

Sharma, R. R.

(with Das, P. C.) On optimal controls for measure delay-differential equations. *SIAM J. Control* 9 (1971), 43-61. (S. E. Dreyfus) 43 #656

Sharma, Ramsewak

(with Bhutani, Om Prakash) General three-dimensional wave propagation in nonequilibrium magnetogasdynamics. *J. Math. Anal. Appl.* 18 (1967), 199-217. (E. G. Broadbent) 34 #8724

Sharma, S. K.

(with Srivastava, A. C.) Torsional oscillations of an indinite plate in elastico-viscous liquids. *Univ. Roorkee Res. J.* 6 (1963), *no.* 1, 79-93. (J. W. Craggs) 32 #722

Sharma, S. R.

(with Sharma, N. K.) Relativistic variational principle for a charged hydromagnetic compressible fluid. *Indian J. Theoret. Phys.* 11 (1963), 39-46. (J. N. Kapur) 32 #733

(with Sharma, N. K.) Variational principles for compressible viscous fluid in magnetohydrodynamics. *Indian J. Phys.* 39 (1965), 25-32. (C. H. Su) 32 #3420

Sharma, Sarla

On the determination of jump of a function by its Fourier coefficients. *Proc. Nat. Acad. Sci. India Sect. A* 32 (1962), 341-348. (A. Šneĭder (RŽMat 1964 #1 B103)) 30 #4112

Sharma, Sudesh

(with Kaul, R. N.) Symmetric and self-dual quadratic programs. *Opsearch* 5 (1968), *no.* 3, 157-164. (M. Maňas) 43 #2992

(with Kaul, R. N.) General symmetric dual programs in complex space. *Opsearch* 7 (1970), 167-174. (M. Stoica and I. M. Stancu-Minasian) 44 #6340

Sharnoff, Mark

Validity conditions for Kramers-Kronig relations. *Amer. J. Phys.* 32 (1964), 40-44. (Author's summary) 31 #1041

Sharp, David H.

(with Misner, Charles W.) Relativistic equations for adiabatic, spherically symmetric gravitational collapse. *Phys. Rev.* (2) 136 (1964), B571-B576. (D. W. Sciama) 31 #2045 (with Dashen, R. F.; Dothan, Y.; Frautschi, S. C.) Self-consistent determination of coupling shifts in broken SU(3). *Phys. Rev.* (2) 143 (1966), 1185-1190. (P. Tarjanne) 33 #5281

(with Goldin, G. A.) Lie algebras of local currents and their representations. *Group Representations in Math. and Phys. (Battelle Seattle 1969 Rencontres)*, pp. 300-311. *Lecture Notes in Physics, Vol. 6. Springer, Berlin,* 1970. (Virendra Singh) 42 #7206

(with Grodnik, J.) Representations of local nonrelativistic currents algebras. *Phys. Rev. D* (3) 1 (1970), 1531-1545. (H. Araki) 41 #4968

(with Grodnik, J.) Description of spin and statistics in nonrelativistic quantum theoreis based on local currents. *Phys. Rev. D* (3) 1 (1970), 1546-1559. (H. Araki) 41 #7970

Sharp, Henry S.

Autohomeomorphisms on E^n. *Fund. Math.* 59 (1966), 171-175. (C. E. Burgess) 34 #3560

Quasi-orderings and topologies on finite sets. *Proc. Amer. Math. Soc.* 17 (1966), 1344-1349. (V. S. Krishnan) 36 #860

Denseness and completeness in certain function spaces. *Amer. Math. Monthly* 74 (1967), 266-271. (E. Nunnally) 34 #8385

Cardinality of finite topologies. *J. Combinatorial Theory* 5 (1968), 82-86. (V. S. Krishnan) 37 #2167

The permanent of a transitive relation. *Proc. Amer. Math. Soc.* 26 (1970), 153-157. (Author's summary) 43 #4837

Sharp, Robert T.

(with von Baeyer, Hans) Polynomial bases and isoscalar factors for SU(3). *J. Mathematical Phys.* 7 (1966), 1105-1122. (N. Mukunda) 34 #2296

(with Pieper, S. C.) O(5) polynomial bases. *J. Mathematical Phys.* 9 (1968), 663-667. (D. A. Uhlenbrock) 38 #903

(with Jakimow, G.) SU(4) polynomial bases. *Canad. J. Phys.* 47 (1969), 2137-2142. (Authors' summary) 40 #1086

(with Lam, C. S.) Internal-labeling problem. *J. Mathematical Phys.* 10 (1969), 2033-2038. (Y. Lehrer-Ilamed) 41 #9511

(with Ahmed, K.) O(5) bases for nuclear seniority model. *J. Mathematical. Phys.* 11 (1970), 1112-1117. (S. Datta Majumdar) 42 #7157

Internal labelling: The classical groups. *Proc. Cambridge Philos. Soc.* 68 (1970), 571-578. (J. Rosen) 41 #5552

SU(n - 2) × SU(2) × U(1) bases for SU(n). *J. Mathematical Phys.* 13 (1972), 183-186. (A. J. Coleman) 44 #7856

Sharp, Rodney Y.

The Cousin complex for a module over a commutative Noetherian ring. *Math. Z.* 112 (1969), 340-356. (J. C. Fogarty) 41 #8400

Gorenstein modules. *Math. Z.* 115 (1970), 117-139. (W. V. Vasconcelos) 41 #8401

Local cohomology theory in commutative algebra. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 425-434. (C. Small) 43 #1965

On Gorenstein modules over a complete Cohen-Macaulay local ring. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 425-434. (Melvin Hochster) 44 #6693

Sharp, W. T.

(with Derome, Jean-Robert) Racah algebra for an arbitrary group. *J. Mathematical Phys.* 6 (1965), 1584-1590. (N. Mukunda) 32 #5211

(with Biedenharn, L. C.; Brouwer, W.) The algebra of representations of some finite groups. *Rice Univ. Studies* 54 (1968), *no.* 2, iii + 68 *pp.* (N. Mukunda) 39 #3762

Sharpe, C. B.

Upper bounds for resistance and reactance integrals of analytic functions. *SIAM Rev.* 6 (1964), 126-130. (Stanley Katz) 29 #5063

Sharpe, D. W.

On certain polynomial ideals defined by matrices. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 155-175. (K. R. Mount) 29 #1226

The syzygies and semi-regularity of certain ideals defined by matrices. *Proc. London Math. Soc.* (3) 15 (1965), 645-679. (K. R. Mount) 32 #5684

Sharpe, G. E.

The realization and measurement of n-terminal active networks. *J. Franklin Inst.* 280 (1965), 256-279. (P. R. Bryant) 32 #1063

Sharpe, K.

(with Gregory, G.) A generalization of the rejection procedure for the generation of random variables. *Austral. Comput. J.* 1 (1967/69), 169-172. (Authors' summary) 39 #6486

Sharpe, Michael J.

Sample path variations of homogeneous processes. *Ann. Math. Staitst.* 40 (1969), 399-407. (H. G. Tucker) 39 #4932

Zeroes of infinitely divisible densities. *Ann. Math. Statist.* 40 (1969), 1503-1505. (From the author's introduction) 39 #2195

Operator-stable probability distributions on vector groups. *Trans. Amer. Math. Soc.* 136 (1969), 51-65. (H. Heyer) 38 #6641

Centered variations of sample paths of homogeneous processes. *Ann. Math. Statist.* 41 (1970), 1430-1437. (H. G. Tucker) 43 #4124

Sharpe, R. W.

(with Beattie, M.; Marsden, J.) A universal factorization theorem in topology. *Canad. Math. Bull.* 9 (1966), 201-207. (M. Edelstein) 33 #7974

(with Beattie, Mary; Marsden, J. E.) Order in finite affine planes. *Canad. Math. Bull.* 9 (1966), 407-411. (H. Lüneburg) 34 #3420

(with Akcoglu, M. A.) Ergodic theory and boundaries. *Trans. Amer. Math. Soc.* 132 (1968), 447-460. (S. R. Foguel) 37 #369

Sharples, Alan

Uniform asymptotic forms of modified Mathieu functions. *Quart. J. Mech. Appl. Math.* 20 (1967), 365-380. (F. W. J. Olver) 36 #1714

Uniform asymptotic expansions of modified Mathieu functions. *J. Reine Angew. Math.* 247 (1971), 1-17. (J. Meixner) 44 #494

Sharshanov, A. A. See Šaršanov, A. A.

Shastry, C. S.

(with Rajagopal, A.K.) Remarks on the existence of solutions of the two-particle Lippmann-Schwinger equation. *J. Mathematical Phys.* 12 (1971), 1515-1520. (P. Achuthan) 44 #3617

Shatrov, A. D. See Šatrov, A. D.

Shatz, Stephen S.

(with Levin, J. J.) Nonlinear oscillations of fixed period. *J. Math. Anal. Appl.* 7 (1963), 284-288. (M. Urabe) 29 #316

Cohomology of artinian group schemes over local fields. *Ann. of Math.* (2) 79 (1964), 411-449. (D. Zelinsky) 33 #1314

The cohomological dimension of certain Grothendieck topologies. *Ann. of Math.* (2) 83 (1966), 572-595. (R. L. Knighten) 33 #5636

Grothendieck topologies over complete local rings. *Bull. Amer. Math. Soc.* 72 (1966), 303-306. (T. Matsusaka) 33 #5635

Note on the descendent theorem of Slepian, Moore, and Prange. *Canad. J. Math.* 18 (1966), 639-642. (E. F. Assmus, Jr.) 33 #5400

The cohomology of certain elliptic curves over local and quasi-local fields. *Illinois J. Math.* 11 (1967), 234-241. (M. Miwa) 35 #6683

The structure of the category of sheaves in the flat topology over certain local rings. *Amer. J. Math.* 90 (1968), 1346-1354. (H. Kurke) 38 #5797

Galois theory. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash., 1968, Vol. One)*, pp. 146-158. *Springer, Berlin,* 1969. (S. Yuan) 40 #2655

Principal homogeneous spaces for finite group schemes. *Proc. Amer. Math. Soc.* 22 (1969), 678-680. (F. Oort) 40 #2687

Finite subschemes of group schemes. *Canad. J. Math.* 22 (1970), 1079-1081. (G. Horrocks) 42 #4560

Shauck, Maxwell E.

Algebras of holomorphic functions in ringed spaces. I. *Canad. J. Math.* 21 (1969), 1281-1292. (S. Hitotumatu) 40 #4474

Shavitt, Isaiah

(with Karplus, M.) Gaussian-transform method for molecular integrals. I. Formulation for energy integrals. *J. Chem. Phys.* 43 (1965), 398-414. (R. K. Nesbet) 32 #3678

Modification of Nesbet's algorithm for the iterative evaluation of eigenvalues and eigenvectors of large metrices. *J. Computational Phys.* 6 (1970), 124-130. (T. A.Porsching) 42 #8679

(with Bender, C. F.) An iterative procedure for the calculation of the lowest real eigenvalue and eigenvector of a nonsymmetric matrix. *J. Computational Phys.* 6 (1970), 146-149. (J. F. Traub) 42 #8676

Shaw, Brian

(with Lambert, John D.) On the numerical solution of $y' = f(x,y)$ by a class of formulae based on rational approximation. *Math. Comp.* 19 (1965), 456-462. (M. P. S. Madan) 31 #4184

(with Lambert, J. D.) A method for the numerical solution of $y' = f(x,y)$ based on a self-adjusting non-polynomial interpolant. *Math. Comp.* 20 (1966), 11-20. (A. R. Mitchell) 32 #6679

(with Lambert, John D.) A generalisation of multistep methods for ordinary differential equations. *Numer. Math.* 8 (1966), 250-263. (G. Dahlquist) 34 #2195

Some multistep formulae for special high order ordinary differential equations. *Numer. Math.* 9 (1966/67), 367-378. (T. E. Hull) 35 #3897

Modified multistep methods based on a nonpolynomial interpolant. *J. Assoc. Comput. Mach.* 14 (1967), 143-154. (Author's summary) 35 #3894

Shaw, David L.

The Sylow 2-subgroups of finite, soluble groups with a single class of involutions. *J. Algebra* 16 (1970), 14-26. (Fletcher Gross) 42 #3179

Shaw, Gordon L.

(with Coulter, Philip W.; Scotti, Antonio) Nucleon-nucleon scattering with inelastic unitarity. *Phys. Rev.* (2) 136 (1964), B1399-B1404. (Authors' summary) 31 #1909

(with Bander, Myron) Threshold and asymptotic behavior of the N/D equations. *Ann. Physics* 31 (1965), 506-524. (R. L. Warnock) 32 #3572 (with Bander, Myron; Coulter, Philip W.) Nonequivalence of the one-channel N/D equations with inelastic unitarity and the multichannel ND^{-1} equations. *Phys. Rev. Lett.* 14 (1965), 270-273. (J. M. Charap) 31 #3050

Shaw, Harry

(with Rich, Robert P.) A method for finding all the zeros of $f(z)$. *J. Assoc. Comput. Mach.* 10 (1963), 545-549. (P. J. Davis) 29 #1729

Shaw, Kay

(with Brauer, Alfred; Gentry, Ivey C.) A new proof of a theorem by. H. G. Landau on tournament matrices. *J. Combinatorial Theory* 5 (1968), 289-292. (N. J. Pullman) 38 #66

Shaw, Kwei Moh. See Mo Shao-k'uei.

Shaw, Leonard

Busy periods in vehicle queues. *J. Appl. Probability* 8 (1971), 261-268. (A. Descloux) 44 #7668

Shaw, Lian Cheng. See Cheng Shao-lien.

Shaw, P. D.

On the logic of particularity-assumptions. *Mind* 77 (1968), 186-205. (K. Inoue) 43 #7281

Shaw, R. P.

(with Dressler, R. F.) A first integral of the quasi-linear plasma equations. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970), pp.* 201-207. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (Editors) 43 #2920

Shaw, Ronald

Unitary representations of the inhomogeneous Lorentz group. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1074-1090. (A. S. Wightman) 33 #2133

Zero-mass and nondecomposable representations. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1086-1099. (J. M. Jauch) 33 #2284

The conjugacy classes of the homogeneous Lorentz group. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 333-345. (W. Israel) 40 #6909

(with Bowtell, Graham) The bivector logarithm of a Lorentz transformation. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 497-503. (C. Gilbert) 41 #3666

The subgroup structure of the homogeneous Lorentz group. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 101-124. (W. Israel) 41 #3667

Shaw, W. A.

(See Developments in Theoret. and Appl. Mech., 31 #912)

Shawky, A.

(with Chehata, C. G.) Normal form of elements of the direct product of groups with one amalgamated subgroup. *J. Natur. Sci. and Math.* 7 (1967), 173-179. (F. Levin) 38 #4564

(with Chehata, C. G.) A note on extending partial automorphisms of abelian groups. *J. Austral. Math. Soc.* 11 (1970), 37-41. (K. Faltings) 41 #1869

Shawyer, Bruce Lockhart Robertson

(with Borwein, D.) On absolute Riesz summability factors. *J. London Math. Soc.* 39 (1964), 455-465. (U. C. Guha) 29 #2567

(with Borwein, D.) On strong Riesz summability factors. *J. London Math. Soc.* 40 (1965), 111-126. (U. C. Guha) 30 #4092

Theorems on strong Riesz summability factors. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 19-27. (F. C. Hsiang) 33 #7738

(with Borwein, David) On Borel-type methods. *Tôhoku Math. J.* (2) 18 (1966), 283-298. (K. Endl) 35 #3312 (E)

(with Borwein, David) On Borel-type methods. II. *Tôhoku Math. J.* (2) 19 (1967), 232-237. (K. Endl) 36 #6826

(with Borwein, David) Correction: "On Borel-type methods". *Tôhoku Math. J.* (2) 19 (1967), 244. (Editors) 35 #7031

Some relations between strong and ordinary Borel-type methods of summability. *Math. Z.* 109 (1969), 115-120. (U. C. Guha) 40 #592

On the relation between the Abel and Borel-type methods of summability. *Proc. Amer. Math. Soc.* 22 (1969), 15-19. (R. Jajte) 39 #4551

(with Yang, G. S.) On the relation between the Abel-type and Borel-type methods of summability. *Proc. Amer. Math. Soc.* 26 (1970), 323-328. (W. Beekmann) 41 #8872

Abelian theorems for Borel-type methods of summability. *J. London Math. Soc.* (2) 3 (1971), 169-177. (W. Beekmann) 43 #2388

Shay, P. Brian

Discoherently associative bifunctors on groups. *Reports of the Midwest Category Seminar, V (Zürich, 1970), pp.* 29-35. *Lecture Notes in Mathematics, Vol.* 195. *Springer, Berlin,* 1971. (D. C. Newell) 44 #5361

Sha Zhen. See Sha Chen.

Shchennikov, V. V. See Ščennikov, V. V.

Shcherbakov, V. T. See Ščerbakov, V. T.

Shchigolev, B. M. See Ščigolev, B. M.

Shea, Daniel F.

Functions analytic in a finite disk and having asymptotically prescribed characteristic. *Pacific J. Math.* 17 (1966), 549-560. (W. H. J. Fuchs) 33 #4286

On the Valiron deficiencies of meromorphic functions of finite order. *Trans. Amer. Math. Soc.* 124 (1966), 201-227. (W. H. J. Fuchs) 34 #351

(with Hellerstein, Simon) Bounds for the deficiencies of meromorphic functions of finite order. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.,* 1966*), pp.* 214-239. *Amer. Math. Soc., Providence, R. I.,* 1968. (W. H. J. Fuchs) 38 #4684

(with Drasin, David) Asymptotic properties of entire functions extremal for the cos $\pi\rho$ theorem. *Bull. Amer. Math. Soc.* 75 (1969), 119-122. (T. Kövari) 38 #2302

(with Drasin, David) On the Valiron deficiencies of integral functions. *Bull. London Math. Soc.* 1 (1969), 174-178. (T. Kövari) 39 #5802

On a complement to Valiron's tauberian theorem for the Stieltjes transform. *Proc. Amer. Math. Soc.* 21 (1969), 1-9. (D. Drasin) 39 #1852

(with Drasin, David) Complements to some theorems of Bowen and Macintyre on the radial growth of entire functions with negative zeros. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 101-121. *Ohio Univ. Press, Athens, Ohio,* 1970. (A. Edrei) 42 #7899

(with Hellerstein, Simon; Williamson, Jack) A tauberian theorem characterizing the regularity of growth of a class of entire functions. *Duke Math. J.* 37 (1970), 489-499. (T. Sato) 42 #4734

Shea, Dion W. J.

(with Mohling, F.; RamaRao, I.) Microscopic theory of quantum fluids. I. Quantum statistical development. *Phys. Rev. A* (3) 1 (1970), 177-192. (S. Harris) 44 #1373

(with Mohling, F.; RamaRao, I.) Microscopic theory of quantum fluids. II. A transformation. *Phys. Rev. A* (3) 1 (1970), 192-206. (S. Harris) 44 #1374

Sheaks, O. J.

Particle transport in spherical media with a central black cavity. *J. Mathematical Phys.* 13 (1972), 203-209. (Author's summary) 44 #7909

Shechtman, I. See Šehtman, I.

Shedler, G. S.

Parallel numerical methods for the solution of equations. *Comm. ACM* 10 (1967), 286-291. (Author's summary) 39 #2321

(with Lewis, P. A. W.) A cyclic-queue model of system overhead in multiprogrammed computer systems. *J. Assoc. Comput. Mach.* 18 (1971), 199-220. (Authors' summary) 43 #8276

Shee, S. C.

On net-cyclic decomposable groups. *J. Nanyang Univ.* 2 (1968), 266-271. (R. W. Carter) 40 #5740

A note on net-cyclic decomposable groups. *Nanta Math.* 2 (1968), 80-83. (V. S. Krishnan) 38 #2198

Sheehan, J.

On Pólya's theorem. *Canad. J. Math.* 19 (1967), 792-799. (G. Baron) 36 #3662

On the number of graphs with a given automorphism group. *Theory of Graphs (Proc. Colloq., Tihany,* 1966*), pp.* 271-277. *Academic Press, New York,* 1968. (C. Sims) 38 #3183

The number of graphs with a given automorphism group. *Canad. J. Math.* 20 (1968), 1068-1076. (G. Baron) 38 #1031

An identity. *Amer. Math. Monthly* 77 (1970), 168. (H. Gupta) 40 #7124

Sheffer, I. M.

(with Krall, H. L.) A characterization of orthogonal polynomials. *J. Math. Anal. Appl.* 8 (1964), 232-244. (W. T. Reid) 29 #2596

(with Krall, H. L.) On pairs of related orthogonal polynomial sets. *Math. Z.* 86 (1965), 425-450. (L. Leindler) 34 #1583

(with Krall, H. L.) Differential equations of infinite order for orthogonal polynomials. *Ann. Mat. Pura Appl.* (4) 74 (1966), 135-172. (E. D. Conway) 34 #6260

(with Krall, H. L.) Orthogonal polynomials in two variables. *Ann. Mat. Pura Appl.* (4) 76 (1967), 325-376. (A. Magnus) 37 #4499

(with Krall, H. L.) Difference equations for some orthogonal polynomials. *Pacific J. Math.* 28 (1969), 383-392. (J. J. Price) 39 #4466

Sheffield, Charles

Generalized multi-step methods with an application to orbit computation. *Celestial Mech.* 1 (1969/70), 46-58. (Author's summary) 40 #6828

Sheftel', Z. G. See Šeftel', Z. G.

Shefter, G. M. See Šefter, G. M.

Shehadeh, Nazmi M.
On the distribution of the coefficients of some polynomials. *SIAM J. Appl. Math.* 16 (1968), 958-963. (John H. Hodges) 41 #1695

Shei, Sun-sheng
Algebraic structure of current algebra, superconvergence sum rules, and the infinite-momentum method. *Phys. Rev.* (2) 188 (1969), 2274-2276. (G. R. Allcock) 41 #7953

Sheikh, A. Haji. See Haji-Sheikh, A.

Sheil-Small, T.
On convex univalent functions. *J. London Math. Soc.* (2) 1 (1969), 483-492. (J. Clunie) 40 #5844
Some conformal mapping inequalities for starlike and convex functions. *J. London Math. Soc.* (2) 1 (1969), 577-587. (Ch. Pommerenke) 40 #2842
A note on the partial sums of convex schlicht functions. *Bull. London Math. Soc.* 2 (1970), 165-168. (F. R. Keogh) 42 #485
Starlike univalent functions. *Proc. London Math. Soc.* (3) 21 (1970), 577-613. (S. M. Shah) 43 #2207

Shein, Norman P.
(with Frisch, Ivan T.) Necessary and sufficient conditions for realizability of vertex-weighted communication nets. *IEEE Trans. Circuit Theory* CT-16 (1969), 496-502. (Authors' summary) 40 #8504
(with Frisch, I. T.) Vertex weighted trees with fewest relay vertices. *SIAM J. Appl. Math.* 17 (1969), 897-903. (Authors' introduction) 40 #7033
(with Frisch, Ivan T.) Sufficient conditions for realizability of vertex-weighted directed graphs. *IEEE Trans. Circuit Theory* CT-17 (1970), 499-505. (G. Chartrand) 42 #9087

Sheinblatt, M.
(with Arnowitt, R.) Electrodynamics of charged vector bosons. *Phys. Rev. D* (3) 1 (1970), 1603-1616. (M. Glück) 42 #4127

Shekhar, Kaushik Chandra. See Chandrashekhar, Kaushik.

Shekhter, V. M. See Šehter, V. M.

Shekhtman, I. See Šehtman, I.

Shelah, Saharon
Stable theories. *Israel J. Math.* 7 (1969), 187-202. (M. Boffa) 40 #7102
Note on a min-max problem of Leo Moser. *J. Combinatorial Theory* 6 (1969), 298-300. (G. F. Clements) 39 #2652
Finite diagrams stable in power. *Ann. Math. Logic* 2 (1970/71), *no.* 1, 69-118. (W. Hodges) 44 #2593
Remark to "local definability theory" of Reyes. *Ann. Math. Logic* 2 (1970/71), *no.* 4, 441-447. (M. Makkai) 44 #56
On languages with non-homogeneous strings of quantifiers. *Israel J. Math.* 8 (1970), 75-79. (N. C. A. da Costa) 41 #6674
On theories T categorical in $|T|$. *J. Symbolic Logic* 35 (1970), 73-82. (G. Fuhrken) 44 #52
A note on Hanf numbers. *Pacific J. Math.* 34 (1970), 541-545. (E. G. K. Lopez-Escobar) 42 #2932
The number of non-isomorphic models of an unstable first-order theory. *Israel J. Math.* 9 (1971), 473-487. (I. L. Gaal) 43 #4652
On the number of non-almost isomorphic models of T in a power. *Pacific J. Math.* 36 (1971), 811-818. (M. Makkai) 44 #2594

Sheldon, Eric
(with Herrmann, Christoph) Group-theoretical approach to the pairing interaction in the translationally invariant shell model. *Helv. Phys. Acta* 39 (1966), 397-403. (Authors' summary) 34 #3941
(with Baltes, H. P.) Bemerkungen zur physikalischen Deutung der SU (6,6)-Theorie. *Helv. Phys. Acta* 39 (1966), 404-419. (Authors' summary) 34 #3942

Sheldon, John W.
A comment on "A new method for finding the phase shifts for the Schrödinger equation". *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 399-400. (J. McKenna) 30 #1764

Sheldon, Philip B.
How changing $D[[x]]$ changes its quotient field. *Trans. Amer. Math. Soc.* 159 (1971), 223-244. (J. W. Brewer) 43 #4818

Shelement'ev, G. S. See Šelement'ev, G. S.

Shelepin, L. A. See Šelepin, L. A.

Shelest, V. P. See Šelest, V. P.

Shelley, P. E.
(with Jordan, P. F.) Formal solution of a nonhomogeneous differential equation with a double transition point. *J. Mathematical Phys.* 6 (1965), 118-135. (R. A. Struble) 30 #4022

Sheludev, I. S. See Želudev, I. S.

Shelupsky, David
Translations of the discrete Bose-Einstein operators. *J. Mathematical Phys.* 7 (1966), 163-166. (W. Güttinger) 32 #3555

Shemer, Jack E.
Some mathematical considerations of time-sharing scheduling algorithms. *J. Assoc. Comput. Mach.* 14 (1967), 262-272. (F. G. Foster) 42 #8592

Shen, C. S.
Transit acceleration of charged particles in an inhomogeneous electromagnetic field. *Astrophys. J.* 141 (1965), 1091-1104. (D, G. Wentzel) 31 #5452

Shen, C. Y.
(with Carter, D. S.) Representations of states of infinite systems in statistical mechanics. *J. Mathematical Phys.* 12 (1971), 1263-1269. (H. Wakita) 44 #2454

Shen, Chi-Neng
(with Briggs, D. L.) Switching analysis for constrained bilinear distributed parameter system with applications. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 656-671. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #1169
(with Wittler, Manfred) A multiplier rule for a functional subject to certain integro-differential constraints. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 253-264. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the authors' introduction) 40 #1175

Shen, David W. C.
(with Rosenberg, Aron) A nonlinear stochastic learning model. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962*), pp.* 629-636. *Publ. House Czech. Acad. Sci., Prague,* 1964. (H. P. Edmundson) 29 #3289
(with Ku, Y. H.) Separation of singularity regions for phase trajectories in certain nonlinear systems. *IEEE Internat. Convention Record* 1965, *pt.* 7, 175-181. (J. W. Heidel) 38 #364
(with Chen, Robert T. N.) Sensitivity analysis and design of multivariable regulators using a quadratic performance criterion. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 229-238. *Inst. Electr. Electron. Engineers, New York,* 1968. 40 #2384

Shen, Mok-kong
On the generation of permutations and combinations. *Nordisk Tidskr. Informations-Behandling* 2 (1962), 228-231. (D. H. Lehmer) 29 #4703
On checking the Goldbach conjecture. *Nordisk Tidskr. Informations-Behandling* 4 (1964), 243-245. (D. H. Lehmer) 30 #3051

Shen, Shan-fu
Stability of laminar flows. *Theory of Laminar Flows, pp.* 719-853. *Princeton Univ. Press, Princeton, N. J.,* 1964. (F. E. Bisshopp) 34 #3859
(with Crimi, P.) The theory for an oscillating thin airfoil as derived from the Oseen equations. *J. Fluid Mech.* 23 (1965), 585-609. (J. D. Murray) 32 #6794

Shen, Sing-yao. See Shen Hsin-yao.

Shen, Xin-yao. See Shen Hsin-yao.

Shen, V. Yun-shen
(with McKellar, Archie C.) An algorithm for the disjunctive decompositon of switching functions. *IEEE Trans. Computers* C-19 (1970), 239-248. (B. Hazeltine) 40 #8510

Shen, Y. R.
(with Bloembergen, N.) Theory of stimulated Brillouin and Raman scattering. *Phys. Rev.* (2) 137 (1965), A1787-A1805. (R. Loudon) 32 #6877

Shen Bai-ying. See Ch'en Pai-ying.

Shen Ch'in-p'ei
(See Discourses on the history of mathematics of the Sung and Yüan period, 34 #2403)

Shenderov, E. L. See Šenderov, E. I.

Shendge, G. R.
(with Lakshmikantham, V.) Functional differential inequalities. *An. Acad. Brasil. Ci.* 39 (1967), 7-14. (H. T. Banks) 36 #6737

Sheng, C. L.
A method for testing and realization of threshold functions. *IEEE Trans. Electronic Computers* EC-13 (1964), 232-239. 32 #5460
(with Hwa, H. R.) An approach for the realization of threshold functions of order r. *IEEE Trans. Computers* C-18 (1969), 923-939. (B. Reusch) 42 #5725

(with Shiva, S. G. S.) Multiple solid burst-error-correcting binary codes. *IEEE Trans. Information Theory* IT-15 (1969), 188-189. 39 #2518

(with Das, S. R.) Coincidence between Boolean products and its application to third-order simplification. *Internat. J. Control* (1) 9 (1969), 363-385. (M. R. Garey) 43 #7259

(with Chen, I-ngo) The decision problems of definite stochastic automata. *SIAM J. Control* 8 (1970), 124-134. (K. S. Fu) 41 #9668

Sheng, Hung Tao

A method of trisection of an angle and *X*-section of an angle. *Math. Mag.* 42 (1969), 73-80. (E. Otto) 39 #2052

Sheng, James

The response of a thin cylindrical shell to transient surface loading. *AIAA J.* 3 (1965), 701-709. (L. S. D. Morley) 31 #951

Sheng, T. K.

Rational polygons. *J. Austral. Math. Soc.* 6 (1966), 452-459. (H. T. Croft) 35 #137

(with Daykin, D. E.) On approximating polygons by rational polygons. *Math. Mag.* 39 (1966), 299-300. (J. F. Rigby) 34 #7463

Graph extension preserving chromatic number. *Amer. Math. Monthly* 74 (1967), 844-846. (W. G. Brown) 36 #2527

(with Ang, D. D.; Daykin, D. E.) On Schoenberg's rational polygon problem. *J. Austral. Math. Soc.* 9 (1969), 337-344. (H. T. Croft) 39 #6816

Sheng, Wu Ching. See Wu, Ching-sheng.

Sheng Gu. See Kung Sheng.

Sheng Ku. See Kung Sheng.

Sheng Yang, Jeong. See Yang, Jeong Sheng.

Shen Hsieh-ch'ang

On the closure of $\{z^{\tau_n}\log^j z\}$ on unbounded curves in the complex plane. *Acta Math. Sinica* 13 (1963), 170-192 *(Chinese); translated as Chinese Math.* 4 (1963), 188-210. (S. Mandelbrojt) 29 #6235

On the closure of $\{z^{\tau_n}\log^j z\}$ in a domain of the complex plane. *Acta Math. Sinica* 13 (1963), 405-418 *(Chinese); translated as Chinese Math.* 4 (1964), 440-453. (S. Mandelbrojt) 29 #6236

On the completeness of the system of functions $\{z^{\tau_n}\ln^j z\}$ on infinite curves in the complex plane. (Russian) *Sci. Sinica* 12 (1963), 921-949. (Editors) 30 #1352

Completeness of the sequence of functions $\{f(\lambda_n z)\}$. *Acta Math. Sinica* 14 (1964), 103-118 *(Chinese); translated as Chinese Math.* 5 (1964), 112-128. (R. P. Boas, Jr.) 29 #1342

On approximation of functions in the complex plane by the system of functions $\{z^{\tau_n}\log^j z\}$. *Acta Math. Sinica* 14 (1964), 406-414 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 439-446. (S. Mandelbrojt) 31 #3782

Approximation of functions by linear aggregates of functions $z^{\tau n}\log^j z$ in the complex plane. (Russian) *Sci. Sinica* 14 (1965), 497-506. (Editors) 35 #388

Shen Hsin-yao

Computation of secondary products. *Acta Math. Sinica* 8 (1958), 231-238 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 828-834 (1967). (Editors) 37 #2222

On natural systems and homotopy types of A_n^2-polyhedra. *Acta Math. Sinica* 13 (1963), 462-470 *(Chinese); translated as Chinese Math.* 4 (1964), 501-510. (S.-T. Hu) 29 #2808

Remarks on the uniqueness of solution of differential equations. (Chinese) *Shuxue Jinzhan* 6 (1963), 267-271. (S. H. Gould) 32 #4300

Higher-order cohomology operations and $\pi^n(K^{n+3})$. *Acta Math. Sinica* 14 (1964), 559-570 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 602-614. (J. F. Adams) 30 #3474

Shenitzer, Abe

(See Siegel, C. L., 41 #1977)

Shen Jin-bei. See Shen Ch'in-p'ei.

Shenk, Norman A., II

Eigenfunction expansions and scattering theory for the wave equation in an exterior region. *Arch. Rational Mech. Anal.* 21 (1966), 120-150. (Y. Kato) 32 #5081

The invariance of wave operators associated with perturbations of $-\Delta$. *J. Math. Mech.* 17 (1967/68), 1005-1021. (S. T. Kuroda) 37 #3201

(with Thoe, Dale) Outgoing solutions of $(-\Delta + q - k^2)u = f$ in an exterior domain. *J. Math. Anal. Appl.* 31 (1970), 81-116. (C. A. Swanson) 41 #7304

(with Thoe, Dale) Eigenfunction expansions and scattering theory for perturbations of $-\Delta$. *Rocky Mountain J. Math.* 1 (1971), *no.* 1, 89-125. (T. Ushijima) 44 #4396

Shen Shih-i

A necessary and sufficient condition for satisfaction of the information criterion in the Shannon theorem. *Acta Math. Sinica* 12 (1962), 389-407 *(Chinese); translated as Chinese Math.* 3 (1963), 419-438. (F. J. Beutler) 29 #1084

The fundamental problem of stationary channel. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp.* 637-639. *Publ. House Czech. Acad. Sci., Prague,* 1964. (F. Baganoff (CR 6 #7409)) 34 #4053

The fundamental problem of stationary channels. (Chinese) *Shuxue Jinzhan* 7 (1964), 1-38. (T. P. Lin) 37 #5054

The coding theorem and its converse for finite memory channels. (Chinese) *Shuxue Jinzhan* 7 (1964), 339-345. (D. Chow) 32 #9139

(with Hu Kuo-ting) Some coding theorems for almost-periodic channels. *Acta Math. Sinica* 15 (1965), 136-152 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 437-455. (T. Onoyama) 35 #1403

Shen Shih-yi. See Shen Shih-i.

Shen Shi-yi. See Shen Shih-i.

Shenton, L. R.

A note on bounds for the asymptotic sampling variance of the maximum likelihood estimator of a parameter in the negative binomial distribution. *Ann. Inst. Statist. Math.* 15 (1963), 145-151. (P. H. Diananda) 30 #2603

(with Bowman, K.) Higher moments of a maximum-likelihood estimate. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 305-317. (H. D. Brunk) 29 #6581

(with Myers, R.) Orthogonal statistics. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que., 1963), pp.* 445-458. *Statistical Publishing Society, Calcutta,* 1965. (C. C. Craig) 35 #3783

(with Carpenter, J. A.) The Mills ratio and the probability integral for a Pearson Type IV distribution. *Biometrika* 52 (1965), 119-126. (N. L. Johnson) 34 #6834

(with Johnson, Whitney L.) Moments of a serial correlation coefficient. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 308-320. (E. Parzen) 34 #1077

(with Uppuluri, V. R. Rao; Feder, P. I.) Random difference equations occurring in one-compartment models. *Math. Biosci.* 1 (1967), 143-171. (Authors' summary) 35 #6229

(with Bowman, K. O.) Remarks on large sample estimators for some discrete distributions. *Technometrics* 9 (1967), 587-598. (D. S. Adorno) 36 #3434

Periodicity and density of modified Fibonacci sequences. *Fibonacci Quart.* 6 (1968), *no.* 2, 109-116. (E. Karst) 38 #5704

(with Bowman, K. O.) Continued fractions for the psi function and its derivatives. *SIAM J. Appl. Math.* 20 (1971), 547-554. (Y. L. Luke) 44 #4244

Shen Xie-chang. See Shen Hsieh-ch'ang.

Shen Xin-yao. See Shen Hsin-yao.

Shen Yao-tian. See Shen Yao-t'ien.

Shen Yao-t'ien

Generalized solutions of the second-order elliptic equations with singular coefficients. (Chinese) *Shuxue Jinzhan* 7 (1964), 321-327. (Z. Shen) 33 #1585

Shen Yen Lynn, Roger. See Lynn, Roger Yen Shen.

Shepard, Roger N.

The analysis of proximities: multidimensional scaling with an unknown distance function. II. *Psychometrika* 27 (1962), 219-246. (Hanan Rubin) 30 #3555

Shepelavey, Bohdan

Global covariant conservation laws in Riemannian spaces. I. *J. Mathematical Phys.* 7 (1966), 1303-1309. (L. Witten) 33 #8198

Global covariant conservation laws in Riemannian spaces. II. *J. Mathematical Phys.* 7 (1966), 1310-1320. (L. Witten) 33 #8199

Shephard, Geoffrey C.

Decomposable convex polyhedra. *Mathematika* 10 (1963), 89-95. (B. Grünbaum) 30 #2398

On a conjecture of Melzak. *Canad. Math. Bull.* 7 (1964), 561-563. (Victor Klee) 30 #505

Shadow systems of convex sets. *Israel J. Math.* 2 (1964), 229-236. (A. M. Macbeath) 31 #3931

Convex bodies and convexity on Grassmann cones. VI. The projection functions of a simplex. *J. London Math. Soc.* 39 (1964), 307-319. (A. M. Macbeath) 29 #520

Convex bodies and convexity on Grassmann cones. VIII. Projection functions of vector sums of convex sets. *J. London Math. Soc.* 39 (1964), 417-423. (A. M. Macbeath) 29 #3953

Approximation problems for convex polyhedra. *Mathematika* 11 (1964), 9-18. (B. Grünbaum) 30 #2399

(with Busemann, H.) Convex bodies and convexity on Grassmann cones (*X*): Projection functions of parallel convex bodies. *Ann. Mat. Pura Appl.* (4) 70 (1965), 271-293. (A. M. Macbeath) 33 #3190

A sphere in a crate. *J. London Math. Soc.* 40 (1965), 433-434. (H. S. M. Coxeter) 31 #1611

(with Webster, R. J.) Metrics for sets of convex bodies. *Mathematika* 12 (1965), 73-88. (G. Freilich) 32 #2975

* Vector spaces of finite dimension. University Mathematical Texts, No. 32. *Oliver & Boyd, Edinburgh-London; Interscience Publishers Inc.* [*John Wiley & Sons, Inc.*], *New York,* 1966. viii + 200 *pp.* *(loose errata)* (R. F. Rinehart) 36 #5148

The Steiner point of a convex polytope. *Canad. J. Math.* 18 (1966), 1294-1300. (G. T. Sallee) 35 #4814

A pre-Hilbert space consisting of classes of convex sets. *Israel J. Math.* 4 (1966), 1-10. (G. Ewald) 34 #3435

A property of projection functions of parallel convex bodies. *J. London Math. Soc.* 41 (1966), 343-344. (G. Ewald) 34 #679

(with Ewald, Günter) Normed vector spaces consisting of classes of convex sets. *Math. Z.* 91 (1966), 1-19. (G. D. Chakerian) 32 #4597

Reducible convex sets. *Mathematika* 13 (1966), 49-50. (K. Strubecker) 33 #6504

Approximations by polytopes with projectively regular facets. *Mathematika* 13 (1966), 189-195. (G. T. Sallee) 34 #4984

(See also Grünbaum, Branko, 37 #2085)

(with Busemann, H.) Convexity on nonconvex sets. *Proc. Colloquium on Convexity (Copenhagen,* 1965*), pp.* 20-33. *Københavns Univ. Mat. Inst., Copenhagen,* 1967. (G. Ewald) 36 #4434

(with Perles, M. A.) Facets and nonfacets of convex polytopes. *Acta Math.* 119 (1967), 113-145. (D. W. Walkup) 36 #7022

Polytopes with centrally symmetric faces. *Canad. J. Math.* 19 (1967), 1206-1213. (J. J. Burckhardt) 36 #4433

An elementary proof of Gram's theorem for convex polytopes. *Canad. J. Math.* 19 (1967), 1214-1217. (J. J. Burckhardt) 37 #822

(with Perles, M. A.) Angle sums of convex polytopes. *Math. Scand.* 21 (1967), 199-218 (1969). (G. T. Sallee) 39 #4747

A theorem on cyclic polytopes. *Israel J. Math.* 6 (1968), 368-372 (1969). (G. T. Sallee) 39 #6170

The mean width of a convex polytope. *J. London Math. Soc.* 43 (1968), 207-209. (H. Hadwiger) 37 #2087

Angle deficiencies of convex polytopes. *J. London Math. Soc.* 43 (1968), 325-336. (H. Hadwiger) 37 #5784

A uniqueness theorem for the Steiner point of a convex region. *J. London Math. Soc.* 43 (1968), 439-444. (G. T. Sallee) 37 #3447

Twenty problems on convex polyhedra. I. *Math. Gaz.* 52 (1968), 136-156. (Editors) 37 #6833

Twenty problems on convex polyhedra. II. *Math. Gaz.* 52 (1968), 359-367. (Editors) 38 #5111

(with McMullen, P.) Diagrams for centrally symmetric polytopes. *Mathematika* 15 (1968), 123-138. (D. G. Larman) 38 #6456

Euler-type relations for convex polytopes. *Proc. London Math. Soc.* (3) 18 (1968), 597-606. (G. T. Sallee) 38 #606

* Spazi vettoriali di dimensioni finite. Tradotto dall'inglese da Giovanni Rita. Poliedro, 9. *Edizioni Cremonese, Rome,* 1969. vii + 217 *pp.* (Editors) 42 #1835

(with Grünbaum, B.) Convex polytopes. *Bull. London Math. Soc.* 1 (1969), 257-300. (P. McMullen) 40 #3428

Neighbourliness and Radon's theorem. *Mathematika* 16 (1969), 273-275. (G. T. Sallee) 41 #2529

(with McMullen, P.) Polytopes with an axis of symmetry. *Canad. J. Math.* 22 (1970), 265-287. (R. A. Brualdi) 41 #4379

(with Perles, M. A.) Dense sequences of convex polytopes. *Mathematika* 17 (1970), 28-38. (W. J. Firey) 42 #2362

On a problem of Fejes Tóth. *Studia Sci. Math. Hungar.* 5 (1970), 471-473. (J. B. Wilker) 44 #3212

Spherical complexes and radial projections of polytopes. *Israel J. Math.* 9 (1971), 257-262. (D. Barnette) 43 #8003

Shephard, Ronald W.

The notion of a production function. *Unternehmensforschung* 11 (1967), 209-232. (K. J. Arrow) 38 #5460

Shepherdson, J. C.

Machine configuration and word problems of given degree of unsolvability. *Logic, Methodology and Philos. Sci. (Proc.* 1964 *Internat. Congr.), pp.* 69-80. *North-Holland, Amsterdam,* 1965. (K. Appel) 34 #2456

Non-standard models for fragments of number theory. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 342-358. *North-Holland, Amsterdam,* 1965. (J. R. Shoenfield) 33 #5483

Ernst Robert (Peter) Reifenberg. *J. London Math. Soc.* 40 (1965), 370-377. (Editors) 32 #1108

Machine configuration and word problems of given degree of unsolvability. *Z. Math. Logik Grundlagen Math.* 11 (1965), 149-175. (Graham Higman) 30 #4681

The rule of induction in the three variable arithmetic based on + and •. *Ann. Fac. Sci. Univ. Clermont-Ferrand No.* 35 (1967), 25-31. (J. R. Shoenfield) 43 #1837

Weak and strong induction. *Amer. Math. Monthly* 76 (1969), 989-1004. (B. H. Mayoh) 40 #2518

(with Eilenberg, S.; Elgot, C. C.) Sets recognized by *n*-tape automata. *J. Algebra* 13 (1969), 447-464. (H. Maurer) 40 #2460

Shepley, L. C.

Singularities in spatially homogeneous, dust-filled cosmological models. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1403-1409. (A. H. Taub) 30 #4579

Conformal tensor discontinuities in general relativity. *Comm. Math. Phys.* 9 (1968), 313-326. (A. H. Taub) 38 #1900

Sheporaitis, L. P.

(with Ku, Y. H.) Global properties of diffusion processes on cylindrical type phase space. *J. Franklin Inst.* 289 (1970), 93-109. (Authors' summary) 41 #2770

Shepp, Lawrence A.

A local limit theorem. *Ann. Math. Statist.* 35 (1964), 419-423. (C. G. Esseen) 29 #4090

A limit law concerning moving averages. *Ann. Math. Statist.* 35 (1964), 424-428. (C. G. Esseen) 29 #4091

Recurrent random walks with arbitrarily large steps. *Bull. Amer. Math. Soc.* 70 (1964), 540-542. (F. L. Spitzer) 29 #6557

The singularity of Gaussian measures in function space. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 430-433. (L. L. Helms) 29 #6536

Distinguishing a sequence of random variables from a translate of itself. *Ann. Math. Statist.* 36 (1965), 1107-1112. (J. R. Klauder) 31 #781

(with Hinderer, K.) An application of group random walk theory to random walks in euclidean space. *Arch. Math.* 16 (1965), 75-80. (P. E. Ney) 31 #2763

(with Pollak, H. O.) The estimation of some determinants of Toeplitz-type. *Proc. Amer. Math. Soc.* 16 (1965), 919-922. (I. I. Hirschman, Jr.) 32 #116

Radon-Nikodým derivatives of Gaussian measures. *Ann. Math. Statist.* 37 (1966), 321-354. (T. Pitcher) 32 #8408

Gaussian measures in function space. *Pacific J. Math.* 17 (1966), 167-173. (J. Feldman) 32 #6541

(with Lloyd, S. P.) Ordered cycle lengths in a random permutation. *Trans. Amer. Math. Soc.* 121 (1966), 340-357. (J. Riordan) 33 #3320

A first passage problem for the Wiener process. *Ann. Math. Statist.* 38 (1967), 1912-1914. (D. Siegmund) 36 #968

(with Logan, B. F.) Real zeros of random polynomials. *Proc. London Math. Soc.* (3) 18 (1968), 29-35. (K. N. Gowrisankaran) 38 #2829

(with Logan, B. F.) Real zeros of random polynomials. II. *Proc. London Math. Soc.* (3) 18 (1968), 308-314. (K. N. Gowrisankaran) 38 #2830

(with Beneš, V. E.) Wiener integrals associated with diffusion processes. (Russian summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 498-501. (D. Babbitt) 39 #395

Explicit solutions to some problems of optimal stopping. *Ann. Math. Statist.* 40 (1969), 993-1010. (M. B. Woodroofe) 40 #3654

(with Wolf, Jack K.; Wyner, Aaron D.; Ziv, Jacob) Binary communication over the Gaussian channel using feedback with a peak energy constraint. *IEEE Trans. Information Theory* IT-15 (1969), 476-478. (Authors' summary) 39 #5231

(with McCabe, B. J.) On the supremum of S_n/n. *Ann. Math. Statist.* 41 (1970), 2166-2168. (Authors' summary) 42 #2529; erratum, 44, p. 1631

(with Landau, H. J.) On the supremum of a Gaussian process. *Sankhyā Ser. A* 32 (1970), 369-378. (R. Theodorescu) 44 #3381

(with Marcus, M. B.) Continuity of Gaussian processes. *Trans. Amer. Math. Soc.* 151 (1970), 377-391. (N. U. Prabhu) 41 #9340

(with Kadota, T. T.) Conditions for absolute continuity between a certain pair of probability measures. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 250-260. (T. Pitcher) 43 #4074

First passage time for a particular Gaussian process. *Ann. Math. Statist.* 42 (1971), 946-951. (Author's summary) 43 #4105

Sheppard, William Fleetwood

* The probability integral. Completed and edited by the Committee for the Calculation of Mathematical Tables. British Association for the Advancement of Science, Mathematical Tables, Vol. VII. *Published for the Royal Society at the Cambridge University Press, London,* 1966. xi + 34 *pp.* (Editors) 37 #7065

Sheppey, G. C.

(with Ehlotzky, F.) Numerical calculations of the Delbrück scattering amplitude. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1185-1198. (P. Roman) 32 #2072

Sheps, Mindel C.

Characteristics of a ratio used to estimate failure rates: Occurrences per person year of exposure. *Biometrics* 22 (1966), 310-321. (D. G. Chapman) 34 #5245

Sher, Richard B.

Toroidal decompositions of E^3. *Fund. Math.* 61 (1967/68), 225-241. (S. Armentrout) 37 #905 (with Alford, W. R.) A note on 0-dimensional decompositions of E^3. *Amer. Math. Monthly* 75 (1968), 377-378. (S. Armentrout) 37 #2204

(with Lambert, H. W.) Point-like 0-dimensional decompositions of S^3. *Pacific J. Math.* 24 (1968), 511-518. (L. D. Loveland) 37 #902

Defining subsets of E^3 by cubes. *Pacific J. Math.* 25 (1968), 613-619. (J. J. Charatonik) 38 #698

A note on an example of Stallings. *Proc. Amer. Math. Soc.* 19 (1968), 619-620. (S. K. Kaul) 37 #906

Concerning wild Cantor sets in E^3. *Proc. Amer. Math. Soc.* 19 (1968), 1195-1200. (G. Burde) 38 #2755

(with Alford, W. R.) Defining sequences for compact 0-dimensional decompositions of E^n. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 209-212. (R. Bean) 40 #8031

Defining subsets of manifolds by cells. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 363-365. (D. R. McMillan, Jr.) 41 #1059

Geometric embedding invariants of simple closed curves in three-space. *Duke Math. J.* 36 (1969), 683-693. (L. K. Barrett) 41 #2648

Families of arcs in E^3. *Trans. Amer. Math. Soc.* 143 (1969), 109-116. (G. Burde) 40 #4932

A result on unions of flat cells. *Duke Math. J.* 37 (1970), 85-88. (C. W. Patty) 40 #4940

Determining the cellularity of a i-complex by properties of its arcs. *Proc. Amer. Math. Soc.* 26 (1970), 491-498. (B. G. Casler) 42 #5242

Tame polyhedra in wild cells and spheres. *Proc. Amer. Math. Soc.* 30 (1971), 169-174. (R. J. Daverman) 43 #6897

Sherbert, Donald R.

(with Peressini, A. L.) Multiplicative operators and sub-stochastic matrices. *J. London Math. Soc.* 41 (1966), 605-611. (D. G. Kendall) 34 #3331

(with Peressini, A. L.) Order properties of linear mappings on sequence spaces. *Math. Ann.* 165 (1966), 318-332. (Louis Brickman) 33 #6363

(with Peressini, A. L.) Ordered topological tensor products. *Proc. London Math. Soc.* (3) 19 (1969), 177-190. (H. H. Schaefer) 39 #1943

(with Marti, J. T.) A note on bases in ordered locally convex spaces. *Comment. Math. Helv.* 45 (1970), 299-302. (J. B. Bednar) 42 #5010

Sherbourne, A. N.

(with Schröder, Johann) A general variational theorem in classical plasticity. *J. Math. and Phys.* 46 (1967), 175-187. (S. Drobot) 35 #6406

Sherbrooke, Craig C.

(with Feeney, G. J.) The $(s-1,s)$ inventory policy under compound Poisson demand. *Management Sci.* 12 (1966), 391-411. (L. Takács) 33 #3789

Discrete compound Poisson processes and tables of the geometric Poisson distribution. *Naval Res. Logist. Quart.* 15 (1968), 189-203. 38 #804

Shercliff, J. A.

* A textbook of magnetohydrodynamics. *Pergamon Press, Oxford-New York-Paris,* 1965. ix + 265 pp. (H. K. Moffatt) 32 #3421

Shere, Kenneth D.

Introduction to multiple asymptotic series with an application to elastic scattering. *J. Mathematical Phys.* 12 (1971), 78-82. (A. Dalgarno) 43 #2937

Sheremet'ev, M. P. See Šeremet'ev, M. P.

Sherif, Soraya

Tauberian classes and Tauberian theorems. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 303-308. (L. Berg) 29 #6221

Tauberian constants for general triangular matrices and certain special types of Hausdorff means. *Math. Z.* 89 (1965), 312-323. (L. Berg) 31 #5013

A Tauberian constant for the (S,μ_{n+1}) transformation. *Tôhoku Math. J.* (2) 19 (1967), 110-125. (D. Waterman) 36 #1877

A Tauberian relation between the Borel and the Lototsky transforms of series. *Pacific J. Math.* 27 (1968), 145-154. (W. Biegert) 38 #1435

Sherin, Richard J.

A matrix formulation of Kaiser's varimax criterion. *Psychometrika* 31 (1966), 535-538. (Author's summary) 34 #6941

Sherk, F. A.

(with Ostrom, T. G.) Finite projective planes with affine subplanes. *Canad. Math. Bull.* 7 (1964), 549-559. (S. Crampe-Priess) 30 #2390

Finite incidence structures with orthogonality. *Canad. J. Math.* 19 (1967), 1078-1083. (R. Lingenberg) 36 #777

Sherman, Arthur

Magnetohydrodynamic flows of non-equilibrium plasmas. *J. Fluid Mech.* 25 (1966), 621-637. (L. C. Woods) 34 #2256

Sherman, Bernard

A free boundary problem for the heat equation with heat input at a melting interface. *Quart. Appl. Math.* 23 (1965/66), 337-348. (W. T. Kyner) 32 #7966

A free boundary problem for the heat equation with prescribed flux at both fixed face and melting interface. *Quart. Appl. Math.* 25 (1967), 53-63. (R. Gerber) 35 #3969

* (with Dubman, Morton R.) Estimation of parameters in a transient Markov chain arising in a reliability growth model. ARL 69-0010. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. ii + 49 pp. (C. Mohan) 40 #2202; erratum, 42, p. 1823

(with Dubman, M.) Estimation of parameters in a transient Markov chain arising in a reliability growth model. *Ann. Math. Statist.* 40 (1969), 1542-1556. (S. Blumenthal) 40 #3664

A general one-phase Stefan problem. *Quart. Appl. Math.* 28 (1970), 377-382. (A. D. Solomon) 43 #7795

Free boundary problems for the heat equation in which the moving interface coincides initially with the fixed face. *J. Math. Anal. Appl.* 33 (1971), 449-466. (D. T. Haimo) 43 #733

General one-phase Stefan problems and free boundary problems for the heat equation with Cauchy data prescribed on the free boundary. *SIAM J. Appl. Math.* 20 (1971), 555-570. (J. R. Cannon) 44 #4400

Sherman, Charles H.

(with Williams, W.; Parke, N. G.; Moran, D. A.) Acoustic radiation from a finite cylinder. *J. Acoust. Soc. Amer.* 36 (1964), 2316-2322. (Gerald A. Brigham) 31 #2938

Sherman, D. I. See Šerman, D. I.

Sherman, Frederick S.

A source-flow model of viscous effects in hypersonic axi-symmetric free jets. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 471-490. (K. R. Enkenhaus) 31 #5417

Sherman, Gordon

(with Reiter, Stanley) Discrete optimizing. *J. Soc. Indust. Appl. Math.* 13 (1965), 864-889. (E. L. Johnson) 32 #2198

Sherman, Malcolm J.

Operators and inner functions. *Pacific J. Math.* 22 (1967), 159-170. (J. Rovnyak) 35 #3472

Disjoint invariant subspaces. *Pacific J. Math.* 27 (1968), 619-620. (J. Rovnyak) 38 #5043

A spectral theory for inner functions. *Trans. Amer. Math. Soc.* 135 (1969), 387-398. (D. Sarason) 38 #5037

Eigenfunctions of operator-valued analytic functions. *Canad. J. Math.* 22 (1970), 686-690. (D. Sarason) 41 #5997

On the moduli of analytic functions. *Canad. Math. Bull.* 13 (1970), 325-327. (R. Aguiló Fuster) 42 #6256

Sherman, R. H.

(with Hammel, E. F.) Application of the quantum theory of corresponding states to the problem of critical-point exponents. *Phys. Rev. Lett.* 15 (1965), 9-11. (C. E. Chase) 32 #2148

Sherman, Robert E.

Design and evaluation of a repetitive group sampling plan. *Technometrics* 7 (1965), 11-21. (Author's summary) 30 #4364

Sherman, Seymour

Fluctuation and periodicity. *J. Math. Anal. Appl.* 9 (1964), 468-476. (F. L. Spitzer) 29 #6558

Product property and cluster property equivalence. *J. Mathematical Phys.* 5 (1964), 1137-1139. (F. L. Spitzer) 29 #4526

Cluster-star inversion and the Möbius formula. *J. Mathematical Phys.* 6 (1965), 1189-1192. (K. Imre) 32 #2137

(with Lenard, A.) Stable potentials. I. *Comm. Math. Phys.* 15 (1969), 201-207. (D. B. Lichtenberg) 41 #735

A ferromagnetic inequality. *J. Combinatorial Theory* 6 (1969), 399-401. (Werner Nowacki) 39 #1529

(with Lenard, A.) Stable potentials. II. *Comm. Math. Phys.* 17 (1970), 91-97. (Authors' summary) 42 #6517

(with Griffiths, Robert B.; Hurst, C. A.) Concavity of magnetization of an Ising ferromagnet in a positive external field. *J. Mathematical Phys.* 11 (1970), 790-795. (Authors' summary) 42 #1412

Sherman, T. O.

A moment problem on R^n. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 273-278. (A. Devinatz) 33 #522

Representations of Lie algebras by normal operators. *Proc. Amer. Math. Soc.* 16 (1965), 1125-1129. (W. E. Jenner) 32 #1293

A weight theory for unitary representations. *Canad. J. Math.* 18 (1966), 159-168. (L. Auslander) 33 #1410

(with Levinson, N.) The sum of the intersections of a cone with a linear subspace and of dual cone with orthogonal complementary subspace. *J. Combinatorial Theory* 1 (1966), 338-349. (D. R. Henney) 34 #4882

Positive linear functionals on *-algebras of unbounded operators. *J. Math. Anal. Appl.* 22 (1968), 285-318. (B. Yood) 38 #5021

Sherman, Thomas L.

Properties of solutions of quasi-differential equations. *Duke Math. J.* 32 (1965), 297-304. (W. T. Reid) 31 #3659

Properties of solutions of n^{th} order linear differential equations. *Pacific J. Math.* 15 (1965), 1045-1060. (F. M. Stein) 32 #2654

(with Coles, W. J.) Convergence of successive approximations for nonlinear two-point boundary value problems. *SIAM J. Appl. Math.* 15 (1967), 426-433. (M. Wachman) 36 #457

On solutions of Nth order linear differential equations with N zeros. *Bull. Amer. Math. Soc.* 74 (1968), 923-925. (N. P. Bhatia) 38 #1331

Generalizations of a property of Tchebycheff polynomials. *Proc. Amer. Math. Soc.* 19 (1968), 473-476. (F. Max Stein) 37 #1677

Uniqueness for second order two point boundary value problems. *J. Differential Equations* 6 (1969), 197-208. (R. E. Gaines) 40 #443

On a theorem of Azbelev and Caljuk. *Proc. Amer. Math. Soc.* 21 (1969), 63. (M. E. Muldoon) 39 #545

Conjugate points and simple zeros for ordinary linear differential equations. *Trans. Amer. Math. Soc.* 146 (1969), 397-411. (H. C. Howard) 41 #572

Shermann, D. I. See Šerman, D. I.

S. Hernández, Juan L. See Hernández S., Juan L.

Sherry, David L.

A generalization of summability- (Z,p) of Silverman and Szász. *Proc. Edinburgh Math. Soc.* (2) 17 (1970), 53-57. (B. D. Malviya) 43 #5208

Shershin, Anthony Conners

(with Moore, John T.) Direct summands of abelian monoids. *Math. Notae* 20 (1965), 109-116. (R. P. Sullivan) 35 #6772

Results concerning the Schutzenberger-Wallace theorem. *Bol. Soc. Mat. Mexicana* (2) 13 (1968), 21-31. (A. D. Wallace) 41 #379

A characterization of the closed subgroups of the Schutzenberger group. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 179-183. (A. D. Wallace) 38 #5985

Algebraic results concerning Green's H-slices. *Colloq. Math.* 20 (1969), 221-225. (J. M. Day) 40 #2774

Sherwood, Howard

On the completion of probabilistic metric spaces. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 62-64. (B. Schweizer) 35 #3709

On E-spaces and their relation to other classes of probabilistic metric spaces. *J. London Math. Soc.* 44 (1969), 441-448. (B. Schweizer) 39 #2190

Betweenness in probabilistic metric spaces. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1061-1068. (B. Schweizer) 43 #1246

Shestakov, V. See Šestakov, V. I.

Shesterikov, S. A. See Šesterikov, S. A.

Sheth, I. H.

On hyponormal operators. *Proc. Amer. Math. Soc.* 17 (1966), 998-1000. (R. G. Douglas) 33 #4685

On normaloid operators. *Pacific J. Math.* 28 (1969), 675. (J. P. Williams) 39 #2008

On hyponormal operators. *Vidya* 12 (1969), *no.* 1, 240-241. (P. R. Halmos) 42 #6646

A note on operators of class (N). *Vidya* 12 (1969), *no.* 2, 164-166. (P. R. Halmos) 42 #5090

Some results on hyponormal operators. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 395-398. (V. Istrăţescu) 41 #6006

Shetty, C. M.

(with Bazaraa, M. S.; Goode, J. J.) Optimality criteria in nonlinear programming without differentiability. *Operations Res.* 19 (1971), 77-86. (Authors' summary) 42 #8898

Shevchenko, Yu. N. See Ševčenko, Ju. M.

Shevelo, V. N. See Ševelo, V. M.

Sheynin, O. B.

Studies in the history of probability and statistics. XXI. On the early history of the law of large numbers. *Biometrika* 55 (1968), 459-467. (From the author's summary) 38 #3945

Shi, Shu Wu. See Wu Shih-shu.

Shi, Yun-yuan

Low Reynolds numbers flow past an ellipsoid of revolution of large aspect ratio. *J. Fluid Mech.* 23 (1965), 657-671. (J. D. Murray) 32 #6795

Shiao Shiou-zhi. See Hsiao Hsiu-chi.

Shiau, J. F.

(with Marris, A. W.) Universal deformation in isotropic incompressible hyperelastic materials when the deformations tensor has equal proper values. *Arch. Rational Mech. Anal.* 36 (1970), 135-160. (A. C. Pipkin) 40 #6835 (E)

(with Marris, A. W.) Corrigenda: "Universal deformations in isotropic incompressible hyperelastic materials when the deformation tensor has equal proper values. *Arch. Rational Mech. Anal.* 38 (1970), 406. (Editors) 41 #9480

Shiba, Masaaki

On a theorem of Haar. *Tôhoku Math. J.* (2) 21 (1969), 451-455. (J. J. Price) 40 #7701

Shibaoka, Yasumitsu

On singular submodule of simple ring. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 53-64. (J. C. Robson) 40 #7306

Shibata, Kêichi

On harmonic topological mappings of a Riemann surface. (Japanese) *Sûgaku* 20 (1968), 193-202. (Y. Kusunoki) 40 #2851

Shibazaki, Kôkichi

On algebroid functions with small Ξ and their derivatives. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 24-34 (1969). (A. Weitsman) 40 #7462

On algebroid functions with the maximal deficient sum and their derivatives. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 35-38 (1969). (A. Weitsman) 40 #7463

Remarks on exceptional values of meromorphic functions. *Kôdai Math. Sem. Rep.* 22 (1970), 469-472. (A. Weitsman) 43 #523

Shibuya, Masaaki

Generation of pseudo-random numbers. (Japanese) *Sûgaku* 15 (1963), 68-71. (S. Ikehara) 29 #1722

Shibuya, Tai-ichi

(with Wulfman, Carl E.) The Kepler problem in two-dimensional momentum space. *Amer. J. Phys.* 33 (1965), 570-574. (A. C. Hurley) 32 #8876

Shichman, Harold

(with Sandberg, I. W.) Numerical integration of systems of stiff nonlinear differential equations. *Bell System Tech. J.* 47 (1968), 511-527. (R. W. Hamming) 38 #1836

Integration system of a nonlinear network-analysis program. *IEEE Trans. Circuit Theory* CT-17 (1970), 378-386. (C. C. Conley) 42 #7074

Shieh, Leang-san

(with Chen, C. F.) A trace method for directly synthesizing Liapunov functions of aperiodic systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich, 1968), pp.* 145-151. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #2374

(with Chen, Chih-fan) Continued fraction inversion by Routh's algorithm. *IEEE Trans. Circuit Theory* CT-16 (1969), 197-202. (Authors' summary) 39 #3845

Shieh, S. Y.

(with Gilbert, R. P.) A new method in the theory of potential scattering. *J. Mathematical Phys.* 7 (1966), 431-433. (T. Regge) 33 #1009

Shield, David

Nilpotency and related properties of group extensions. *Bull. Austral. Math. Soc.* 4 (1971), 145-154. (I. B. S. Passi) 43 #4921

Shield, Richard Thorpe

(with Carlson, D. E.) Second and higher order effects in a class of problems in plane finite elasticity. *Arch. Rational Mech. Anal.* 19 (1965), 189-214. (A. E. Green) 31 #1801

On the stability of linear continuous systems. (German summary) *Z. Angew. Math. Phys.* 16 (1965), 649-686. (J. O. C. Ezeilo) 32 #7951

(with Klingbeil, Werner Walter) On a class of solutions in plane finite elasticity. (German summary) *Z. Angew. Math. Phys.* 17 (1966), 489-511. (W. S. Edelstein) 35 #2535

Shields, Allen L.

(with Rubel, L. A.) Bounded approximation by polynomials. *Acta Math.* 112 (1964), 145-162. (J. Korevaar) 30 #5104

On fixed points of commuting analytic functions. *Proc. Amer. Math. Soc.* 15 (1964), 703-706. (Anne L. Hudson) 29 #2790

(with Brown, Arlen; Halmos, P. R.) Cesàro operators. *Acta Sci. Math. (Szeged)* 26 (1965), 125-137. (M. Schreiber) 32 #4539

(with Rubel, L. A.) Weak topologies on the bounded holomorphic functions. *Bull. Amer. Math. Soc.* 71 (1965), 349-352. (H. S. Bear) 30 #2364

(with Erdős, P.; Shapiro, H. S.) Large and small subspaces of Hilbert space. *Michigan Math. J.* 12 (1965), 169-178. (Ivan Singer) 31 #2607

(with Rubel, L. A.) Invariant subspaces of analytic function spaces. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 341-342. *Scott-Foresman, Chicago, Ill.,* 1966. (J. Rovnyak) 33 #3089 (with Rubel, L. A.) Weak topologies for the bounded holomorphic functions. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 270-272. *Izdat. "Nauka", Moscow,* 1966. (Editors) 34 #6558

(with Rubel, L. A.) The space of bounded analytic functions on a region. *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 1, 235-277. (H. S. Bear) 33 #6440

(with Duren, P. L.; Shapiro, H. S.) Singular measures and domains not of Smirnov type. *Duke Math. J.* 33 (1966), 247-254. (E. C. Schlesinger) 33 #7506

(with Douglas, R. G.; Shapiro, H. S.) On cyclic vectors of the backward shift. *Bull. Amer. Math. Soc.* 73 (1967), 156-159. (J. Rovnyak) 34 #3316

(with Rubel, L. A.) Hyperbolic mean automorphic functions. *Invent. Math.* 4 (1967), 294-298. (E. Følner) 37 #1975

(with Piranian, George; Wells, James H.) Bounded analytic functions and absolutely continuous measures. *Proc. Amer. Math. Soc.* 18 (1967), 818-826. (E. L. Stout) 35 #5911

(See also Jaglom, I. M., 39 #3375)

(with Halperin, J., Jr.; Rolewicz, S.) On eigenvectors of compact contractions acting in linear metric spaces. *Colloq. Math.* 19 (1968), 85-87. (E. R. Deal) 36 #6975

(with Brown, Leon; Schnitzer, F.) A note on a problem of D. Pompeiu. *Math. Z.* 105 (1968), 59-61. (F. J. Almgren, Jr.) 37 #2156

(with Duren, P. L.; Romberg, B. W.) Linear functionals on H^p spaces with $0 < p < 1$. *J. Reine Angew. Math.* 238 (1969), 32-60. (D. Sarason) 41 #4217

(with Caughran, James G.) Singular inner factors of analytic functions. *Michigan Math. J.* 16 (1969), 409-410. (G. T. Cargo) 40 #5867

(with Duren, P. L.) Properties of H^p $(0 < p < 1)$ and its containing Banach space. *Trans. Amer. Math. Soc.* 141 (1969), 255-262. (S. Merrill) 39 #6065

(with Douglas, R. G.; Shapiro, H. S.) Cyclic vectors and invariant subspaces for the backward shift operator. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 37-76. (W. B. Arveson) 42 #5088

(with Wallen, L. J.) The commutants of certain Hilbert space operators. *Indiana Univ. Math. J.* 20 (1970/71), 777-788. (A. Brown) 44 #4558

(with Rubel, L. A.) The second duals of certain spaces of analytic functions. *J. Austral. Math. Soc.* 11 (1970), 276-280. (D. Vogt) 43 #2484

(with Duren, P. L.) Coefficient multipliers of H^p and B^p spaces. *Pacific J. Math.* 32 (1970), 69-78. (J. A. Cima) 41 #485

(with Williams, D. L.) Bounded projections, duality, and multipliers in spaces of analytic functions. *Trans. Amer. Math. Soc.* 162 (1971), 287-302. (J. H. Hedlund) 44 #790

Shields, Paul C.

Invariant elements for positive contractions on a Banach lattice. *Math. Z.* 96 (1967), 189-195. (L. Sucheston) 34 #6537

Shiffman, Bernard

On the removal of singularities of analytic sets. *Michigan Math. J.* 15 (1968), 111-120. (R. Nirenberg) 37 #464

Local complex analytic curves in an analytic variety. *Proc. Amer. Math. Soc.* 24 (1970), 432-437. (W. Barth) 40 #5899

Extension of positive holomorphic line bundles. *Bull. Amer. Math. Soc.* 77 (1971), 1091-1093. (L. R. Hunt) 44 #6993

Shiffman, Max

Measure-theoretic properties of arbitrary point sets. *Proc. Nat. Acad. Sci. U.S.A.* 67 (1970), 302-304. (J. C. Oxtoby) 42 #453

Shiflett, Ray C.

(with Brown, James R.) On extreme doubly stochastic measures. *Michigan Math. J.* 17 (1970), 249-254. (R. G. Douglas) 42 #451

Shifrin, E. G. See Šifrin, È. G.

Shiga, Kôji

Some aspects of real-analytic manifolds and differentiable manifolds. *J. Math. Soc. Japan* 16 (1964), 128-142. (N. H. Kuiper) 30 #2517 (E)

Correction to: "Some aspects of real-analytic manifolds and differentiable manifolds". *J. Math. Soc. Japan* 17 (1965), 216-217. (N. H. Kuiper) 31 #6243

A note on algebras of real-analytic functions. *Kōdai Math. Sem. Rep.* 17 (1965), 119-121. (N. H. Kuiper) 31 #3964

On C^∞ functions. (Japanese) *Sûgaku* 16 (1965), 214-224. (S. Kobayashi) 33 #1859

Shiga, Tokuzo

(with Watanabe, Takesi) On Markov chains similar to the reflecting barrier Brownian motion. *Osaka J. Math.* 5 (1968), 1-33. (W. E. Pruitt) 39 #7676

Shigano, Hiroshi

On infinite higher derivations. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 301-305 (1970). (R. E. MacRae) 43 #200

Shi Gen-hua. See Shih Ken-hua.

Shigesada, Nanako

Kinetic theory of diffusion controlled reaction. *J. Phys. Soc. Japan* 30 (1971), 233-244. (Roy R. Johnson) 44 #6281

Shih, Chiang Wang. See Wang Shih-chiang.

Shih, Chung-tuo

Markov processes whose hitting distributions are dominated by those of a given process. *Trans. Amer. Math. Soc.* 129 (1967), 157-179. (H. Bauer) 36 #3417

On extending potential theory to all strong Markov processes. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 303-315. (Guy Johnson) 44 #6040

Construction of Markov processes from hitting distributions. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 47-72. (F. B. Knight) 43 #5613

Construction of Markov processes from hitting distributions. II. *Ann. Math. Statist.* 42 (1971), 97-114. (F. B. Knight) 43 #5614

Shih, Fu

(with Lee, Shing-meng) On a family of Lototsky transformations. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 124-135. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (B. E. Rhoades) 37 #1839

Shih, Hsio-Chang

(with Erber, Thomas) Cerenkov radiation from extended charge structures. *Acta Phys. Austriaca* 19 (1964), 17-44. (N. L. Balazs) 30 #2814

Shih, Hua Hoo. See Hu Shih-hua.

Shih, Hua Hu. See Hu, Shih-hua.

Shih, L. Y.

The Korteweg-de Vries equation: Transition period. *J. Mathematical Phys.* 12 (1971), 2124-2126. (J. Smoller) 44 #4407

Shih, Tang Sung. See Tang Sung-shih.

Shih, W. C. L.

(with Baron, J. R.) Nonequilibrium blunt-body flow using the method of integral relations. *AIAA J.* 2 (1964), 1062-1071. (M. D. Van Dyke) 30 #1703

Shih, Weishu

Sur les extensions successives. *C. R. Acad. Sci. Paris* 249 (1959), 607-609. 29 #137

Une remarque sur le système projectif de suites spectrales. *C. R. Acad. Sci. Paris* 251 (1960), 20-21. 29 #138

(See also Palais, Richard S., 33 #6649)

Une remarque sur les classes de Thom. *C. R. Acad. Sci. Paris* 260 (1965), 6259-6262. (F. Hirzebruch) 31 #5217

Caractérisation axiomatique du théorème de Riemann-Roch différentiable. *C. R. Acad. Sci. Paris* 261 (1965), 863-866. (M. F. Atiyah) 32 #6493

Fiber cobordism and the index of a family of elliptic differential operators. *Bull. Amer. Math. Soc.* 72 (1966), 984-991. (M. F. Atiyah) 34 #6804

Sur les classes fondamentales et le cobordisme fibré. *Comptes Rendus du K-Colloque (Montpellier, 1968), Vol. III, pp.* 103-110. *Univ. of Montpellier, Montpellier,* 1968. (J. A. Schafer) 40 #6577

On the symbol of a pseudo-differential operator. *Bull. Amer. Math. Soc.* 74 (1968), 657-659. (W. J. Sweeney) 37 #2249

Characteristic classes as natural transformations and topological index of classical elliptic operators. *Cahiers Topologie Géom. Différentielle* 10 (1968), 395-447. (R. L. E. Schwarzenberger) 40 #2114

Une remarque sur les opérateurs intégraux. *Global Analysis (Proc. Sympos. Pure Math., Vol. XVI, Berkeley, Calif., 1968), pp.* 175-177. *Amer. Math. Soc., Providence, R. I.,* 1970. (H. Wu) 41 #9295

Une remarque sur la formule de résidus. *Bull. Amer. Math. Soc.* 76 (1970), 717-718. (H. Wu) 41 #6133

Shih Chi-chi

A method of constructing the orthogonal Latin squares. (Chinese) *Shuxue Jinzhan* 8 (1965), 98-104. (R. C. Read) 37 #5113

Shih Chung-tz'u

Bounds for the *P*-condition number of matrices with positive roots. *Acta Math. Sinica* 14 (1964), 790-795 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 189-194. (M. Marcus) 31 #4793

A method of computing the upper bound of eigenvalues of a transport equation. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 51-52. (C. K. Chu) 35 #2513

(with Wang Po-ying) Bounds for the determinant, characteristic roots and condition number of certain types of matrices. *Acta Math. Sinica* 15 (1965), 326-341 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 21-40. (M. Marcus) 32 #4137

Shih Hsien-liang
On some inequalities for strong summability of Fourier series. *Acta Math. Sinica* 16 (1966), 233-252 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 244-264. (S. Izumi) 34 #3219

Shih Ken-hua
On least number of fixed points and Nielsen numbers. *Acta Math. Sinica* 16 (1966), 223-232 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 234-243. (D. G. Bourgin) 35 #1004

Shih Sheng-ming
On the induced representation of a semisimple Lie algebra in its three-dimensional principal subalgebra, and a calculation for the case of G_2^{1}. *Acta Math. Sinica* 15 (1965), 296-302 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 610-617. (A. J. Coleman) 32 #5799
On H. Weyl's character formula. (Chinese) *Shuxue Jinzhan* 8 (1965), 326-333. (T.-S. Wu) 39 #358

Shih Shu-chung
Interpolation sequences for entire functions. II. *Acta Math. Sinica* 15 (1965), 683-707 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 411-436. (R. P. Boas, Jr.) 34 #6104
Power series in *F*-algebras. (Chinese) *Shuxue Jinzhan* 9 (1966), 190-196. (L. N. Argabright) 38 #5001

Shikata, Morikazu
The generalized inbreeding coefficient in a Markov process. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 9 (1962), 127-136. (C. A. B. Smith) 34 #4016
A generalization of the inbreeding coefficient. *Biometrics* 21 (1965), 665-681. (Author's summary) 32 #1034

Shikata, Yoshiaki
(with Shizuma, Ryoji) A note on variation theory. *Proc. Japan Acad.* 45 (1969), 517-521. (F. J. Almgren, Jr.) 40 #6588

Shikata, Yoshihiro
On a distance function on the set of differentiable structures. *Osaka J. Math.* 3 (1966), 65-79. (R. H. Szczarba) 34 #2022
On the smoothing problem and the size of a topological manifold. *Osaka J. Math.* 3 (1966), 293-301. (R. H. Szczarba) 35 #6148
On the differentiable pinching problem. *Osaka J. Math.* 4 (1967), 279-287. (S. Takizawa) 37 #2133
On metrizing differentiable structures. (Japanese) *Sûgaku* 20 (1968), 75-85. (K. Nomizu) 39 #967
On a homology theory associated to foliations. *Nagoya Math. J.* 38 (1970), 53-61. (J. A. Schafer) 41 #4574

Shikin, I. S. See Šikin, I. S.

Shikin, V. B. See Šikin, V. B.

Shilkret, Niel
Spectra of algebraic elements of algebras. *Math. Student* 37 (1969), 193-194. (E. M. Patterson) 42 #302
Non-Archimedean Banach algebras. *Duke Math. J.* 37 (1970), 315-322. (Robert L. Ellis) 41 #5976
Non-Archimedean Gelfand theory. *Pacific J. Math.* 32 (1970), 541-550. (L. Narici) 41 #2401
Maxitive measure and integration. *Nederl. Akad. Wetensch. Proc. Ser. A* 74 = *Indag. Math.* 33 (1971), 109-116. (W. J. Wilbur) 44 #5423

Shilman, M. B.
(with Kranc, G. M.) An application of functional analysis to time optimal control of linear discrete systems with output constraints. *J. Franklin Inst.* 290 (1970), 137-147. (G. M. Ewing) 42 #5673

Shilov, G. See Šilov, G. E.

Shima, Hirohiko
On homogeneous complex manifolds with negative definite canonical hermitian form. *Proc. Japan Acad.* 46 (1970), 209-211. (Y. Matsushima) 43 #2736

Shima, Kazuhisa
(with Konuma, Michiji; Wada, Morihiro) Simple Lie algebras of rank 3 and symmetries of elementary particles in the strong interaction. *Progr. Theoret. Phys. Suppl. No.* 28 (1963), 1-128. (A. C. T. Wu) 32 #894
(with Tanabe, Kôsai) An approach to the symmetry of hadrons on the basis of the Lie group Sp(3). I. *Progr. Theoret. Phys.* 34 (1965), 20-45. (Jean Nuyts) 32 #7059
(with Tanabe, Kosai) Isoparity and simple Lie group. *J. Mathematical Phys.* 8 (1967), 657-662. (A. Kihlberg) 35 #7660

Shima, Masasuke
(with Sawaragi, Yoshikazu) On the conditions under which static optimum control can be improved by dynamic controls. (Three dimensional control system which contains control variables linearly). (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 637-645. (Authors' summary) 42 #4271
(with Sawaragi, Yoshikazu) On the optimality of the boundary control for the non-linear control system with controls appearing linearly. *Internat. J. Control* (1) 13 (1971), 131-143. (M. Q. Jacobs) 44 #5849

Shima, Yaakov
(with Hall, Laurence S.) Electrostatic instabilities in a plasma with anisotropic velocity distribution. *Phys. Rev.* (2) 139 (1965), A1115-A1116. (Russell M. Kulsrud) 32 #8932

Shimada, Nobuo
(with Iwai, Akira) A remark on resolutions for Hopf algebras. *Publ. Res. Inst. Math. Sci. Ser. A* 1 (1965/66), 187-198. (E. J. Taft) 33 #7390
(with Iwai, Akira) On the cohomology of some Hopf algebras. *Nagoya Math. J.* 30 (1967), 103-111. (A. Liulevicius) 35 #6731
(with Uehara, Hiroshi; Brenneman, Frank; Iwai, Akira) Triple cohomology of algebras and two term extensions. *Publ. Res. Inst. Math. Sci.* 5 (1969), 267-285. (M. Barr) 41 #5467

Shimada, Teruaki
(with Takamatsu, Takeichiro; Hashimoto, Iori) A steady state optimization problem of a combined distributed parameter system from the viewpoint of sensitivity analysis. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 225-234. (Authors' summary) 42 #4280

Shimakura, Norio
The kernel representation of the fractional power of the strongly elliptic operator. *J. Math. Soc. Japan* 16 (1964), 352-366. (H. G. Garnir) 34 #1690
Sur les domaines des puissances fractionnaires d'opérateurs. *Bull. Soc. Math. France* 96 (1968), 265-288. (K. Gustafson) 39 #822
Sur une certaine classe d'opérateurs différentiels ordinaires, elliptiques et dégénérés. *Proc. Japan Acad.* 44 (1968), 944-948. (P. G. Rooney) 40 #7873
Problèmes aux limites généraux du type elliptique dégénéré. *J. Math. Kyoto Univ.* 9 (1969), 275-335. (Moshe Marcus) 40 #7628
Les puissances fractionnaires de $1-\Delta$ sous les conditions de certaines dérivées obliques. *J. Math. Kyoto Univ.* 9 (1969), 363-379. (D. Fujiwara) 41 #4304
Quelques exemples des ζ-fonctions d'Epstein pour les opérateurs elliptiques dégénérés du second ordre. *Proc. Japan Acad.* 45 (1969), 866-871. (S. Delache) 41 #7492

Shimamoto, Yoshio
(with Marr, R. B.) On a Lee model with a four-point coupling. (Italian summary) *Nuovo Cimento* (10) 31 (1964), 599-614. (Authors' summary) 29 #3176

Shimamura, Isao
Bounds on weighted mean errors of approximate wave functions. I. Theory. *J. Phys. Soc. Japan* 28 (1970), 1057-1061. (Author's summary) 44 #6275

Shimanov, S. N. See Šimanov, S. N.

Shimasaki, Masaaki
(with Kiyono, Takeshi) Boundary contraction solution of the Neumann and mixed boundary value problems of the Laplace equation. *Numer. Math.* 16 (1970/71), 442-450. (M. Haimovici) 44 #3506

Shimauchi, Gô-ichi
Programming of proofs. (Japanese) *Sûgaku* 15 (1963), 48-55. (K. Ono) 31 #2126

Shimazaki, Toshio
(with Kishi, Masanori) Remarks on a continuous kernel. *Proc. Japan Acad.* 41 (1965), 363-367. (H. Tanaka) 32 #5908
(with Ogi, Nobutaka) On the limit sets of inversion groups. *Sci. Rep. Kanazawa Univ.* 13 (1968), 1-7. (A. F. Beardon) 38 #4680
(with Akaza, Tohru; Morita, Katuhiko) Remark on the construction of nomograms in R^3. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 16(20) (1970), *fasc.* 3-4, *secţ. I*, 87-90. (J. G. L. Michel) 43 #8269

Shimbo, Masaru
An extension of the concept of Einsteinian coordinate with reference to asymmetric stress. (Japanese summary) *RAAG Res. Notes* (3) *No.* 150 (1970), i + 20 *pp.* (R. Behari) 42 #1484

Shimemura, Etsujiro
(with Komatsu, Yuichiro) Optimal problems in system with retarded control. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 28 (1964), 23-25. (From the authors' introduction) 31 #5754
Controllability of linear systems with delays. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 30 (1965), 19-25. (P. E. Sarachik) 32 #7289
(with Matsumoto, T.) The Kuhn-Tucker conditions and multistage games. *J. Math. Anal. Appl.* 23 (1968), 269-283. (J. H. Case) 37 #3845
(with Matsumoto, T.) Duality in multistage games. *J. Math. Anal. Appl.* 23 (1968), 531-539. (J. H. Case) 38 #932

(with Sasai, Hitoshi) On convergence of approximating solutions of a class of linear optimal control problems of distributed parameter systems. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 3-4, 39-47. (J. Cullum) 41 #9627

(with Akashi, Kichizo) A discrete optimal control problem of systems with distributed parameters. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 43 (1969), 37-44. (R. Liu) 40 #3958

Optimal problem in control system with time-delay. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 33 (1969), 11-20. (A. B. Kuržanskiĭ) 42 #649

(with Sasai, Hitoshi) On the convergence of approximating solutions for linear distributed parameter optimal control problems. *SIAM J. Control* 9 (1971), 263-273. (A. Pasquali) 44 #8024

Shimi, I. N.

(with Fairweather, D. W.) An immigration and fragmentation stochastic process. *Math. Biosci.* 9 (1970), 93-104. (D. L. Iglehart) 43 #4139

Shimizu, Akinobu

Boundary value problems for the biharmonic equation and Markov processes on the boundary. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 103-108 (1969). (P. A. Meyer (Zbl 175, 121)) 41 #7142

(with Hitsuda, Masuyuki) The central limit theorem for additive functionals of Markov processes and the weak convergence to Wiener measure. *J. Math. Soc. Japan* 22 (1970), 551-566. (T.-C. Sun) 42 #8565

Shimizu, Hideo

On zeta functions of quaternion algebras. *Ann. of Math.* (2) 81 (1965), 166-193. (M. Eichler) 30 #1998

Shimizu, Hiroshi

Time-correlation function of molecular random motion and shape of spectral bands. *J. Chem. Phys.* 43 (1965), 2453-2465. (R. G. Gordon) 33 #2345

Shimizu, Ryoichi

On the decomposition of infinitely divisible characteristic functions with a continuous Poisson spectrum. *Ann. Inst. Statist. Math.* 16 (1964), 387-407. (E. Lukacs) 30 #1530

(with Sibuya, Masaaki; Yoshimura, Isao) Negative multinomial distribution. *Ann. Inst. Statist. Math.* 16 (1964), 409-426. (M. Dwass) 30 #1572

Certain class of infinitely divisible characteristic functions. *Ann. Inst. Statist. Math.* 17 (1965), 115-132. (E. Lukacs) 32 #480

Remarks on sufficient statistics. *Ann. Inst. Statist. Math.* 18 (1966), 49-55. (J. Machek) 34 #8547

Characteristic functions satisfying a functional equation. I. *Ann. Inst. Statist. Math.* 20 (1968), 187-209. (R. Fischler) 37 #6981

Characteristic functions satisfying a functional equation. II. *Ann. Inst. Statist. Math.* 21 (1969), 391-405. (R. Fischler) 41 #7745 (E)

Corrections to: "Characteristic functions satisfying a functional equation. II". *Ann. Inst. Statist. Math.* 22 (1970), 185-186. (Editors) 42 #8541

On the domain of partial attraction of semi-stable distributions. *Ann. Inst. Statist. Math.* 22 (1970), 245-255. (E. Lukacs) 43 #5591

Shimizu, Tamio

A stochastic approximation method for optimization problems. *J. Assoc. Comput. Mach.* 16 (1969), 511-516. (Author's summary) 39 #5150

Shimizu, Tamon

On the irreducible denominator of $(ai-b/m)$ in $R(i)$. (Japanese) *J. College Arts Sci. Chiba Univ.* 4 (1965), *no.* 3, 221-224. (T. Kubota) 35 #2815

On the Diophantus equation $x^3 + y^3 = mz^2$. *J. College Arts Sci. Chiba Univ.* 5 (1968), *no.* 2, 205-206 (1969). (B. Stolt) 40 #7196

On the Diophantus equation $x^3 + y^3 + z^3 - 3xyz = mt^2$. *J. College Arts Sci. Chiba Univ.* 5 (1968), *no.* 2, 207-208 (1969). (B. Stolt) 40 #7197

Shimizu, Tatsujiro

(with Sugibayashi, Masutaro) Computer-programming for problem-solving of verbal problems in arithmetic and algebra. *Math. Japon.* 8 (1963), 47-57. (A. D. Booth) 29 #1772

Non-linear differential equations with discontinuous terms. II. *Math. Japon.* 10 (1965), 49-62. (T. Ura) 33 #2888

Numerical study on response curves for Duffing's differential equation. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 329-345. *Benjamin, New York,* 1967. 36 #6151

Accumulation of round-off errors in some linear multi-step methods for ordinary differential equations. *TRU Math.* 3 (1967), 41-47. (A. R. Mitchell) 36 #7337

Shimizu, Tetsuhiro

On a problem of vanishing algebras. *Proc. Japan Acad.* 46 (1970), 3-4. (T. S. Liu) 41 #7449

Shimogaki, Tetsuya

(with Ishii, Jyun) On Haar functions in the space $L_{M(\xi,t)}$. *J. Fac. Sci. Hokkaido Univ. Ser. I* 17, (1963), 55-63. (R. O'Neil) 31 #5077

On the structure of quasi-modular spaces. *Studia Math.* 22 (1963), 251-263. (R. O'Neil) 31 #5074

On an equivalence relation on semi-ordered linear spaces. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 41-55. (I. G. Amemiya) 30 #5149

A characterization of modular norms in terms of similar transformations. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964/65), 141-152. (J. Albrycht) 30 #3362

Exponents of norms in semi-ordered linear spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 135-140. (A. C. Zaanen) 31 #3855

Hardy-Littlewood majorants in function spaces. *J. Math. Soc. Japan* 17 (1965), 365-373. (J. Peetre) 32 #357

On the complete continuity of operators in an interpolation theorem. *J. Fac. Sci. Hokkaido Univ. Ser. I* 20 (1968), 109-114. (K. Sundaresan) 39 #2011

(with Lorentz, G. G.) Interpolation theorems for operators in function spaces. *J. Functional Analysis* 2 (1968), 31-51. (W. A. J. Luxemburg) 41 #2424

(with Lorentz, G. G.) Majorants for interpolation theorems. *Publ. Ramanujan Inst. No.* 1 (1968/69), 115-122. (L. Tartar) 43 #954

An interpolation theorem on Banach function spaces. *Studia Math.* 31 (1968), 233-240. (A. C. Zaanen) 38 #2618

(with Lorentz, G. G.) Interpolation theorems for spaces Λ. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach, 1968), pp.* 94-98. *Birkhäuser, Basel,* 1969. (W. A. J. Luxemburg) 41 #2423

(with Ishii, J.) Composition operators and imbedding theorem in spaces *X*. *Bull. Acad. Polon Sci. Sér. Sci. Math. Astronom. Phy* 18 (1970), 379-383. (K. Sundaresan) 42 #5028

A note on norms of comparession operators on function spaces. *Proc. Japan Acad.* 46 (1970), 239-242. (E. R. Deal) 42 #6636

Shimony, Abner

Role of the observer in quantum theory. *Amer. J. Phys.* 31 (1963), 755-773. (Editors) 31 #1026

Shimpuku, Taro

Duffin-Kemmer algebra as a ring and its representations. *J. Math. Anal. Appl.* 27 (1969), 181-207. (A. J. Coleman) 40 #180 (E

Addendum: "Duffin-Kemmer algebra as a ring and its representations". *J. Math. Anal. Appl.* 31 (1970), 717-720. (A. J. Coleman) 41 #8459

Shimrat. Moshe

A theorem on nets. *Canad. Math. Bull.* 9 (1966), 343-346. (R. Engelking) 33 #7978

Shimshoni, Michael

(See Ljapunov, A. M., 34 #7903)

Shimura, Goro

Automorphic functions and number theory. II. (Japanese) *Sûgaku* 13 (1961/62), 65-80. (T. Kubota) 35 #2862

On Dirichlet series and abelian varieties attached to automotphic forms. *Ann. of Math.* (2) 76 (1962), 237-294. (M. Eichler) 33 #1292

On the class-fields obtained by complex multiplication of abelian varieites. *Osaka Math. J.* 14 (1962), 33-44. (A. Weil) 30 #1128

On the field of definition for a field of automorphic functions. *Ann. of Math.* (2) 80 (1964), 160-189. (A. Weil) 29 #4739

Class-fields and automorphic functions. *Ann of Math.* (2) 80 (1964), 444-463. (M. Eichler) 30 #65

On purely transcendental fields of automorphic functions of several variables. *Osaka J. Math.* 1 (1964), *no.* 1, 1-14. (R. C. Gunning) 31 #388

On the field of definition for a field of automorphic functions. II. *Ann. of Math.* (2) 81 (1965), 124-165. (A. Weil) 30 #2010

(with Kuga, Michio) On the zeta function of a fibre variety whose fibres are abelian varieties. *Ann. of Math.* (2) 82 (1965), 478-539. (A. Borel) 32 #2413

Moduli of abelian varieties and number theory. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo., 1965), pp.* 312-332. *Amer. Math. Soc., Providence, R. I.,* 1966. (M. Miwa) 38 #5789

Moduli and fibre systems of abelian varieties. *Ann of Math.* (2) 83 (1966), 294-338. (S. Koizumi) 33 #7339

On the field of definition for a field of automorphic functions. III. *Ann. of Math.* (2) 83 (1966), 377-385. (M. Eichle 32 #7514

A reciprocity law in non-solvable extensions. *J. Reine Angew Math.* 221 (1966), 209-220. (K. Iwasawa) 32 #5637

Construction of class fields and zeta functions of algebraic curves. *Ann. of Math.* (2) 85 (1967), 58-159. (M. Eichler) 34 #4268

Algebraic number fields and symplectic discontinuous groups. *Ann. of Math.* (2) 86 (1967), 503-592. (M. Eichler) 36 #5100

Discontinuous groups and abelian varieties. *Math. Ann.* 168 (1967), 171-199. (W. Casselman) 37 #6289

* Automorphic functions and number theory. Lecture Notes in Mathematics, No. 54. *Springer-Verlag, Berlin-New York,* 1968. v + 69 pp. (S. Chowla) 38 #3229

Number fields and zeta functions associated with discontinuous groups and algebraic varieties. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 290-299. *Izdat. "Mir", Moscow,* 1968. (H. Popp) 40 #1396

Algebraic varieties without deformation and the Chow variety. *J. Math. Soc. Japan* 20 (1968), 336-341. (S. Lubkin) 36 #6416

Local representations of Galois groups. *Ann. of Math.* (2) 89 (1969), 99-124. (K. G. Ramanathan) 42 #7639

On canonical models of arithmetic quotients of bounded symmetric domains. *Ann. of Math.* (2) 91 (1970), 144-222. (K. Iyanaga) 41 #1686

On the zeta-function of an abelian variety with complex multiplication. *Ann. of Math.* (2) 94 (1971), 504-533. (A. N. Andrianov) 44 #5287

Shimura, Toshio

A note on composition and rejection method. (Japanese. English summary) *Proc. Inst. Statist. Math.* 15 (1967), 134-139. (S. Ikeda) 37 #3674

(with Takahasi, Koiti) On the moments and the examples of the distribution of the time to extinction in the Galton-Watson process. (Japanese. English summary) *Proc. Inst. Statist. Math.* 15 (1967), 161-166. 37 #2329

Shin, Ernest E. H.

Born reciprocity principle and unitary symmetry. *J. Mathematical Phys.* 6 (1965), 1307-1309. (W. D. McGlinn) 31 #6596

Space-time theory of elementary particles. I. Born reciprocity principle. *J. Mathematical Phys.* 7 (1966), 167-173. (E. M. Corson) 32 #5202

Space-time theory of elementary particles. II. Complex Minkowski space formalism. *J. Mathematical Phys.* 7 (1966), 174-180. (E. M. Corson) 32 #5203

Shinagawa, Kohsei

(with Washimiya, Shûkô; Sugano, Satoru) Effective Hamiltonian for non-Kramers doublets. *Phys. Rev. B* (3) 1 (1970), 2976-2985. (Gerald Rosen) 41 #4936

Shinahr, Ilka

(with Yoeli, Michael) Group functions and multi-valued cellular cascades. *Information and Control* 15 (1969), 369-376. (Authors' summary) 40 #4011

Shinbrot, Marvin

A fixed point theorem, and some applications. *Arch. Rational Mech. Anal.* 17 (1964), 255-271. (G. J. Minty) 29 #6323

Eigenfunction expansions associated with an integral operator. *Trans. Amer. Math. Soc.* 117 (1965), 143-156. (K. Yosida) 30 #2367

(with Kaniel, Shmuel) The initial value problem for the Navier-Stokes equations. *Arch. Rational Mech. Anal.* 21 (1966), 270-285. (G. Prodi) 33 #442

(with Kaniel, Shmuel) Smoothness of weak solutions of the Navier-Stokes equations. *Arch. Rational Mech. Anal.* 24 (1967), 302-324. (G. Prodi) 35 #5783

(with Kaniel, Shmuel) A reproductive property of the Navier-Stokes equations. *Arch. Rational Mech. Anal.* 24 (1967), 363-369. (G. Prodi) 35 #4572

(with Friedman, Avner) The initial value problem for the linearized equations of water waves. *J. Math. Mech.* 17 (1967), 107-180. (J. L. Lions) 35 #5779

(with Friedman, Avner) Volterra integral equations in Banach space. *Trans. Amer. Math. Soc.* 126 (1967), 131-179. (A. C. Zaanen) 34 #6571

(with Friedman, Avner) Nonlinear eigenvalue problems. *Acta Math.* 121 (1968), 77-125. (J. B. McLeod) 40 #3337

On the range of general Wiener-Hopf operators. *J. Math. Mech.* 18 (1968/69), 587-601. (D. N. Clark) 40 #3375

(with Friedman, Avner) The initial value problem for the linearized equations of water waves. II. *J. Math. Mech.* 18 (1968/69), 1177-1193. (F. Ursell) 42 #8104

Asymptotic behavior of solutions of abstract wave equations. *Proc. Amer. Math. Soc.* 19 (1968), 1403-1406. (C. R. Putnam) 37 #6801

(with Devinatz, Allen) General Wiener-Hopf operators. *Trans. Amer. Math. Soc.* 145 (1969), 467-494. (D. N. Clark) 40 #4800

An inversion formula for certain general Wiener-Hopf operators. *Arch. Rational Mech. Anal.* 37 (1970), 344-362. (G. O. Okikiolu) 41 #2472

Fractional derivatives of solutions of the Navier-Stokes equations. *Arch. Rational Mech. Anal.* 40 (1970/71), 139-154. (W. Velte) 42 #4900

The solution of some integral equations of Wiener-Hopf type. *Quart. Appl. Math.* 28 (1970/71), 15-36. (J. D. DePree) 42 #4977

Shinkai, Kenzo

A priori estimates for certain differential operators with double characteristics. *Proc. Japan Acad.* 41 (1965), 60-64. (L. Arkeryd) 35 #5754

(with Kumano-go, Hitoshi) The characterization of differential operators with respect to the characteristic Cauchy problem. *Osaka J. Math.* 3 (1966), 155-162. (A. M. White) 34 #489

A note on regularity of null solutions. *Proc. Japan Acad.* 43 (1967), 134-137. (A. M. White) 36 #2948

Shinoda, Shoji

Finding all possible directed trees of a directed graph. *Electron. Commun. Japan* 51 (1968), *no.* 7, 45-46. (A. Lehman) 43 #3159

On Hamilton circuits of a directed graph. *Electron. Commun. Japan* 51 (1968), *no.* 7, 46-47. (H. Rohleder) 41 #1576

Shinohara, Masahiko

On the application of the potential theory to martingales. *Proc. Japan Acad.* 44 (1968), 99-103. (H. P. McKean, Jr.) 37 #6995

Shinohara, Yaichi

On the signature of knots and links. *Trans. Amer. Math. Soc.* 156 (1971), 273-285. (H. E. Debrunner) 43 #1172

Higher dimensional knots in tubes. *Trans. Amer. Math. Soc.* 161 (1971), 35-49. (D. W. L. Sumners) 44 #4763

(with Sumners, D. W.) Homology invariants of cyclic coverings with application to links. *Trans. Amer. Math. Soc.* 163 (1971), 101-121. (J. M. McPherson) 44 #2223

Shinohara, Yoshitane

On the remainder terms of the optimal formulas. *J. Math. Tokushima Univ.* 1 (1967), 29-35. (A. R. Mitchell) 38 #867

A geometric method of numerical solution of nonlinear equations and error estimation by Urabe's proposition. *Publ. Res. Inst. Math. Sci.* 5 (1969), 1-9. (T. L. Saaty) 40 #2227

Shinozaki, Toshio

(with Machida, Toichi; Tanimura, Isao) Open- and short-circuit analysis of networks with applications to the element deviation problem. *Electron. Commun. Japan* 51 (1968), *no.* 5, 26-34. (B. Hazeltine) 40 #7028

Shinozaki, Yoshikata

On the equivalence of the Bernays-Gödel axiomatic set theory and the Zermelo-Fraenkel axiomatic set theory. (Japanese) *Math. Rep. College General Ed. Kyushu Univ.* 7 (1969), 13-21. (G. Takeuti) 43 #1826

Shinozawa, Shoji

(with Takahashi, Iwaro) The contracted simplex method. *NEC Res. Development No.* 11 (1968), 76-83. (A. Ben-Israel) 44 #1425

Shinozuka, Masanobu

Stresses in an incompressible viscoelastic-plastic thick-walled cylinder. *AIAA J.* 2 (1964), 1800-1804. (Author's summary) 29 #5464

On the two sided barrier problem. *J. Appl. Probability* 2 (1965), 79-87. (P. E. Ney) 31 #2759

Shintani, Hiroshi

(with Kasai, Tamotsu; Takeda, Masaru) Four series of graphs derived from a full graph. *Bull. Univ. Osaka Prefecture Ser. A* 19 (1970), *no.* 2, 299-313. (D. R. Lick) 44 #2651

Shintani, Hisayoshi

Approximate computation of errors in numerical integration of ordinary differential equations by one-step methods. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 97-120. (H. J. Stetter) 31 #6383

Note on Miller's recurrence algorithm. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 121-133. (J. C. P. Miller) 34 #933

Direct methods for the numerical solution of partial difference equations for a rectangle. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 75-90. (B. Hubbard) 34 #977

On a one-step method of order 4. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 91-107. (T. E. Hull) 33 #8107

Two-step processes by one-step methods of order 3 and of order 4. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 183-195. (D. Elliott) 34 #7032

Direct solution of partial difference equations for a rectangle. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 17-53. (S. V. Parter) 39 #1124

Shintani, Takuro

On the decomposition of regular representation of the Lorentz group on a hyperboloid of one sheet. *Proc. Japan Acad.* 43 (1967), 1-5. (A. O. Barut) 36 #3920

On certain square-integrable irreducible unitary representations of some $\mathfrak{p}$-adic linear groups. *J. Math. Soc. Japan* 20 (1968), 522-565. (M. Friedberg) 38 #2252

On certain square integrable irreducible unitary representations of some $\mathfrak{p}$-adic linear groups. *Proc. Japan Acad.* 44 (1968), 1-3. (M. Friedberg) 37 #6384

Some series of square integrable irreducible unitary representations of special linear groups over a $\mathfrak{p}$-adic field. (Japanese) *Sûgaku* 19 (1968), 231-239. (M. Saito) 43 #2161

On Dirichlet series whose coefficients are class numbers of integral binary cubic forms. *J. Math. Soc. Japan* 24 (1972), 132-188. (B. Gordon) 44 #6619

Shioda, Tetsuji
On the graded ring of invariants of binary octavics. *Amer. J. Math.* 89 (1967), 1022-1046. (A. Evyatar (Gutwirth)) 36 #3790
Elliptic modular surfaces. I, II. *Proc. Japan Acad.* 45 (1969), 786-790; *ibid.* 45 (1969), 833-837. (C. M. Williams) 42 #275

Shiohama, Katsuhiro
Surfaces of curvatures $\lambda = \mu = 0$ in E^4. *Kōdai Math. Sem. Rep.* 19 (1967), 75-79. (M. do Carmo) 35 #945
Cylinders in Euclidean space E^{2+N}. *Kōdai Math. Sem. Rep.* 19 (1967), 225-228. (T. J. Willmore) 35 #7274
(with Ôtsuki, Tominosuke) A theory of ruled surfaces in E^4. *Kōdai Math. Sem. Rep.* 19 (1967), 370-380. (R. Roşca) 36 #4447
(with Takagi, Ryoichi) A characterization of a standard torus in E^3. *J. Differential Geometry* 4 (1970), 477-485. (J. R. Vanstone) 43 #2646
(with Nakagawa, Hisao) On the totally geodesic submanifolds in locally symmetric spaces. *J. Math. Soc. Japan* 22 (1970), 342-352. (O. Loos) 42 #2395
Minimal immersions of compact Riemannian manifolds in complete and non-compact Riemannian manifolds. *Kōdai Math. Sem. Rep.* 22 (1970), 77-81. (N. J. Hicks) 42 #1021
(with Nakagawa, Hisao) On Riemannian manifolds with certain cut loci. *Tôhoku Math. J.* (2) 22 (1970), 14-23. (S. Kobayashi) 41 #6108
On complete non-compact Riemannian manifolds with certain properties. *Tôhoku Math. J.* (2) 22 (1970), 76-94. (G. Tsagas) 41 #6110
(with Nakagawa, H.) On Riemannian manifolds with certain cut loci. II. *Tôhoku Math. J.* (2) 22 (1970), 357-361. (S. Kobayashi) 43 #3964
(with Nakagawa, Hisao) Notes on minimal immersions. *J. Math. Soc. Japan* 23 (1971), 409-416. (Y. Katsurada) 43 #8011
(with Sugimoto, M.) On the differentiable pinching problem. Improved by. H. Karcher. *Math. Ann.* 195 (1971), 1-16. (W. Klingenberg) 44 #7475

Shiokawa, Iekata
Ergodic properties of piecewise linear transformations. *Proc. Japan Acad.* 46 (1970), 1122-1125. (W. Parry) 44 #6938

Shiozaki, Keizo
Fibering in a foliated Riemannian manifold. *TRU Math.* 4 (1968), 21-28. (G. Tsagas) 42 #3716

Shiozaki, Takanori
U(3) × U(3) chiral symmetry. *Progr. Theoret. Phys. Suppl. (Extra number,* 1968), 44-68. (G. R. Allcock) 39 #6582

Shipilin, A. V. See Šipilin, A. V.

Shipman, David C.
A new proof of a combinatorial identity. *Math. Mag.* 43 (1970), 162-163. (H. Gupta) 41 #8253

Shipman, Jerome S.
(with Roberts, S. M.) The Kantorovich theorem and two-point boundary value problems. *IBM J. Res. Develop.* 10 (1966), 402-406. (G. N. Lance) 34 #2198
(with Roberts, S. M.) Some results in two-point boundary value problems. *IBM J. Res. Develop.* 11 (1967), 383-388. (Authors' summary) 35 #5144
(with Roberts, S. M.) Continuation in shooting methods for two-point boundary value problems. *J. Math. Anal. Appl.* 18 (1967), 45-58. (L. Collatz) 34 #7029
(with Roberts, S. M.) Justification for the continuation method in two-point boundary value problems. *J. Math. Anal. Appl.* 21 (1968), 23-30. (G. N. Lance) 36 #3511
(with Roberts, S. M.; Ellis, W. J.) A perturbation technique for nonlinear two-point boundary value problems. *SIAM J. Numer. Anal.* 6 (1969), 347-358. (G. N. Lance) 40 #8277
(with Roberts, S. M.) The methods of adjoints and complementary functions in two-point boundary value problems. *Internat. J. Comput. Math.* 2, 269-277 (1970). 43 #5735
(with Roberts, S. M.) Multipoint solution of two-point boundary-value problems. *J. Optimization Theory Appl.* 7 (1971), 301-318. (P. G. Ciarlet) 43 #5736

Shipp, R. Dale
Table of Dedekind sums. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 259-263. (Author's summary) 32 #7515

Shippy, D. J.
(with Robe, T. R.) On the Liapunov instability of the oscillating pendulum. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 5 (1970), 109-112. (P. Hagedorn) 43 #5768

Shir, C. C.
(with Joseph, D. D.) Convective instability in a temperature and concentration field. *Arch. Rational Mech. Anal.* 30 (1968), 38-80. (Editors) 40 #3791

Shiraishi, Risai
(with Hirata, Yukio) On a space H^f. *J. Sci. Hiroshima Univ. Ser. A-I* 26 (1962), 3-19. (J. L. B. Cooper) 31 #599
On θ-convolutions of vector valued distributions. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 27 (1963), 173-212. (A. Martineau) 30 #446
(with Hirata, Yukio) Convolution maps and semi-group distributions. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 71-88. (G. Marinescu) 30 #1396
(with Itano, Mitsuyuki) On the multiplicative products of distributions. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 223-235. (V. Grušin (RŽMat 1966 #2 B501)) 36 #1980
(with Tôgô, Shigeaki) Note on *F*-operators in locally convex spaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 243-251. (H. H. Schaefer) 33 #1741
On the value of distributions at a point and the multiplicativ products. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 89-104. (J. L. Griffith) 36 #1979

Shiraiwa, Kenichi
A remark on differentiable structures on real projective $(2n - 1)$-spaces. *Nagoya Math. J.* 27 (1966), 357-360. (R. H. Szczarba) 33 #3305
A note on tangent bundles. *Nagoya Math. J.* 29 (1967), 259-267. (J.-P. Meyer) 35 #1042
A note on tangential equivalences. *Nagoya Math. J.* 33 (1968), 53-56. (N. H. Kuiper) 38 #1694

Shîrakawa, Hiroshi
A topological characterization of a Lebesgue space. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 75-78 (1969). (A. Revuz) 41 #7059

Shirakawa, Isao
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) Planar decomposition of a complete graph. *Electron. Commun. Japan* 50 (1967), *no.* 11, 19-25. (S. T. Tan) 39 #97
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) On the decomposition of a complete graph into planar subgraphs. *J. Franklin Inst.* 283 (1967), 379-388. (W. T. Tutte) 35 #2781
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) On the decomposition of a complete graph into planar graphs. *Tech. Rep. Osaka Univ.* 17 (1967), 1-8. (Editors) 35 #5352
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) Planar decomposition of a complete bipartite graph. *Tech. Rep. Osaka Univ.* 17 (1967), 221-227. (Editors) 38 #2045
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) On the planar decomposition of a complete bipartite graph. *SIAM J. Appl. Math.* 16 (1968), 408-416. (W. T. Tutte) 37 #5119
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) Thickness of some class of complete bipartite graphs. *Tech. Rep. Osaka Univ.* 18 (1968), 453-458. (F. Harary) 42 #2971
(with Takahashi, Hiromitsu; Ozaki, Hiroshi) Synthesis of some classes of multivariable cascaded transmission-line networks. *Tech. Rep. Osaka Univ.* 18 (1968), 443-452. (B. J. Leon) 42 #2875

Shiraki, Mitsunobu
On finite topological spaces. *Rep. Fac. Sci. Kagoshima Univ.* 1 (1968), 1-8. (V. Krishnamurthy) 42 #5213a
Compactification of T_0-spaces. *Rep. Fac. Sci. Kagoshima Univ.* 1 (1968), 9-12. (H. Herrlich) 39 #7564
On finite topological spaces. II. *Rep. Fac. Sci. Kagoshima Univ.* 2 (1969), 1-15. (V. Krishnamurthy) 42 #5213b
Finite T_0-spaces and simplicial structures. *Rep. Fac. Sci. Kagoshima Univ.* 2 (1969), 17-28. (V. Krishnamurthy) 42 #5214
Compact Hausdorff spaces and inverse limit spaces. *Rep. Fac. Sci. Kagoshima Univ.* 3 (1970), 1-2. (D. R. Traylor) 43 #6876

Shiraki, Takanori
On countable-dimensional spaces. *Mem. Ehime Univ. Sect. II Ser. A* 5, *no.* 2, 5-6 (1965). (E. Nunnally) 40 #8029
On spaces with weak compactness. *Mem. Ehime Univ. Sect. II Ser. A* 5, *no.* 4, 25-29 (1967). (R. W. Bagley) 40 #1999
A note on *M*-spaces. *Proc. Japan Acad.* 43 (1967), 873-875. (D. R. Traylor) 37 #3518

Shirali, Satish
Symmetry in complex involutory Banach algebras. *Duke Math. J.* 34 (1967), 741-745. (A. B. Willcox) 36 #1988
On the Jordan structure of complex Banach *algebras. *Pacific J. Math.* 27 (1968), 397-404. (E. Størmer) 38 #6359 (E)
Correction to: "On the Jordan structure of complex Banach *algebras". *Pacific J. Math.* 31 (1969), 834. (Editors) 40 #6272
A note on Galerkin's method for nonlinear equations. *Aequationes Math.* 4 (1970), 198-200. (D. H. Hyers) 42 #799
(with Ford, James W. M.) Symmetry in complex involutory Banach algebras. II. *Duke Math. J.* 37 (1970), 275-280. (A. B. Willcox) 41 #5977

Symmetry of Banach *algebras without identity. *J. London Math. Soc.* (2) 3 (1971), 143-144. (P. Civin) 43 #2516

Representability of positive functionals. *J. London Math. Soc.* (2) 3 (1971), 145-150. (P. Civin) 43 #2517

Shiratani, Katsumi

On the Gauss-Hecke sums. *J. Math. Soc. Japan* 16 (1964), 32-38. (P. Roquette) 31 #1233

Bemerkung zur Theorie der Kreiskörper. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 121-126. (O. F. G. Schilling) 30 #3085

On some relations between Bernoulli numbers and class numbers of cyclotomic fields. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 127-135. (O. F. G. Schilling) 30 #3086

Über den 1^n-ten Potenzrestcharakter von 1 im Körper der 1^n-ten Einheitswurzeln. *J. Reine Angew. Math.* 223 (1966), 183-190. (K. Iwasawa) 33 #1303

Die Diskriminante der Weierstraßschen elliptischen Funktionen und das Reziprozitätsgesetz in besonderen imaginär-quadratischen Zahlkörpern. *Abh. Math. Sem. Univ. Hamburg* 31 (1967), 51-61. (E. Grosswald) 35 #6647

Über singuläre Invarianten elliptischer Funktionenkörper. *J. Reine Angew. Math.* 226 (1967), 108-115. (P. Roquette) 36 #5103

Ein Satz zu den Relativklassenzahlen der Kreiskörper. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 21 (1967), 132-137. (O. F. G. Schilling) 35 #6648

On certain formal Lie groups over $\mathfrak{p}$-adic integer rings. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 31-42. (J. Dieudonné) 37 #2762

Über Ordnungen und Gitter in lokalen Zahlkörpern. *Abh. Math. Sem. Univ. Hamburg* 33 (1969), 124-131. (O. F. G. Schilling) 39 #5518

On the Lubin-Tate reciprocity law. *J. Number Theory* 1 (1969), 494-499. (S. Chowla) 40 #1365

Note on isogenies of one-parameter formal Lie groups over local integer rings. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 23 (1969), 156-158. (M. Nagata) 43 #1995

Shirey, J. E,

(with Zink, R. E.) On unconditional bases in certain Banach function spaces. *Studia Math.* 36 (1970), 169-175. (J. T. Marti) 43 #899

Shirkov, D. V. See Širkov, D. V.

Shirley, E. D.

(with Stralka, A. R.) Homomorphisms on connected topological lattices. *Duke Math. J.* 38 (1971), 483-490. (Richard A. Alò) 43 #5497

Semi-local-connectedness and cut points in metric continua. *Proc. Amer. Math. Soc.* 31 (1972), 291-296. (F. Burton Jones) 44 #3294

Shirokov, Iu. M. See Širokov, Ju. M.

Shirokov, M. F. See Širokov, M. F.

Shirokov, P. A. See Širokov, P. A.

Shirokov, Yu. M. See Širokov, Ju. M.

Shirota, Taira

(with Asano, Kazuo) Remark on eigenfunctions of the operators $-\Delta + (qx)$. *Proc. Japan Acad.* 42 (1966), 1044-1049. (S. H. Gould) 35 #4613

(with Kubota, Koji) On certain condition for the principle of limiting amplitude. *Proc. Japan Acad.* 42 (1966), 1155-1160. (B. Bojarski) 38 #1397

(with Kubota, Kôji) The principle of limiting amplitude. *J. Fac. Sci. Hokkaido Univ. Ser. I* 20 (1967), 31-52. (V. Lakshmikantham) 38 #3568

(with Kubota, Kôji) On certain condition for the principle of limiting amplitude. II. *Proc. Japan Acad.* 43 (1967), 458-463. (V. Lakshmikantham) 38 #1398

(with Asano, Kazuo) On certain mixed problem for hyperbolic equations of higher order. *Proc. Japan Acad.* 45 (1969), 145-148. (A. Elcrat) 39 #5944

(with Asano, Kazuo) On certain mixed problem for hyperbolic equations of higher order. II. *Proc. Japan Acad.* 45 (1969), 388-393. (A. Elcrat) 40 #6069

(with Agemi, Rentarô) On certain mixed problem for hyperbolic equations of higher order. III. *Proc. Japan Acad.* 45 (1969), 854-858. (A. Elcrat) 41 #8826

(with Asano, Kazuo) On mixed problems for regularly hyperbolic systems. *J. Fac. Sci. Hokkaido Univ. Ser. I* 21 (1970), 1-45. (R. Hersh) 42 #3425

(with Agemi, Rentaro) On necessary and sufficient conditions for L^2-well-posedness of mixed problems for hyperbolic equations. *J. Fac. Sci. Hokkaido Univ. Ser. I* 21 (1970), 133-151. *(loose errata)* (A. Elcrat) 42 #6422

Shirtladze, I. A.

Hilbert-Schmidt operators and the absolute convergence of Fourier series. (Russian. Georgian and English summaries) *Sakharth. SSR Mech. Acad. Moambe* 63 (1971), 273-276. (E. Schock) 44 #5831

Shirtladze, R. L.

Synthesis of p-networks of contacts with random discrete states. (Russian) *Soobšč. Akad. Nauk Gruzin. SSR* 26 (1961), 181-186. (I. Cederbaum) 31 #6733

Optimal smoothing of distributions of Boolean random variables. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 40 (1965), 559-566. (E. M. Fels) 34 #6890; erratum, 43, p. 1695

The alignment of distributions of binary random sequences of functions in an algebra of logic. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 37 (1965), 37-44. (E. M. Fels) 31 #2776

A method of construction of a Boolean quantity with a prescribed probability distribution. (Russian) *Diskret. Analiz No.* 7 (1966), 71-80. 33 #7206

A certain method of Markov automaton synthesis. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 55 (1969), 549-552. (R. Theodorescu) 41 #3191

Shiryaev, A. N. See Širjaev, A. N.

Shisha, Oved

(with Esser, Martinus) A modified differentiation. *Amer. Math. Monthly* 71 (1964), 904-906. (T. H. Hildebrandt) 33 #4204

(with Mond, B.) Zeros of polynomials in several variables and fractional order differences of their coefficients. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 115-118. (M. Marden) 30 #233

On the structure of infrapolynomials with prescribed coefficients. *Pacific J. Math.* 14 (1964), 1039-1051. (M. Marden) 30 #231

(with Cargo, G. T.) On comparable means. *Pacific J. Math.* 14 (1964), 1053-1058. (E. F. Beckenbach) 30 #4874

(with Walsh, J. L.) On the location of the zeros of some infrapolynomials with prescribed coefficients. *Pacific J. Math.* 14 (1964), 1103-1109. (M. Marden) 30 #232

(with Walsh, J. L.) Extremal polynomials and the zeros of the derivative of a rational function. *Proc. Amer. Math. Soc.* 15 (1964), 753-758. (M. Marden) 29 #4876

On sequences of power series with restricted coefficients. *Amer. Math. Monthly* 72 (1965), 533-537. (J. Kajiwara) 36 #5316

An approach to Darboux-Stieltjes integration. *Amer. Math. Monthly* 72 (1965), 890-892. (Editors) 32 #1322

Monotone approximation. *Pacific J. Math.* 15 (1965), 667-671. (G. Sunouchi) 32 #2802

(with Mond, B.) The rapidity of convergence of the Hermite-Fejér approximation to functions of one or several variables. *Proc. Amer. Math. Soc.* 16 (1965), 1269-1276. (G. Meinardus) 33 #6221

(with Cargo, G. T.) The Bernstein form of a polynomial. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 79-81. (W. J. Kotzé) 33 #3441

(with Mond, B.) On the approximation of functions of several variables. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 211-218. (E. W. Cheney) 36 #578

The Chebyshev polynomial of best approximation to a given function on an interval. *Math. Comp.* 20 (1966), 266-271. (J. R. Rice) 33 #3015

Geometrical interpretations of the inequalities between the arithmetic, geometric and harmonic means. *Math. Mag.* 39 (1966), 268-269. 34 #2810

On infrapolynomials with prescribed center of gravity of their zeros. *SIAM J. Numer. Anal.* 3 (1966), 349-354. (M. Marden) 34 #4458

(See also Inequalities, 36 #1251)

(with Mond, B.) A difference inequality for operators in Hilbert space. *Blanch Anniversary Volume, pp.* 269-275. *Aerospace Research Lab., U. S. Air Force, Washington, D. C.,* 1967. (M. Nakamura) 35 #5958

(with Mond, B.) Ratios of means and applications. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio, 1965), pp.* 191-197. *Academic Press, New York,* 1967. (I. Olkin) 39 #2930a

(with Mond, B.) Bounds on differences of means. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio, 1965), pp.* 293-308. *Academic Press, New York,* 1967. (I. Olkin) 39 #2930b

(with Mond, B.) Differences of means. *Bull. Amer. Math. Soc.* 73 (1967), 328-333. (P. Ungar) 35 #3024

(with Mehr, C. B.) On involutions. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 19-20. (V. Ganapathy Iyer) 35 #2001

(with Mond, B.) The degree of approximation to periodic functions by linear positive operators. *J. Approximation Theory* 1 (1968), 335-339. (P. C. Sikkema) 39 #1883

Best approximation on some finite sets. *J. Math. Anal. Appl.* 21 (1968), 347-355. (Bruno Brosowski) 37 #1864

On Taylor's theorem. *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 5-6. (Author's summary) 38 #1222

(with Mond, B.) The degree of convergence of sequences of linear positive operators. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1196-1200. (D. R. Arterburn) 37 #5582

(with Cargo, G. T.) A metric space connected with generalized means. *J. Approximation Theory* 2 (1969), 207-222. (Z. Ziegler) 40 #2799

(See also Inequalities, II, 41 #8188)

(with Mond, B.) Difference and ratio inequalities in Hilbert space. *Inequalities, II (Proc. Second Sympos., U. S. Air Force Acad., Colo., 1967), pp.* 241-249. *Academic Press, New York,* 1970. (I. Olkin) 42 #1961

Shi Sheng-ming. See Shih Sheng-ming.

Shishkin, A. A. See Šiškin, A. A.

Shishkov, D. B. See Šiškov, D. B.

Shishmarev, I. A. See Šišmarev, I. A.

Shishmaryev, I. A. See Šišmarev, I. A.

Shi Shu-zhong. See Shih Shu-chung.

Shister, A. R. See Šister, A. R.

Shiue, Jau-shyong

On the Cesàro sequence spaces. *Tamkang J. Math.* 1 (1970), *no.* 1, 19-25. (D. P. Gupta) 41 #7342

A note on Cesàro function space. *Tamkang J. Math.* 1 (1970), *no.* 2, 91-95. (D. P. Gupta) 43 #2491

Shiva, S. G. S.

(with Sheng, C. L.) Multiple solid burst-error-correcting binary codes. *IEEE Trans. Information Theory* IT-15 (1969), 188-189. 39 #2518

Some results on binary codes with equidistant words. *IEEE Trans. Information Theory* IT-15 (1969), 328-329. 40 #7014

(with Tavares, S. E.) Detecting and correcting multiple bursts for binary cyclic codes. *IEEE Trans. Information Theory* IT-16 (1970), 643-644. (G. M. Tenengol'c) 43 #1746

(with Tavares, S. E.; Allard, P. E.) On the decomposition of cyclic codes into cyclic classes. *Information and Control* 18 (1971), 342-354. (R. C. Mullin) 44 #3766

Shivakumar, P. N.

Plane strain dislocations in orthotropy. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 670-675. (B. A. Boley) 30 #3608

A note on a paper by Milne-Thomson. *Proc. Cambridge Philos. Soc.* 61 (1965), 300-301. (L. M. Milne-Thomson) 30 #1663

Shi Xian-liang. See Shih Hsien-liang.

Shizgal, B.

(with Karplus, M.) Nonequilibrium contributions to the rate of reaction. I. Perturbation of the velocity distribution function. *J. Chem. Phys.* 52 (1969), 4262-4278. (K. Imre) 42 #8840

Shi Zhong-ci. See Shih Chung-tz'u.

Shizuma, Ryoji

(with Shikata, Yoshiaki) A note on variation theory. *Proc. Japan Acad.* 45 (1969), 517-521. (F. J. Almgren, Jr.) 40 #6588

Shizuta, Yasushi

Eigenfunction expansion associated with the operator $-\Delta$ in the exterior domain. *Proc. Japan Acad.* 39 (1963), 656-660. (F. H. Brownell) 33 #3620

(with Asano, Kiyoshi) On the theory of linear equations and Fredholm determinants. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 417-450. (F. Smithies) 39 #6116

Shkarlet, Yu. M. See Škarlet, Ju. M.

Shkil, N. I. See Škīl', M. Ī.

Shklarsky, D. O. See Škljarskiĭ, D. O.

Shkliarsky, D. O. See Škljarskiĭ, D. O.

Shklyarov, L. I. See Škljarov, L. Ī.

Shliomis, M. I. See Šliomis, M. I.

Shlom, E.

(with Peritz, E.) Testing for linear contagion—inverse sampling. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 388-395. (Authors' summary) 42 #3908

Shmelov, V. P. See Šmelov, V. P.

Shmidt, A. G.

(with Moiseev, N. N.) Asymptotic methods in the theory of optimum correction for systems with slowly varying parameters. *J. Optimization Theory Appl.* 3 (1969), 141-152. (S. E. Dreyfus) 39 #6139

Shmuely, Zahava

On strongly countable-dimensional sets. *Duke Math. J.* 38 (1971), 169-173. (E. Nunnally) 44 #2215

Shmulian, Yu. L. See Šmul'jan, Ju. L.

Shmyglevskii, Iu. D. See Šmyglevskiĭ, Ju. D.

Shmyglevsky, Yu. D. See Šmyglevskiĭ, Ju. D.

Shneyder, B. N. See Šneĭder, B. N.

Shniad, Harold

The equivalence of Von Zeipel mappings and Lie transforms. *Celestial Mech.* 2 (1970/71), 114-120. (N. P. Bhatia) 42 #5482

Shnider, Steven

Classification of the real infinite simple and real infinite primitive Lie algebras. *Proc. Nat. Acad. Sci. U.S.A.* 64 (1969), 466-467. (I. Stewart) 43 #7482

The classification of real primitive infinite Lie algebras. *J. Differential Geometry* 4 (1970), 81-89. (V. Guillemin) 44 #2792

Shnidman, D. A.

(with Tufts, D. W.) Optimum waveforms subject to both energy and peak-value constraints. *Proc. IEEE* 52 (1964), 1002-1007. (Y. H. Ku) 31 #1109

Shnol', É. É. See Šnol', È. È.

Shock, Robert C.

Nil subrings in finiteness conditions. *Amer. Math. Monthly* 78 (1971), 741-748. (S. Williamson) 44 #6743

Essentially nilpotent rings. *Israel J. Math.* 9 (1971), 180-185. (E. P. Armendariz) 43 #3297

Injectivity, annihilators and orders. *J. Algebra* 19 (1971), 96-103. (M. Teply) 43 #4861

Shockley, James E.

(with Hursey, R. J.) On the totient functions of Jordan and Zsigmondy. *Amer. Math. Monthly* 73 (1966), 608-610. (R. J. Levit) 34 #132

On the functional equation $F(mn)F((m,n)) = F(m)F(n)f((m,n))$. *Pacific J. Math.* 18 (1966), 185-189. (T. M. Apostol) 33 #2597

* Introduction to number theory. *Holt, Rinehart and Winston, Inc., New York-Toronto, Ont.-London,* 1967. viii + 247 *pp.* (R. A. Rankin) 35 #1535

Shoemaker, E. M.

Creep rupture of rotating disks and thin shells of revolution. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 607-610. (F. J. Lockett) 32 #8605

A nonlinear theory of plasticity for plane strain. *Quart. Appl. Math.* 24 (1966), 19-27. (P. G. Hodge, Jr.) 33 #2054

Shoenfield, Joseph R.

The problem of predicativity. *Essays on the foundations of mathematics, pp.* 132-139. *Magnes Press, Hebrew Univ., Jerusalem,* 1961. (A. Mostowski) 29 #2177

Some applications of degrees. *Logic, Methodology and Philosophy of Science (Proc.* 1960 *Internat. Congr.), pp.* 56-59. *Stanford Univ. Press, Stanford, Calif.,* 1962. (G. E. Sacks) 32 #2331

Applications of model theory to degrees of unsolvability. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 359-363. *North-Holland, Amsterdam,* 1965. (A. H. Lachlan) 34 #53

A theorem on minimal degrees. *J. Symbolic Logic* 31 (1966), 539-544. (T. G. McLaughlin) 34 #5676

* Mathematical logic. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1967. viii + 344 *pp.* (G. Kreisel) 37 #1224

A theorem on quantifier elimination. *Symposia Mathematica, Vol. V (INDAM, Rome,* 1969/70*), pp.* 173-176. *Academic Press, London,* 1971. (K. J. Barwise) 42 #7497

A hierarchy based on a type two object. *Trans. Amer. Math. Soc.* 134 (1968), 103-108. (S.-C. Liu) 41 #8227

Unramified forcing. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.,* 1967*), pp.* 357-381. *Amer. Math. Soc., Providence, R. I.,* 1971. (K. A. Bowen) 43 #6079

Measurable cardinals. *Logic Colloquium '69 (Proc. Summer School and Colloq., Manchester,* 1969*), pp.* 19-49. *North-Holland, Amsterdam,* 1971. (N. H. Williams) 44 #64

Shohet, J. L.

(with Moskowitz, C.) Eigenvalues of a microwave-cavity-lossy-plasma system. *J. Appl. Phys.* 36 (1965), 1756-1759. (J. E. Harris) 32 #5035

Shohōji, Takao

(with Yamamoto, Sumiyasu) Note on first recurrence and first passage times for renewal processes. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 159-165. (M. Dwass) 31 #2772

Shoji, Kazuhiko

(with Fujii, Katsuhiko; Nishibe, Kunihiko) Asymptotic stability in-the-large of nonlinear control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 362-371. (Authors' summary) 42 #4236

Shokin, Y. I. See Šokin, Ju. I.

Sholomov, L. A. See Šolomov, L. A.

Shonick, William

A stochastic model for occupancy-related random variables in general-acute hospitals. *J. Amer. Statist. Assoc.* 65 (1970), 1474-1500. (D. L. Iglehart) 43 #8355

Shonkwiler, R. W.

(with Meyer, Burnett) On a space of holomorphic functions defined by Hornich. *Arch. Math. (Basel)* 22 (1971), 72-75. (V. Ganapathy Iyer) 44 #5493

Shono, Yoshiyuki

On a unified derivation of the cranking model and Peierls-Yoccoz method. I. Wave functions. *Progr. Theoret. Phys.* 34 (1965), 972-980. (D. ter Haar) 33 #2305

Shor, I. B. See Šor, Ja. B.

Shor, J. B. See Šor, Ja. B.

Shorack, Galen R.

Testing against ordered alternatives in model I analysis of variance: Normal theory and nonparametric. *Ann. Math. Statist.* 38 (1967), 1740-1752. (J. Klotz) 36 #6073

(with Pyke, Ronald) Weak convergence of a two-sample empirical process and a new approach to Chernoff-Savage theorems. *Ann. Math. Statist.* 39 (1968), 755-771. (P. J. Bickel) 37 #2357

(with Pyke, Ronald) Weak convergence and a Chernoff-Savage theorem for random sample sizes. *Ann. Math. Statist.* 39 (1968), 1675-1685. (M. B. Woodroofe) 37 #5967

(with Pyke, Ronald) A note on Chernoff-Savage theorems. *Ann. Math. Statist.* 40 (1969), 1116-1119. (J. Hájek) 39 #7710

Asymptotic normality of linear combinations of functions of order statistics. *Ann. Math. Statist.* 40 (1969), 2041-2050. (H. L. Harter) 40 #6672

Shorack, Roger A.

Recursive generation of the distribution of the Mann-Whitney-Wilcoxon U-statistic under generalized Lehmann alternatives. *Ann. Math. Statist.* 37 (1966), 284-286. (I. R. Savage) 32 #1832

On the power of precedence life tests. *Technometrics* 9 (1967), 154-158. (Benjamin Epstein) 36 #1067

Tables of the distribution of the Mann-Whitney-Wilcoxon U-statistic under Lehmann alternatives. *Technometrics* 9 (1967), 666-677. 36 #1060

Recursive generation of the distribution of several nonparametric test statistics under censoring. *J. Amer. Statist. Assoc.* 63 (1968), 353-366. (G. E. Noether) 36 #6084

Shore, H.

(with Kittel, C.) Development of a phase transition for a rigorously solvable many-body system. *Phys. Rev.* (2) 138 (1965), A1165-A1169. (J. A. McLennan) 32 #7153

Shore, R. A.

(with Kleinberg, E. M.) On large cardinals and partition relations. *J. Symbolic Logic* 36 (1971), 305-308. (P. Erdős) 44 #6504

Shore, Robert A.

(with Parrent, George B., Jr.; Skinner, Thomas J.) On the mutual coherence function in an inhomogeneous medium. *J. Mathematical Phys.* 3 (1962), 678-684. (E. Wolf) 29 #6793

* The Wiener-Hopf factorization of two Bessel function expressions. Report No. AFCRL-69-0177. Physical and Mathematical Sciences Research Papers, No. 378. *Air Force Cambridge Research Laboratories, Office of Aerospace Research, United States Air Force, L. G. Hanscom Field, Bedford, Mass.*, 1969. vi + 35 pp. (R. K. Saxena) 40 #1618

Shore, Samuel D.

On the second order differential equation which has orthogonal polynomial solutions. *Bull. Calcutta Math. Soc.* 56 (1964), 195-198. (S. P. Hastings) 34 #394

(with Mrówka, S.) Structures of continuous functions. IV. Representation of real homomorphisms of lattices of continuous functions. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 83-91. (Edwin Hewitt) 38 #5862

(with Mrówka, S.) Structures of continuous functions. V. On homomorphisms of structures of continuous functions with 0-dimensional compact domains. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 92-94. (Edwin Hewitt) 38 #5863

Homomorphisms of lattices of integer-valued continuous functions. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 532-538. (J. Kist) 31 #3362

On lattices of chain-valued continuous functions. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 421-427. (H. Gordon) 38 #4959

Decomposition of function-lattices. *Proc. Amer. Math. Soc.* 28 (1971), 189-190. (J. Diestel) 42 #6581

Shores, Thomas S.

A note on products of normal subgroups. *Canad. Math. Bull.* 12 (1969), 21-24. (F. Levin) 39 #5675

On $\bar{Z}$-hypercentral normal subgroups. *Arch. Math. (Basel)* 21 (1970), 344-348. (D. J. S. Robinson) 42 #6106

On the theory of Engel elements in groups. *Illinois J. Math.* 15 (1971), 578-594. (H. Heineken) 44 #6839

Decompositions of finitely generated modules. *Proc. Amer. Math. Soc.* 30 (1971), 445-450. (M. Teply) 43 #7423

Shorrock, Richard

(with Patil, G. P.) On certain properties of the exponential-type families. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 94-99. (Authors' summary) 32 #4721

Short, Donald R.

(with Smith, J. Wolfgang) A Vietoris-Begle theorem for submersions. *Indiana Univ. Math. J.* 20 (1970/71), 327-336. (K. Aoki) 42 #3801

A Vietoris-Begle theorem for differentiable maps. *Indiana Univ. Math. J.* 21 (1971/72), 19-25. (K. Aoki) 44 #2241

Shortle, George E., Jr.

(with Alexandro, F. J., Jr.) An extended frequency-domain stability criterion for a class of sampled-data systems. *IEEE Trans. Automatic Control* AC-15 (1970), 232-234. (E. Ar) 42 #8990

Shortley, George H.

A stochastic model for distributions of biological response times. *Biometrics* 21 (1965), 562-582. (D. G. Kendall) 32 #9072

Shotwell, David A.

Singular boundary problems for the differential equation $Lu = \lambda\sigma u$. *Rocky Mountain J. Math.* 1 (1971), *no.* 4, 687-708. (E. Müller-Pfeiffer) 44 #7029

Shouse, Otis D.

(with Hsieh, Po-fang) Reduction of order of a system of linear nonhomogeneous ordinary differential equations. (Russian, French and German summaries) *Bul. Inst. Politehn. București* 29 (1967), *no.* 6, 21-24. (H. Hochstadt) 37 #1668

Shouten, I. A. See Schouten, J. A.

Showalter, David W.

Representation and computation of the pseudoinverse. *Proc. Amer. Math. Soc.* 18 (1967), 584-586. (S. Goldberg) 35 #3465

(with Ben-Israel, Adi) Representation and computation of the generalized inverse of a bounded linear operator between Hilbert spaces. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 48 (1970), 184-194. (W. C. Rheinboldt) 42 #8310

Showalter, R. E.

Partial differential equations of Sobolev-Galpern type. *Pacific J. Math.* 31 (1969), 787-793. (J. E. Lagnese) 40 #6085

Local regularity of solutions of Sobolev-Galpern partial differential equations. *Pacific J. Math.* 34 (1970), 781-787. (N. Shimakura) 42 #2153

Well-posed problems for a partial differential equation of order $2m + 1$. *SIAM J. Math. Anal.* 1 (1970), 214-231. (J. E. Lagnese) 41 #5787

Shpiz, Joseph M.

On Pais's charge correlation coefficients. *J. Mathematical Phys.* 5 (1964), 1052. (Y. Ne'eman) 29 #3182

(with Chang, Ngee-Pong) Implications of $SU(12)_{\mathfrak{L}}$ for $\bar{N}N$ annihilation at rest. *Phys. Rev. Lett.* 14 (1965), 617-621. (Y. Hara) 31 #3090

Shrader, Susan

(with Wiginton, C. L.) Spaces determined by a group of functions. *Bull. Amer. Math. Soc.* 74 (1968), 1110-1112. (S. K. Kaul) 38 #700

Shrager, Richard I.

Nonlinear regression with linear constraints: An extension of the magnified diagonal method. *J. Assoc. Comput. Mach.* 17 (1970), 446-452. (P. Fortunati) 43 #4471

Shragin, I. V. See Šragin, I. V.

Shrauner, E.

(with Byrne, N.; Iddings, C.) Breakdown of unitary octet symmetry in a nonlinear spinor model of elementary-particle theory. *Phys. Rev.* (2) 139 (1965), B918-B932. 33 #3659

(with Byrne, N.; Iddings, C.) Meson states in a nonlinear spinor model of elementary-particle theory with spontaneous symmetry breakdown. *Phys. Rev.* (2) 139 (1965), B933-B944. 33 #3660

Shreider, Ju. A. See Šreĭder, Ju. A.

Shreyder, Yu. A. See Šreĭder, Ju. A.

Shrestha, Gambhir M.

(with Terrill, Robert M.) Laminar flow through parallel and uniformly porous walls of different permeability. (French summary) *Z. Angew. Math. Phys.* 16 (1965), 470-482. (Chia-Shun Yih) 32 #6796

Shreve, Warren E.

Boundary value problems for $y'' = f(x,y,\lambda)$ on $[a,\infty]$. *SIAM J. Appl. Math.* 17 (1969), 84-97. (H. K. Wilson) 40 #2953

Terminal value problems for second order nonlinear differential equations. *SIAM J. Appl. Math.* 18 (1970), 783-791. (I. Kiguradze) 41 #5695

Asymptotic behavior in a second order linear matrix differential equation. *J. Differential Equations* 9 (1971), 13-24. (S. Ahmad) 42 #6348

Shrikhande, S. S.

(with Jain, N. C.) The non-existence of some partially balanced incomplete block desings with Latin square type association scheme. *Sankhyā Ser. A* 24 (1962), 259-268. (K. Yamamoto) 33 #7268

(with Singh, N. K.) A note on balanced incomplete block designs. *J. Indian Statist. Assoc.* 1 (1963), 97-101. (E. Seiden) 29 #707

Some recent developments on mutually orthogonal Latin squares. *Math. Student* 31 (1963), 167-177 (1964). (S. Chowla) 31 #3348

(with Raghavarao, D.) A method of construction of incomplete block designs. *Sankhyā Ser. A* 25 (1963), 399-402. (K. Yamamoto) 34 #76

Generalized Hadamard matrices and orthogonal arrays of strength two. *Canad. J. Math.* 16 (1964), 736-740. (S. Addelman) 29 #4162

(with Raghavarao, D.) A note on the non-existence of symmetric balanced incomplete block designs. *Sankhyā Ser. A* 26 (1964), 91-92. (H. J. Ryser) 30 #4726

(with Raghavarao, D.) Affine α-resolvable incomplete block designs. *Contributions to Statistcs, pp.* 471-480. *Statist. Publ. Soc., Calcutta,* 1965. (Authors' summary) 35 #6295

On a class of partially balanced incomplete block designs. *Ann. Math. Statist.* 36 (1965), 1807-1814. (S. S. Gupta) 32 #8468

(with Bhagawandas) Dual of incomplete block designs. *J. Indian Statist. Assoc.* 3 (1965), 30-37. (H. Hanani) 32 #6621; erratum, 41, p. 1962.

On a conjecture of Bruck on pseudo net-graphs. *J. Algebra* 8 (1968), 418-422. (W. A. McWorter) 36 #6315

(with Bhagawandas) Seidel-equivalence of strongly regular graphs. *Sankhyā Ser. A* 30 (1968), 359-368. (J. J. Seidel) 44 #2626

(with Bhagawandas) On embedding of orthogonal arrays of strength two. (With discussion) *Combinatorial Mathematics and its Applications (Proc. Conf., Univ. North Carolina, Chapel Hill, N. C.,* 1967*), pp.* 256-273. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1969. (V. D. Belousov) 40 #5467

(with Bhagwandas) A note on embedding for Hadamard matrices. *Essays in Probability and Statistics, pp.* 673-688. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (Authors' summary) 41 #8259

(with Bhat, Vasanti N.) Graphs derivable from $L_3(5)$ graphs. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 403-404. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (J. J. Seidel) 42 #5842

(with Olkin, I.) An extension of Wilks' test for the equality of means. *Ann. Math. Statist.* 41 (1970), 683-687. (A. Fuchs) 40 #8183

(with Bhat, Vasanti N.) Nonisomorphic solutions of pseudo-(3,5,2) and pseudo-(3,6,3) graphs. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 331-350. (J. J. Seidel) 42 #5841

(with Raghavarao, D.; Tharthare, S. K.) "Non-existence of some unsymmetrical partially balanced incomplete block designs": Corrigendum. *Canad. J. Math.* 22 (1970), 191. (Editors) 41 #86

(with Bhat, Vasanti N.) Non-isomorphic solutions of some balanced incomplete block designs. I. *J. Combinatorial Theory* 9 (1970), 174-191. (A. Gewirtz) 42 #1674

(with Bose, R. C.) Graphs in which each pair of vertices is adjacent to the same number *d* of other vertices. *Studia Sci. Math. Hungar.* 5 (1970), 181-195. (J. J. Seidel) 43 #84

Shrinkhande, S. S. See Shrikhande, S. S.

Shrivastava, Kailash Chandra

Fourier series and Gibbs phenomenon. *Madhya Bharati II A* 10 (1961), *no.* 10, 17-31 (1964). (S. Izumi) 31 #2561

Shrivastava, M. M.

On some applications of fractional integration to the theory of *H*-function. *J. Sci. Engrg. Res.* 13 (1969), 306-314. (H. Kober) 42 #8187

Shrivastava, P. N.

On *q*-polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 38 (1968), 203-208. (S. L. Kalla) 41 #8734

(with Dhawan, G. K.) On a new generalized function. *Math. Student* 37 (1969), 169-174. (K. C. Gupta) 41 #8717

(with Singh, R. P.) A note on Hermite polynomials. *Math. Student* 37 (1969), 218-220. (S. K. Chatterjea) 42 #2071

On the polynomials of Truesdell type. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 43-46. (H. M. Srivastava) 40 #5936

Shtaerman, I. Ia. See Štaerman, I. Ja.

Shteyn, M. Ye. See Šteĭn, M. E.

Shtokalo, Ĭ. Z. See Štokalo, Ĭ. Z.

Shtshegloff, M. See Šceglov, M. P.

Shu, Frank H.

(with Lin, C. C.) On the spiral structure of disk galaxies. *Astrophys. J.* 140 (1964), 646-655. (L. Woltjer) 31 #6660

(with Lin, C. C.; Mestel, L.) The gravitational collapse of a uniform spheroid. *Astrophys. J.* 142 (1965), 1431-1446. (Author summary) 32 #3838

Shu, Teh Chen Moy. See Moy, Shu-teh C.

Shub, Michael

(with Epstein, D. B. A.) Expanding endomorphisms of flat manifolds. *Topology* 7 (1968), 139-141. (R. K. Lashof) 37 #3580

Endomorphisms of compact differentiable manifolds. *Amer. J. Math.* 91 (1969), 175-199. (H. Suzuki) 39 #2169

Periodic orbits of hyperbolic diffeomorphisms and flows. *Bull. Amer. Math. Soc.* 75 (1969), 57-58. (K. R. Meyer) 38 #2815

(with Hirsch, M.; Palis, J.; Pugh, C.) Neighborhoods of hyperbolic sets. *Invent. Math.* 9 (1969/70), 121-134. (K. R. Meyer) 41 #7232

(with Williams, R. F.) Future stability is not generic. *Proc. Amer. Math. Soc.* 22 (1969), 483-484. (W. R. Utz) 39 #3526

Expanding maps. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 273-276. *Amer. Math. Soc., Providence, R. I.,* 1970. (H. Suzuki) 42 #1158

(with Pugh, Charles) Linearization of normally hyperbolic diffeomorphisms and flows. *Invent. Math.* 10 (1970), 187-198. (R. F. Williams) 44 #1055

(with Pugh, Charles) The Ω-stability theorem for flows. *Invent. Math.* 11 (1970), 150-158. (R. Ellis) 44 #4782

Appendix to Smale's paper: "Diagonals and relative equilibria *Manifolds—Amsterdam* 1970 *(Proc. Nuffic Summer School), pp.* 199-201. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin,* 1971. (J. W. Robbin) 43 #4430

(with Pugh, Charles) Ergodic elements of ergodic actions. *Compositio Math.* 23 (1971), 115-122. (R. L. Adler) 44 #407

Shubert, Bruno O.

Bayesian model of decision-making as a result of learning from experience. *Ann. Math. Statist.* 40 (1969), 2127-2142. (V. P Godambe) 40 #3649

Shubik, Martin

(with Griesmer, James H.) Toward a study of bidding processe Some constant-sum games. *Naval Res. Logist. Quart.* 10 (1963), 11-21. (H. W. Kuhn) 30 #2940

(with Griesmer, James H.) Toward a study of bidding processe II. Games with capacity limitations. *Naval Res. Logist. Quart.* 10 (1963), 151-173. (H. W. Kuhn) 30 #2941

(See also Essays in mathematical economics in honor of Oskar Morgenstern, 34 #5506)

Extended Edgeworth bargaining games and competitive equilibri *Metroecon.* 20 (1968), 299-312. (J. T. Howson, Jr.) 41 #9585

Shubnikov, A. V. See Šubnikov, A. V.

Shuchat, Alan H.

Approximation of vector-valued continuous functions. *Proc. Amer. Math. Soc.* 31 (1972), 97-103. (G. Godini) 44 #7267

Shui, Tsing Ho, See Ho.

Shukaylo, V. F.

Distribution of the absolute maximum of a stationary random process. *Radiotehn. i Èlektron.* 13 (1968), 996-1006 *(Russian); translated as Radio Engrg. Electron. Phys.* 1968, 867-875. (E. J. Hannan) 39 #2212

Shukla, Anjan

A set of axioms for the propositional calculus with implication and converse non-implication. *Notre Dame J. Formal Logic* 6 (1965), 123-128. (J. E. Fenstad) 34 #7336

A set of axioms for the propositional calculus with implication and non-equivalence. *Notre Dame J. Formal Logic* 7 (1966), 281-286. (H. Ribeiro) 35 #5288

A note on the axiomatizations of certain modal systems. *Notre Dame J. Formal Logic* 8 (1967), 118-121. 38 #2017

A note on independence. *Notre Dame J. Formal Logic* 10 (1969), 410-411. (From the author's text) 40 #20

Decision procedures for Lewis system S1 and related modal systems. *Notre Dame J. Formal Logic* 11 (1970), 141-180. (R. H. Thomason) 44 #1544

Finite model property for five modal calculi in the neighbou hood of S3. *Notre Dame J. Formal Logic* 12 (1971), 69-74. (R. A. Bull) 44 #3850

Shukla, G. K.

Multivariate regression estimate. *J. Indian Statist. Assoc.* 3 (1965), 202-211. (P. S. Dwyer) 34 #2136

An alternative multivariate ratio estimate for finite popula tion. *Calcutta Statist. Assoc. Bull.* 15 (1966), 127-134. (C. Hayashi) 34 #5249

(with Das, M. N.; Kartha, C. P.) On a method of constructio of symmetrical fractional factorials and related error correcting codes. *Calcutta Statist. Assoc. Bull.* 16 (1967), 164-179. (I. M Chakravarti) 39 #5017

Shukla, J. B.

(with Kapur, J. N.) On the flow of two conducting incompressible immiscible fluids between two non-conducting plates. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 27 (1962), 59-66. (A. A. Blank) 32 #6839

(with Kapur, J. N.) On the unsteady flow of two incompressible immiscible fluids between tow plates. *Z. Angew. Math. Mech.* 44 (1964), 268-269. (C. R. Illingworth) 29 #6727

Shukla, Kripa Shankar See Shankar Shukla, Kripa.

Shukla, N. D.

(with Pathak, P. K.) Non-negativity of a variance estimator. *Sankhyā Ser. A* 28 (1966), 41-46. (Authors' summary) 41 #2822

Shukla, R.

On unique extension of linear functionals. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 113-115. (M. V. Subbarao) 40 #4743

(with Hussain, Z.) On repeated limits and repeated partial derivatives. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 853-854. (V. Ganapathy Iyer) 42 #4687

(with Jha, K. K.) Consistency and independence of the axiom of choice with the axioms of a system Σ^*. *Progr. Math. (Allahabad)* 1 (1967), *no.* 1, 17-21. (D. Monk) 35 #6544

Shukla, Sahab Lal

(with Ashvinikumar) Instuitionist determination of dual spaces of certain catalogued linear spaces. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 74 = *Indag. Math.* 33 (1971), 240-250. (R. McGuigan) 44 #5744a

(with Ashvinikumar) Instuitionist determination of dual spaces of certain catalogued linear spaces. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 74 = *Indag. Math.* 33 (1971), 251-260. (R. McGuigan) 44 #5744b

Shukla, U.

* (with Murthy, M. Pavaman; Ramanathan, K. G.; Seshadri, C. S.; Sridharan, R.) Galois theory. Mathematical Pamphlets, 3. *Tata Institute of Fundamental Research. Bombay,* 1965. v + 63 *pp.* (From the preface) 41 #1700

Shukla, Umeshachandra

A relative cohomology for associative algebras. *Proc. Amer. Math. Soc.* 15 (1964), 461-469. (D. S. Rim) 29 #1240

A cohomology for Lie algebras. *J. Math. Soc. Japan* 18 (1966), 275-289. (Bruno Harris) 34 #1369

An interpretation of $Ext_{\Lambda^e}^{2}(\Lambda,M)$. *Math. Z.* 92 (1966), 340-348. (J. P. Jans) 33 #172

Shukla, W.

Remarks on free objects in categories. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur,* 1968*), pp.* 239-243. *Academia, Prague,* 1971. (Y. C. Wu) 43 #6286

Shukuryan, Yu. G. See Šukurjan, Ju. G.

Shuler, Kurt E.

(with Oser, Hansjörg; Weiss, George H.) Relaxation of a Lorentz gas with a repulsive r^{-s} force law. *J. Chem. Phys.* 41 (1964), 2661-2666. (Authors' summary) 29 #5576

(with Oppenheim, Irwin) Master equations and Markov processes. *Phys. Rev.* (2) 138 (1965), B1007-B1011. (G. Weiss) 33 #3721

(with Lakates-Lindenberg, Katja) Random walks with nonnearest neighbor transitions. I. Analytic 1-D theory for next-nearest neighbor and exponentially distributed steps. *J. Mathematical Phys.* 12 (1971), 633-652. (J. Gillis) 43 #6985

Shul'geifer, E. G. See Šul'geĭfer, E. G.

Shul'man, I. Sh. See Šul'man, I. Š.

Shulman, Lawrence

(with de Branges, Louis) Perturbations of unitary transformations. *J. Math. Anal. Appl.* 23 (1968), 294-326. (J. Rovnyak) 37 #4664

(See Also Berezans'kiĭ, Ju. M., 36 #5768)

Perturbations of unitary transformations. *Amer. J. Math.* 91 (1969), 267-288. (J. Rovnyak) 40 #3353a (E)

Correction to: "Perturbations of unitary transformations". *Amer. J. Math.* 91 (1969), 1152. (Editors) 40 #7864

Perturbations of unitary transformations. *J. Math. Anal. Appl.* 28 (1969), 231-254. (J. Rovnyak) 40 #3353b

Shult, Ernest E.

On groups admitting fixed point free abelian operator groups. *Illinois J. Math.* 9 (1965), 701-720. (Graham Higman) 32 #1269

Nilpotence of the commutator subgroup in groups admitting fixed point free operator groups. *Pacific J. Math.* 17 (1966), 323-347. (K. W. Gruenberg) 34 #2686

A note on splitting in solvable groups. *Proc. Amer. Math. Soc.* 17 (1966), 318-320. (Graham Higman) 34 #7657

Some analogues of Glauberman's Z^*-theorem. *Proc. Amer. Math. Soc.* 17 (1966), 1186-1190. (O. H. Kegel) 33 #5736

The solution of Boen's problem. *Bull. Amer. Math. Soc.* 74 (1968), 268-270. (D. L. Barnett) 37 #314

On finite automorphic algebras. *Illinois J. Math.* 13 (1969), 625-653. (W. E. Jenner) 40 #1441

On the triviality of finite automorphic algebras. *Illinois J. Math.* 13 (1969), 654-659. (W. E. Jenner) 40 #1442

(with Shamash, J.) On groups with cyclic Carter subgroups. *J. Algebra* 11 (1969), 564-597. (T. R. Berger) 39 #6988

A characterization theorem for the groups $SP(2n,2)$. *J. Algebra* 15 (1970), 543-553. (P. J. Lorimer) 42 #1890

Shultis, J. Kenneth

(with Kaper, H. G.) Greenhouse effect in a finite anisotropically scattering atmosphere. *Astronom. and Astrophys.* 3 (1969), 110-121. (R. S. B. Ong) 40 #1112

(with Pahor, S.) Half-space multigroup transport theory. *J. Mathematical Phys.* 10 (1969), 2220-2226. (S. Albertoni) 42 #7211

(with Kaper, Hans G.; Veninga, Jaap G.) Numerical evaluation of the slab albedo problem solution in one-speed anisotropic transport theory. *J. Computational Phys.* 6 (1970), 288-313. (M. Drăganu) 44 #6218

Shumays, Ibrahim Abu. See Abu-Shumays, Ibrahim.

Shu-poon, Li

(with Raju, G. V. S.) Stability analysis for a fourth-order nonlinear discrete-time system. *J. Franklin Inst.* 288 (1969), 67-69. (D. H. Chyung) 40 #6988

Shur, M. G. See Šur, M. G.

Shur, M. S. See Šur, M. S.

Shushurin, S. F. See Šušurin, S. F.

Shuster, Jonathan

On the inverse Gaussian distribution function. *J. Amer. Statist. Assoc.* 63 (1968), 1514-1516. (Author's summary) 38 3956

On the Borel-Cantelli problem. *Canad. Math. Bull.* 13 (1970), 273-275. (S. G. Mohanty) 42 #3822

Shut'ko, A. V. See Šut'ko, A. V.

Shuvalov, I. K. See Šuvalov, I. K.

Shvartsburg, A. B. See Švarcburg, A. B.

Shvedov, I. A. See Švedov, I. A.

Shveikin, P. I. See Šveĭkin, P. I.

Shvets, M. E. See Švec, Marko.

Shvetz, M. See Švec, Marko.

Shvez, M. See Švec, Marko.

Shyama Prasad Bandyopadhyay. See Banyopadhyay, Shyama Prasad.

Shyu, Kwang-huei See Hsu Kuang-hui.

Ši, Dzen Hu. See Hu, Sze-tsen.

Ši, Jan. See Jan Ši.

Sibagaki, Wasao

Theory of partial differential equations--an introduction. I. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 20 (1966), 61-164. (C. H. Wilcox) 33 #6091

(with Maruki, Goichi) A matrix theory of multi-level difference equations analogous to linear partial differential equations with constant coefficients. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 20 (1966), 283-305. (A. O. Garder, Jr.) 35 #1230

(with Rikimaru, Hisako) On the E. Hopf's weak solution of the initial value problem for the Navier-Stokes equations. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 21 (1967), 194-240. (G. Prodi) 37 #3220

Sibajiban

A remark on note on duality. *Notre Dame J. Formal Logic* 11 (1970), 99-100. 43 #3086

Šibasov, L. P.

(with Es'kina, L. M.; L'vova, L. V.) Interpretations of the Lobačevskiĭ plane which are intermediate to the projective and conformal interpretations. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 3, 51-57. (M. C. Chaki) 36 #3210

(with Semjanistyĭ, V. I.; Petrov, E. E.) Certain integral transformations in quasi-non-Euclidean spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 220-243. (L. W. Green) 36 #2100

Integral geometry in Grassmann manifolds. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 262, 256-270 (1969). (Z. Nádeník) 44 #2189

Šibasova, Z. F.

(with Semjanistyĭ, V. I.) Integral geometry in Euclidean space and its connection with boundary value problems. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 269-272. (Z. Nádeník) 36 #7097

Sibert, E. E., Jr.

A machine-oriented logic incorporating the equality relation. *Machine Intelligence*, 4, *pp.* 103-133. *American Elsevier, New York*, 1969. (A. Rose) 41 #1538

Sibgatullin, N. R.

A representation of functions in the form of superposition of waves in two-dimensional and three-dimensional Lobačevskiĭ spaces. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 1244-1247. (B. R. Gelbaum) 40 #4679

Sibille, Robert

(with Montel, Bernard; Nègre, Robert; Stutz, Pierre) Remarques sur l'étude de la répartition des contraintes sous un poinçon dans le cas de la symétrie axiale. *C. R. Acad. Sci. Paris* 259 (1964), 2963-2966. (D. R. Bland) 30 #776

(with Dembicki, Eugeniusz; Kravtchenko, Julien) Sur les solutions analytiques approchées de problèmes d'équilibre limite plan pour milieux cohérents et pesants. *J. Mécanique* 3 (1964), 277-312. (D. R. Bland) 30 #4435

(with Kravtchenko, Julien) Sur quelques propriétés géométriques du champ des contraintes de l'équilibre limite plan et de révolution des sols obéissant à la loi de Coulomb. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1023-A1026. (P. P. Teodorescu) 33 #5198

Sibirjakov, G. V.

Some operators in the space of generalized functions K_1'. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 179 (1966), 79-84. (Z. Zieleźny) 34 #8175

Comparison of generalized functions of the space K_1' by means of the A-operator. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 179 (1966), 85-91. (Z. Zieleźny) 34 #8176

Difference equations in K_1'. An operational method of solution. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 179 (1966), 92-102. (Z. Zieleźny) 35 #733

Difference equations in the space K_1'. The method of fundamental solutions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 179 (1966), 103-108. (Z. Zieleźny) 34 #8177

The A-operator and the value of a generalized function at zero. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 198 (1967), 43-49. (V. Grušin (RŽMat 1968 #8 B588)) 43 #912

A certain method of using computers in mathematics. I—II. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 198 (1967), 65-78. (I. Šelihova (RŽMat 1968 #8 V501)) 42 #8743

Sibirskiĭ, K. S.

Uniform approximation of points and properties of motions in dynamically limiting sets. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 1, 38-48. (N. G. Markley) 36 #4547

Centers with a symmetry of the direction field of a differential equation. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 1, 79-83. (C. Olech) 35 #3148

(with Stahi, A. M.) Limiting properties of partially ordered dispersive dynamical systems. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 11, 42-49 (1964). (A. Badrikian) 37 #374

Solution of the problem of the center for the differential equation $dy/dx = -(c_{10}x + c_{01}y + c_{20}x^2 + c_{11}xy + c_{02}y^2)/(b_{10}x + b_{01}y + b_{20}x^2 + b_{11}xy + b_{02}y^2)$. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 11, 86-91 (1964). (N. G. Markley) 34 #7880

(with Marinčuk, A. V.) Invariants of orthogonal transformations of the phase-plane of a system of differential equations. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 51-57. (C. Olech) 35 #5696

(with Stahi, A. M.) On the question of partial orderability of groups. (Russian) *Studies in Algebra and Math. Anal. (Russian)*, *pp.* 73-78. *Izdat. "Karta Moldovenjaske", Kishinev*, 1965. (J. Jakubík) 34 #259

(with Zil'berberg, N. I.) On a hypothesis of M. I. Al'muhamedov. (Russian) *Studies in Algebra and Math. Anal. (Russian)*, *pp.* 131-133. *Izdat. "Karta Moldovenjaske", Kishinev*, 1965. (C. Karanikolov) 34 #4147

On the number of limit cycles in the neighborhood of a singular point. (Russian) *Differencial'nye Uravnenija* 1 (1965), 53-66. (W. A. Coppel) 32 #5980

(with Lunkevič, V. A.) On conditions for a center. (Russian) *Differencial'nye Uravnenija* 1 (1965), 176-181. (S. P. Hastings) 33 #344

(with Lunkevič, V. A.) Conditions for a center in the case of homogeneous non-linearities of third degree. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1482-1487. (S. P. Hastings) 32 #7849

On the number of limit cycles arising from a singular point of focus or center type. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 304-307. (P. Seibert) 33 #347

Evenness of functions of two variables. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1966, *no.* 4, 47-54. (J. Mařík) 35 #611

Invariants of linear representations of the rotation group of the plane and their applications in the qualitative theory of differential equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 736-751. (J. M. G. Fell) 34 #420

Invariants of linear representations of the rotation group of the plane and their applications in the qualitative theory of differential equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 908-918. (J. M. G. Fell) 34 #421

Dynamical systems close to Hamiltonian ones. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2177-2178. (R. Reissig) 37 #3145

Unitary and orthogonal invariants of matrices. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 40-43. (H. Schwerdtfeger) 34 #7539

Orthogonal invariants of the system of 2 × 2 matrices. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 124-135 (1968). (D. Ž. Djoković) 39 #2797

Invariants of the affine transformations of the phase plane of a system of differential equations. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 136-149 (1968). (M. Bertolino) 39 #524

* Метод инвариантов в качественной теории дифференциальных уравнений. (Russian) [The method of invariants in the qualitative theory of differential equations] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Akad. Nauk Moldav. SSR, Kishinev*, 1968. 184 *pp.* (C. S. Coleman) 42 #582

On some questions of the existence of the center. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1931-1938. (S. P. Hastings) 39 #1733

A minimal polynomial basis of unitary invariants of a square matrix of order three. (Russian) *Mat. Zametki* 3 (1968), 291-295. (D. Ž. Djoković) 37 #4102

Algebraic invariants of a system of matrices. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 152-164. (R. F. Rinehart) 36 #6427

(with Marinčuk, A. V.) Minimal polynomial bases of the affine invariants of three 3 × 3 matrices. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 4 (14), 46-56. (R. F. Rinehart) 43 #4847

* Введение в топологическую динамику. (Russian) [Introduction to topological dynamics] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev*, 1970. 144 *pp.* (A. Morimoto) 43 #651

(with Marinčuk, A. V.) Minimal polynomial bases for the affine invariants of five 3 × 3 matrices. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 3 (17), 101-111. (R. F. Rinehart) 43 #7450

(with Marinčuk, A. V.) The affine invariants of differential equations. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 3 (17), 112-128. (M. Bertolino) 44 #529

(with Marinčuk, A. V.) Minimal polynomial bases of affine invariants of square matrices of order three. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 1 (19), 100-113. (R. F. Rinehart) 44 #6736

Šibjak, A. See Szybiak, Andrzej.

Sibner, Lesley M.

The Tricomi problem for an equation of abruptly changing type. *Comm. Pure Appl. Math.* 19 (1966), 35-47. (E. V. Laitone) 33 #956

A boundary value problem for an equation of mixed type having two transitions. *J. Differential Equations* 4 (1968), 634-645. (H. Ogawa) 37 #6614

A remark on the question of uniqueness for the Tricomi problem. *Proc. Amer. Math. Soc.* 19 (1968), 541-543. (H. Ogawa) 37 #619

A generalization of the Morse index theorem to a class of degenerate elliptic operators. *J. Math. Mech.* 19 (1969/70), 37-40. (B. Hellwig) 39 #5971

(with Sibner, R. J.) A non-linear Hodge-de Rham theorem. *Acta Math.* 125 (1970), 57-73. (J. D. Zund) 43 #6950

Sibner, Robert J.

(with Rivlin, T. J.) The degree of approximation of certain functions of two variables by a sum of functions of one variable. *Amer. Math. Monthly* 72 (1965), 1101-1103. (J. Moser) 32 #4450

Uniformization of symmetric Riemann surfaces by Schottky groups. *Trans. Amer. Math. Soc.* 116 (1965), 79-85. (L. V. Ahlfors) 32 #5869

Hyperbolic generators for Fuchsian groups. *Proc. Amer. Math. Soc.* 17 (1966), 963-968. (L. Greenberg) 33 #7533

Symmetric Fuchsian groups. *Amer. J. Math.* 90 (1968), 1237-1259. (V. Chuckrow) 38 #3426

Remarks on the Koebe Kreisnormierungsproblem. *Comment. Math. Helv.* 43 (1968), 289-295. (S. B. Agard) 37 #5380

(with Sibner, L. M.) A non-linear Hodge-de Rham theorem. *Acta Math.* 125 (1970), 57-73. (J. D. Zund) 43 #6950

Domains bounded by analytic Jordan curces. *Bull. Amer. Math. Soc.* 76 (1970), 61-63. (G. Schober) 41 #445

"Uniformizations" of infinitely connected domains. *Advances in the Theory of Riemann Surfaces (Proc. Conf., Stony Brook, N. Y., 1969)*, *pp.* 407-420. *Ann. of Math. Studies, No. 66. Princeton Univ. Press, Princeton, N. J.*, 1971. (Y. Kusunoki) 44 #5454

Sibony, Daniel

Généralisation de la théorie de Constantinescu-Cornea-Doob sur les propriétés "à la frontière" des fonctions analytiques. *C. R. Acad. Sci. Paris* 260 (1965), 2686-2688. (J. L. Doob) 30 #4963

Sur les transformations conservant l'harmonicité. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A748-A751. (Author's summary) 35 #3079

(with Mokobodzki, Gabriel) Principe du minimum et maximalité en théorie du potentiel. Esquisse d'une théorie globale. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A126-A129. (M. Brelot) 34 #1545 (with Mokobodzki, Gabriel) Principe du minimum et maximalité en theórie du potentiel. *Ann. Inst. Fourier (Grenoble)* 17 (1967), *fasc.* 1, 401-441. (J. L. Doob) 37 #1643

(with Mokobodzki, Gabriel) Cônes de fonctions continues. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A15-A18. (N. Boboc) 37 #1973

(with Mokobodzki, Gabriel) Théorie globale du potentiel. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A238-A241. (M. Brelot) 35 #6855

(with Mokobodzki, Gabriel) Cônes et espaces de fonctions continues. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A506-A509. (H. E. Lacey) 38 #4956

(with Mokobodzki, Gabriel) Noyaux, résolvantes, semi-groupes, subordonnés à un cône adapté de fonctions continues. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A21-A24. (H. E. Lacey) 38 #4702

(with Mokobodzki, Gabriel) Cônes de fonctions et théorie du potentiel. I. Les noyaux associés à un cône de fonctions. *Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny:* 1966/67, *Exp.* 8, 35 *pp. Secrétariat mathématique, Paris,* 1968. (N. Boboc) 38 #3458

(with Mokobodzki, Gabriel) Cônes de fonctions et théorie du potentiel. II. Résolvantes et semi-groupes subordonnés à un cône de fonctions. *Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny:* 1966/67, *Exp.* 9, 29 *pp. Secrétariat mathématique, Paris,* 1968. (N. Boboc) 38 #3459

(with Mokobodzki, Gabriel) Cônes adaptés de fonctions continues et théorie de potentiel. *Séminaire Choquet:* 1966/67, *Initiation à l'Analyse, Fasc.* 1, *Exp.* 5, 35 *pp. Secrétariat mathématique, Paris,* 1968. (Editors) 38 #4955

Allure à la frontière minimale d'une classe de transformations. Théorème de Doob généralisé. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 91-120 (1969). (J. L. Doob) 40 #395

Théorème de limites fines et problème de Dirichlet. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 121-134 (1969). (W. Kleiner) 39 #7127

(with Mokobodzki, Gabriel) Familles additives de cones convexes et noyaux subordonnés. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 205-220 (1969). (J. E. Marsden) 39 #4424

Frontières associées à des cônes convexes de fonctions s.c.i. *Contributions to Extension Theory of Topological Structures (Proc. Sympos., Berlin, 1967), pp.* 199-206. *Deutsch. Verlag Wissensch., Berlin,* 1969. (H. E. Lacey) 39 #5816

Sibony, Moïse

(with Brezis, Haïm) Méthodes d'approximation et d'itération pour les opérateurs monotones. *Arch. Rational Mech. Anal.* 28 (1967/68), 59-82. (D. R. Arterburn) 36 #3177

Sur certains opérateurs quasi-elliptiques stationnaire et d'évolution. *Rev. Française Informat. Recherche Opérationnelle* 1 (1967), *no.* 1, 3-34. (A. Dou) 36 #6819

(with Brezis, H.) Méthodes d'approximation et d'itération pour les opérateurs monotones. *Numerical Analysis of Partial Differential Equations (C.I.M.E. 2° Ciclo, Ispra, 1967), pp.* 407-439. *Edizioni Cremonese, Rome,* 1968. (W. V. Petryshyn) 40 #8252

(with Bardos, Claude) Sur l'approximation d'une classe de problèmes d'évolution non linéaires. *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *Sér. R*-3, 99-111. (J. R. Dorroh) 42 #2313

Approximation of non-linear inequalities on Banach spaces. *Approximation Theory (Proc. Sympos., Lancaster, 1969), pp.* 243-260. *Academic Press, London,* 1970. (E. W. Cheney) 42 #2236

Minimisation de fonctionnelles non différentiables. (English summary) *Israel J. Math.* 8 (1970), 105-126. (M. Z. Nashed) 41 #9079

(with Dias, João-Paulo) Méthodes d'approximation pour certains problèmes non linéaires non homogènes. *J. Differential Equations* 9 (1971), 182-204. (E. Giusti) 44 #7371

Sibony, Nessim

Sur la notion de part pour les ensembles convexes. *Séminaire Choquet:* 1968/69, *Initiation à l'Analyse, Exp.* 4, 10 *pp. Secrétariat mathématique, Paris,* 1969. (J. Daneš) 43 #6693

Problème de Bernstein pour les fonctions différentiables. *Séminaire Choquet:* 1969/70, *Initiation à l'Analyse, Fasc.* 2, *Exp.* 12, 9 *pp. Secrétariat mathématique, Paris,* 1970. (Editors) 43 #6632

Problème de Bernstein pour les fonctions continûment différentiables. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1683-A1685. (W. B. Jones) 42 #4928

Sibson, Robin

Existence theorems for H-space inverses. *Proc. Cambridge Philos. Soc.* 65 (1969), 19-21. (I. M. James) 38 #1674

Information radius. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 149-160. (I. J. Good) 41 #2845

Sibul, Leon H.

Stochastic Green's functions and their relation to the resolvent kernels of integral equations. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 356-363. *Univ. of Illinois, Urbana, Ill.,* 1967. (Author's summary) 41 #7780

Sibuya, Masaaki

Randomized unbiased estimation of restricted parameters. *Ann. Inst. Statist. Math.* 15 (1963), 61-66. (A. C. Cohen) 31 #5280

(with Yoshimura, Isao; Shimizu, Ryoichi) Negative multinomial distribution. *Ann. Inst. Statist. Math.* 16 (1964), 409-426. (M. Dwass) 30 #1572

(with Morimoto, Haruki) Sufficient statistics and unbiased estimation of restricted selection parameters. *Sankhyā Ser. A* 29 (1967), 15-40. (S. Kotz) 35 #3793

Generating doubly exponential random numbers. *Ann. Inst. Statist. Math. Suppl. No.* 5 (1968), 1-7. (M. Muller) 38 #6688

Subclasses of generalized inverses of matrices. *Ann. Inst. Statist. Math.* 22 (1970), 543-556. (Author's summary) 43 #1326

Sibuya, Yasutaka

On the problem of turning points for systems of linear ordinary differential equations of higher orders. *Asymptotic Solutions of Differential Equations and Their Applications (Proc. Sympos., Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis., 1964), pp.* 145-162. *Wiley, New York,* 1964. (W. Wasow) 29 #4960

Some global properties of matrices of functions of one variable. *Math. Ann.* 161 (1965), 67-77. (O. Wyler) 33 #2644

(with Harris, W. A., Jr.) General solution of nonlinear difference equations. *Trans. Amer. Math. Soc.* 115 (1965), 62-75. (T. L. Saaty) 34 #515

(with Hsieh, Po-fang) Note on regular perturbations of linear ordinary differential equations at irregular singular points. *Funkcial. Ekvac.* 8 (1966), 99-108. (W. Wasow) 34 #3035

(with Takahashi, Ken-ichi) On the differential equation $(x + \varepsilon u)du/dx + q(x)u-r(x) = 0$. *Funkcial. Ekvac.* 9 (1966), 71-81. (W. Wasow) 35 #494

(with Russell, David L.) The problem of singular perturbations of linear ordinary differential equations at regular singular points. I. *Funkcial. Ekvac.* 9 (1966), 207-218. (D. Willett) 35 #5718

(with Hsieh, Po-fang) On the asymptotic integration of second order linear ordinary differential equations with polynomial coefficients. *J. Math. Anal. Appl.* 16 (1966), 84-103. (W. Wasow) 34 #403

(with Hsieh, Po-fang) A global analysis of matrices of functions of several variables. *J. Math. Anal. Appl.* 14 (1966), 332-340. (O. Wyler) 33 #2645

(with Harris, W. A., Jr.) On asymptotic solutions of systems of nonlinear difference equations. *J. Reine Angew. Math.* 222 (1966), 120-135. (R. F. Datko) 32 #6089

On biorthogonal systems. *Michigan Math. J.* 13 (1966), 165-168. (F. Brauer) 33 #3150

A block-diagonalization theorem for systems of linear ordinary differential equations and its applications. *SIAM J. Appl. Math.* 14 (1966), 468-475. (H. Hochstadt) 34 #3006

(See also Proceedings United States-Japan Seminar on Differential and Functional Equations, 36 #5415)

(with Sell, George R.) Behavior of solutions near a critical point. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 501-506. *Benjamin, New York,* 1967. (W. Wasow) 36 #6713

Subdominant solutions of the differential equation $y''-\lambda^2(x-a_1)(x-a_2)\dots(x-a_m)y = 0$. *Acta Math.* 119 (1967), 235-272. (W. Wasow) 37 #529

Subdominant solutions of linear differential equations with polynomial coefficients. *Michigan Math. J.* 14 (1967), 53-63. (D. V. V. Wend) 34 #7861

Stokes multipliers of subdominant solutions of the differential equation $y''-(x^3 + \lambda)y = 0$. *Proc. Amer. Math. Soc.* 18 (1967), 238-243. (W. Wasow) 35 #493

(with Harris, W. A., Jr.; Weinberg, L.) A reduction algorithm for linear differential systems. *Funkcial. Ekvac.* 11 (1968), 59-67. (H. E. Gollwitzer) 39 #519

(with Russell, David L.) The problem of singular perturbations of linear ordinary differential equations at regular singular points. II. *Funkcial. Ekvac.* 11 (1968), 175-184 (1969). (D. Willett) 39 #7235

Perturbation of linear ordinary differential equations at irregular singular points. *Funkcial. Ekvac.* 11 (1968), 235-246 (1969). (W. Wasow) 39 #4495

(with Harris, W. A., Jr.; Weinberg, L.) Holomorphic solutions of linear differential systems at singular points. *Arch. Rational Mech. Anal.* 35 (1969), 245-248. (D. Hinton) 40 #432

On algebraic differential equations. *Funkcial. Ekvac.* 13 (1970), 51-59. (C. Carton-Lebrun) 42 #567

(with Gollwitzer, H. E.) Stokes multipliers for subdominant solutions of second order differential equations with polynomial coefficients. *J. Reine Angew. Math.* 243 (1970), 98-119. (H. Hochstadt) 42 #8009

Almost periodic solutions of Poisson's equation. *Proc. Amer. Math. Soc.* 28 (1971), 195-198. (C. Vaghi) 44 #3033

Sichel, Martin

Structure of weak non-Hugoniot shocks. *Phys. Fluids* 6 (1963), 653-662. (M. Holt) 29 #5495

Sichler, Jiří

Concerning endomorphisms of finite algebra. *Comment. Math. Univ. Carolinae* 8 (1967), 405-414. (F. M. Sioson) 37 #130

Category of commutative groupoids is binding. *Comment. Math. Univ. Carolinae* 8 (1967), 753-755. (P.-A. Grillet) 37 #3981

$\mathfrak{A}(1, 1)$ can be strongly embedded into category of semigroups. *Comment. Math. Univ. Carolinae* 9 (1968), 257-262. (A. Pultr) 38 #5682b

Concerning minimal primitive classes of algebras containing any category of algebras as a full subcategory. *Comment. Math. Univ. Carolinae* 9 (1968), 627-635. (P.-A. Grillet) 40 #5526

(with Pultr, A.) Primitive classes of algebras with two unary idempotent operations, containing all algebraic categories as full subcategories. *Comment. Math. Univ. Carolinae* 10 (1969), 425-445. (J. R. Isbell) 40 #7182

(with Grätzer, G.) On the endomorphism semigroup (and category) of bounded lattices. *Pacific J. Math.* 35 (1970), 639-647. (T. S. Blyth) 43 #3175

(with Hedrlín, Z.) Any boundable binding category contains a proper class of mutually disjoint copies of itself. *Algebra Universalis* 1 (1971), *no.* 1, 97-103. (J. R. Isbell) 44 #2798

Siciak, Józef

Distribution of zeros of certain extremal polynomials. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 6 (1961), 49-58. (A. Sharma) 35 #639

Extremal points in the space C^n. *Colloq. Math.* 11 (1963/64), 157-163. (M. Schiffer) 32 #226

A generalization of Schwarz's lemma and of Hadamard's three circles theorem. *Colloq. Math.* 11 (1963/64), 203-207. (J. Spilker) 29 #2428

Some applications of the method of extremal points. *Colloq. Math.* 11 (1963/64), 209-250. (J. L. Kazdan) 29 #3631

(with Opial, Zdzisław) Integral formulas for functions holomorphic in convex n-circular domains. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 9 (1963), 67-75. (Joji Kajiwara) 34 #373

Some applications of interpolating harmonic polynomials. *J. Analyse Math.* 14 (1965), 393-407. (J. H. Curtiss) 31 #2415

Generalizations of a theorem of Fatou. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 81-84. (I. Bavrin (RŽMat 1968 #5 B216)) 44 #464

Degree of convergence of some sequences in the conformal mapping theory. *Colloq. Math.* 16 (1967), 49-59. (Ch. Pommerenke) 35 #4385

Asymptotic behaviour of harmonic polynomials bounded on a compact set. *Ann. Polon. Math.* 20 (1968), 267-278. (J. H. Curtiss) 38 #2324

Separately analytic functions and envelopes of holomorphy of some lower dimensional subsets of C^n. *Ann. Polon. Math.* 22 (1969/70), 145-171. (H. Kerner) 40 #5893

Analyticity and separate analyticity of functions defined on lower dimensional subsets of C^n. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 53-70. (J. Kajiwara) 40 #401

(with Bochnak, Jacek) Fonctions analytiques dans les espaces vectoriels topologiques réels ou complexes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A643-A646. (F. T. Birtel) 43 #7920

Two criteria for the continuity of the equilibrium Riesz potentials. *Comment. Math. Prace Mat.* 14 (1970), 91-99. (J. Lelong) 43 #3475

A characterization of analytic functions of n real variables. *Studia Math.* 35 (1970), 293-297. (J. W. Neuberger) 43 #4986

Sicks, Jon L.

Trace bending and spherical modifications. *J. Math. Mech.* 16 (1966), 493-499. (H. Suzuki) 34 #5094

(with Ku, H. T.; Mann, L. N.; Su, J. C.) Degree of symmetry of a product manifold. *Trans. Amer. Math. Soc.* 146 (1969), 133-149. (K. H. Mayer) 40 #3579

(with Mann, L. N.) Imbedding of compact Lie groups. *Indiana Univ. Math. J.* 20 (1970/71), 655-665. (H. Scheerer) 42 #3805

(with Ku, H. T.; Mann, L. N.; Su, J. C.) Degree of symmetry of a homotopy real projective space. *Trans. Amer. Math. Soc.* 161 (1971), 51-61. (T. Nagano) 43 #8089

Şiclovan, Ioan

(with Dobrescu, Eugen) Considerations on functions of two variables. (Romanian. French and Russian summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 109-121. (T. H. Hildebrandt) 34 #5998

(with Teodoru, Doina) On the congruence properties of orthogonal polynomials. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 1, 127-135. (A. E. Danese) 43 #7686

Sicoe, Corneliu O.

Strict chrysippian elements in polyvalent Lukasiewicz algebras. (Romanian. French and Russian summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 15 (1966), *no.* 2, 123-126. (Author's summary) 36 #3635

Axiom systems of B-algebra. *Proc. Japan Acad.* 42 (1966), 867-870. 35 #1444

On many-valued Lukasiewicz algebras. *Proc. Japan Acad.* 43 (1967), 725-728. (From the author's introduction) 36 #3627

A characterization of Lukasiewiczian algebra. I, II. *Proc. Japan Acad.* 43 (1967), 729-732; 733-736. 36 #3628

Sur les idéaux des algèbres lukasiewicziennes polyvalentes. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 391-401. (A. Rose) 35 #6538

Note on polyvalent Lukasiewicz algebras. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1203-1207. (Author's summary) 41 #5198

Sur la définition des algèbres lukasiewicziennes polyvalentes. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1027-1030. (Author's summary) 38 #2011

Sida, D. W.

A note on deriving the expansion of x^k in terms of polynomials. *Amer. Math. Monthly* 75 (1968), 643-645. (Editors) 37 #5442

Šidák, Zbyněk

Représentations des probabilités de transition dans les chaîne à liaisons complètes. (Czech and Russian summaries) *Časopis Pěst. Mat.* 87 (1962), 389-398. (D. G. Kendall) 32 #1752

Some theorems and examples in the theory of operators in denumerable Markov chains. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 88 (1963), 457-478. (J. Machek) 33 #6703

Eigenvalues of operators in denumerable Markov chains. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp.* 641-656. *Publ. House Czech. Acad. Sci., Prague,* 1964. (D. G. Kendall) 33 #785

On the number of positive elements in powers of a non-negative matrix. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 89 (1964), 28-30. (Author's summary) 31 #4797

Eigenvalues of operators in l_p-spaces in denumerable Markov chains. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 438-443. (L. L. Helms) 31 #799

The use of ergodic theorems for Markov chains. (Czech. Russia and English summaries) *Časopis Pěst. Mat.* 90 (1965), 200-208. (K. Krickeberg) 33 #786

Classification of Markov chains with a general state space. *Bull. Amer. Math. Soc.* 72 (1966), 149-152. (D. G. Kendall) 32 #3167

Classification of Markov chains with a general state space. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 547-571. *Academia, Prague,* 1967. (D. G. Kendall) 35 #7420

* (with Hájek, Jaroslav) Theory of rank tests. *Academic Press, New York-London; Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 297 *pp.* (R. H. Farrell) 37 #4925

Eigenvalues of operators in L_p-spaces in Markov chains with a general state space. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 148-157. (D. G. Kendall) 35 #1087

Rectangular confidence regions for the means of multivariate normal distributions. *J. Amer. Statist. Assoc.* 62 (1967), 626-633. (E. J. Williams) 35 #7495

On multivariate normal probabilities of rectangles: Their dependence on correlations. *Ann. Math. Statist.* 39 (1968), 1425-1434. (Lionel Weiss) 37 #5965

On probabilities of rectangles in multivariate Student distributions: their dependence on correlations. *Ann. Math. Statist.* 42 (1971), 169-175. (E. H. Lehman) 43 #4084

Remarks on Anděl's paper "On multiple normal probabilities of rectangles". (Czech summary) *Apl. Mat.* 16 (1971), 182-187. (T. Papaioannou) 44 #2286

Sidar, Menahem

An iterative algorithm for optimum control problems. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 3 (1968), 1-16. (L. D. Berkovitz) 37 #7196

Siddikov, H.

Maḥmūd ibn-Muḥammad ibn-Omar al Chaġmīnī al Khorezmi — a great medieval scholar. (Russian) *Vestnik Karakalpak. Filiala Akad. Nauk UzSSR* 1965, *no.* 4, 49-52. (G. P. Matvievskaja) 43 #6037

Siddiqi, A. H.

(with Mazhar, S. M.) On the F_A and A_B summability of a trigonometric sequence. *Indian J. Math.* 9 (1967), 461-466 (1968). (G. M. Petersen) 41 #4120

A note on Fourier series of functions of Z class. *Amer. Math. Monthly* 75 (1968), 173-174. (F. C. Hsiang) 37 #1889

(with Mazhar, S. M.) On the almost summability of a trigonometric sequence. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 21-24. (C. M. Patel) 39 #1897

On the degree of approximation to a function by the Cesàro means of its Fourier series. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 3, 367-373. (P. L. Butzer) 44 #1979

Siddiqi, Jamil Ahmad

On a theorem of Alexits. *Indian J. Math.* 9 (1967), 563-565 (1968). (F. Liverani) 41 #721

On mean values for almost periodic functions. *Arch. Math. (Basel)* 20 (1969), 648-655. (R. Doss) 40 #7721

A strengthened form of a theorem of Fejér. *Compositio Math.* 21 (1969), 262-270. (S. M. Mazhar) 41 #722

Coefficient properties of certain Fourier series. *Math. Ann.* 181 (1969), 242-254. (G. Sunouchi) 39 #4582

On a characterization of maximal ideals. *Canad. Math. Bull.* 13 (1970), 219-220. (R. B. Burckel) 42 #852

(with Malliavin, Paul) Approximation polynomiale sur un arc analytique dans le plan complexe. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A105-A108. (Horst Tietz) 44 #4216

Siddiqi, M. M. See Siddiqui, M. M.

Siddiqui, M. M.

Statistical inference for Rayleigh distributions. *J. Res. Na Bur. Standards Sect. D* 68D (1964), 1005-1010. (Benjamin Epstein) 29 #4137

Distribution of Student's t in samples from a rectangular universe. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 242-250. (M. Dwass) 30 #4332

Approximations to the distribution of quadratic forms. *Ann. Math. Statist.* 36 (1965), 677-682. (D. R. Barr) 31 #1730

(with Mielke, Paul W., Jr.) A combinatorial test for independence of dichotomous responses. *J. Amer. Statist. Assoc.* 60 (1965), 437-441. (Authors' summary) 32 #550

A bivariate t distribution. *Ann. Math. Statist.* 38 (1967), 162-166. (H. E. Reinhardt) 34 #3690 (E)

Correction to: "A bivariate t distribution". *Ann. Math. Statist.* 38 (1967), 1594. (Editors) 35 #6242

(with Crow, Edwin L.) Robust estimation of location. *J. Amer. Statist. Assoc.* 62 (1967), 353-389. (Authors' summary) 35 #3818

(with Raghunandanan, K.) Asymptotically robust estimators of location. *J. Amer. Statist. Assoc.* 62 (1967), 950-953. (P. J. Huber) 36 #2252

Strong law of large numbers for branching processes. *SIAM J. Appl. Math.* 15 (1967), 893-897. (P. E. Ney) 37 #986

(with Butler, Calvin) Asymptotic joint distribution of linear systematic statistics from multivariate distributions. *J. Amer. Statist. Assoc.* 64 (1969), 300-305. 39 #2249

(with Bryson, Maurice C.) Some criteria for aging. *J. Amer. Statist. Assoc.* 64 (1969), 1472-1483. (R. M. Cormack) 40 #6703

Order statistics of a sample and of an extended sample. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 417-423. *Cambridge Univ. Press, London,* 1970. (M. Csorgo) 42 #8635

iddykov, H.

The role of the scientists of ancient Khorezm in the development of the exact sciences. (Russian. Karakalpak summary) *Vestnik Karakalpak. Filiala Akad. Nauk UzSSR* 1967, *no.* 2, 3-14. (Editors) 41 #8196

idel'nikov, V. M.

On statistical properties of transformations realized by finite automata. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 6, 1-14. (H. P. Edmundson) 34 #5593

idériadès, Lefteri

Méthodes de topologie qualitative: Applications à l'étude des cheminées d'équilibre. (Russian summary) *Qualitative methods in the theory of non-linear vibrations (Proc. Internat. Sympos. Non-linear Vibrations, Vol. II,* 1961*), pp.* 342-355. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. (D. Bushaw) 29 #345

(with Jean, Michel) Circuits non autonomes du premier ordre. *C. R. Acad. Sci. Paris* 256 (1963), 5505-5507. (J. P. LaSalle) 29 #6103

(with Chappaz, Georges) Sur un système de van der Pol en régime forcé: Influence d'un amortissement fort. *C. R. Acad. Sci. Paris* 260 (1965), 5181-5183. (D. R. Miller) 32 #246

(with Martin, France) Sur les solutions forcées de l'équation de Van der Pol-Duffing dans l'approximation du premier harmonique. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A635-A637. (T. K. Caughey) 33 #3503

idljar, M. M.

An application of the variational method to the solution of non-stationary problems of heat conduction. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 846-849. (Author's summary) 29 #3123

Approximate solution of non-stationary heat conduction problems in the case of perturbation of the shape of the body. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 1136-1138. (Author's summary) 29 #5530

On a certain case of nonstationary thermal stresses in an unbounded elastic space with a cylindrical cavity. (Ukrainian. Russian summary) *Vīsnik Kiïv. Unīv.* 1964, *no.* 6, 32-38. (J. Ignaczak) 33 #3546

(with Stecenko, O. G.) Influence of viscosity on the hypersonic flow of a gas about an isolated wedge. (Ukrainian. Russian summary) *Vīsnik Kiïv, Unīv.* 1964, *no.* 6, 39-45. (J. P. Guiraud) 33 #960

idlovskaja, N. A.

(with Minin, I. N.; Piliposjan, A. G.) Tables of Ambarcumjan's functions for anisotropic scattering. (Russian. English summary) *Leningrad. Gos. Univ. Učen. Zap. Ser. Mat. Nauk No.* 37 (1964), 12-36. (From the authors' summary) 32 #2181

dlovskaya, N. A. See Šidlovskaja, N. A.

dlovskiĭ, A. B.

Transcendence of the values of E-functions. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 147-158. *Izdat. "Nauka", Leningrad,* 1964. (Author's summary (RŽMat 1965 #2 A180)) 36 #2562

Transcendence and algebraic independence of values of E-functions satisfying linear nonhomogeneous differential equations of the second order. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 42-45. (K. Mahler) 33 #7302

On a general theorem on the algebraic independence of values of E-functions. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 810-813. (K. Mahler) 34 #4209

Estimates of the degree of transcendence of the values of E-functions. (Russian) *Mat. Zametki* 2 (1967), 33-44. (K. Mahler) 35 #5399b

(with Fel'dman, N. I.) The development and present state of the theory of transcendental numbers. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 3 (135), 3-81. (K. Mahler) 35 #5400

On estimates of the measure of transcendentality of the values of E-functions. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 3 (135), 245-246. (K. Mahler) 35 #5399a

(with Pjateckiĭ-Šapiro, I. I.) Aleksandr Osipovič Gel'fond. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 3 (135), 247-256. (1 *plate*) (Editors) 35 #2711

Transcendentality and algebraic independence of values of E-functions. (Russian) *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 299-307. *Izdat. "Mir", Moscow,* 1968. (K. Mahler) 39 #5481

Algebraic independence of the values of certain hypergeometric E-functions. (Russian) *Trudy Moskov. Mat. Obšč.* 18 (1968), 55-64. (S. Chowla) 38 #4419

A certain theorem of C. Siegel. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 6, 39-42. (K. Mahler) 43 #160

(with Levin, B. V.; Fel'dman, N. I.) Alexander O. Gelfond. *Acta Arith.* 17 (1970/71), 315-336. (Editors) 43 #7286

(with Fel'dman, N. I.) The methods of A. O. Gel'fond in the theory of transcendental numbers. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 201-202. (K. Mahler) 41 #6788

Šidlovksiĭ, V. P.

The influence of slip on the characteristics of the laminar boundary layer in hypersonic flow. (Russian) *Inž. Ž.* 1 (1961), *no.* 2, 52-59. 31 #994

Some problems on unsteady motion of a viscous electrically conducting fluid in a magnetic field. (Russian. French, German and English summaries) *Rev. Méc. Appl.* 8 (1963), 757-767. (Y. Shimizu) 33 #973

Sidney, S. J.

(with Stout, E. L.) A note on interpolation. *Proc. Amer. Math. Soc.* 19 (1968), 380-382. (R. H. Cox) 36 #6944

Point derivations in certain sup-norm algebras. *Trans. Amer. Math. Soc.* 131 (1968), 119-127. (P. Civin) 36 #4344

Properties of the sequence of closed powers of a maximal ideal in a sup-norm algebra. *Trans. Amer. Math. Soc.* 131 (1968), 128-148. (P. Civin) 36 #5701

An example concerning core measures. *Proc. Amer. Math. Soc.* 26 (1970), 428-430. (T. Gamelin) 41 #8997

Peak points for hypo-Dirichlet algebras. *Proc. Amer. Math. Soc.* 26 (1970), 431-436. (D. Sarason) 41 #8998

Sidonskiĭ, O. B.

Computation of Bessel functions from the recurrence relation by the double-sweep method. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1967, *no.* 13, 3-7. (Walter Gautschi) 43 #7042

Sidorenko, A. D.

(with Roždestvenskiĭ, B. L.) On the impossibility of "gradient catastrophe" for weakly nonlinear systems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1176-1179. (R. N. Goss) 36 #1824

(with Roždestvenskiĭ, B. L.) A problem with contact discontinuity. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1352-1359. (A. D. Solomon) 40 #7652

Sidorov, A. F.

On an algorithm for computation of optimal difference nets. (Russian) *Trudy Mat. Inst. Steklov.* 74 (1966), 147-151. (L. Veidinger) 35 #2507

A certain class of exact solutions of the equations of hydrodynamics. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1967, *no.* 13, 26-29. (M. Yanowitch) 44 #1298

Sidorov, E. A.

Topologically indecomposable transformations of n-dimensional space. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 326-330. (B. M. Schein (Šaĭn)) 35 #3644

The existence of topologically indecomposable transformations of an n-dimensional region which are not ergodic. (Russian) *Mat. Zametki* 3 (1968), 427-430. (M. Eisenberg) 37 #375

Smooth topologically transitive dynamical systems. (Russian) *Mat. Zametki* 4 (1968), 751-759. (M. Eisenberg) 39 #939

A connection between topological transitivity and ergodicity. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 4 (83), 77-82. (M. Eisenberg) 40 #302

(with Bokov, V. V.) A method of variable parameters of elasticity in the problem of elasto-plastic torsion of a cylinder. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 108 (1970), *čast'* 2, 65-70. (M. Sokołowski) 44 #3552

Sidorov, Ju. V.

The Cauchy problem for an equation of the first order with respect to time, with variable coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 1012-1014. (A. Friedman) 36 #6782

The Cauchy problem for Schrödinger's equation with variable coefficients. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 580-594. (L. K. Jackson) 36 #5530

The Cauchy problem for an equation of the first order in time with two independent variables. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 155-166. (R. N. Goss) 37 #1766

* (with Evgrafov, M. A.; Fedorjuk, M. V.; Šabunin, M. I.; Bežanov, K. A.) Сборник задач по теории аналитических функций. (Russian) [A collection of problems in the theory of analytic functions] *Izdat. "Nauka", Moscow*, 1969. (Editors) 41 #7075

Sidorov, L. A.

Certain properties of surfaces of negative outer curvature in Lobačevskiĭ space. (Russian) *Mat. Zametki* 4 (1968), 165-168. (V. Havel) 38 #3787

Sidorov, N. A.

The branching of the solutions of the Cauchy problem for a certain class of nonlinear integro-differential equations. (Russian) *Communications of Works of the Irkutak State Univ. Comput. Center, No. I (Russian)* pp. 27-46. *Irkutsk. Gos. Univ. Vyčisl. Centr. Irkutsk*, 1966. (P. Aĭzengendler (RŽMat 1968 #8 B435)) 41 #5918

The singular solutions of certain classes of integro-differential equations. (Russian) *Communications of Works of the Irkutsk State Univ. Comput. Center, No. I (Russian)*, pp. 72-77. *Irkutsk. Gos. Univ. Vyčisl. Centr. Irkutsk*, 1966. (P. Aĭzengendler (RŽMat 1968 #6 B488)) 41 #5919

Application of a Newton diagram to the determination of singular solutions of integro-differential equations. (Russian) *Communications of Works of the Irkutsk State Univ. Comput. Center. No. I (Russian)*, pp. 276-277. *Irkutsk. Gos. Univ. Vyčisl. Centr. Irkutsk*, 1966. (P. Aĭzengendier (RŽMat 1968 #6 B489)) 41 #5920

The branching of the solutions of certain classes of integro-differential equations. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian)*, pp. 167-173. *Habarovsk. Gos. Ped. Inst., Khabarovsk*, 1967. (O. E. Stanaitis) 41 #779

A solution of a certain class of nonlinear integro-partial differential equations. (Russian) *Proc. Sixth Interuniv. Sci. Conf. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian)*, pp. 174-179. *Habarovsk. Gos. Ped. Inst., Khabarovsk*, 1967. (J. Kolomý) 41 #4176

Branching of solutions of the Cauchy problem for a class of nonlinear integro-differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1592-1601. (L. von Wolfersdorf) 36 #4307

Solution of the Cauchy problem for a certain class of integro-differential equations with analytic nonlinearities. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1309-1316. (St. I. Gheorghiţă) 37 #6720

The singular solutions of a certain class of integro-partial differential equations. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 36-45. (V. Trenogin (RŽMat 1969 #5 B474)) 42 #3531

The branch points and singular solutions of certain classes of integral and integro-differential equations with two parameters. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 66-73. 42 #3525

Sidorov, V. P.

(with Soldatenkov, T. R.) Plasma entrainment by a rotating electromagnetic field. *Ž. Tehn. Fiz.* 35 (1965), 1749-1754 *(Russian); translated as Soviet Physics Tech. Phys.* 10 (1966), 1354-1357. (V. H. Weston) 33 #3596

Šidov, L. I.

On a theorem of Koljankovskiĭ. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 3 (1959), 217-224. (S. A. Safonov (RŽMat 1961 #12 A279)) 44 #2833

Some properties of unsolvable finite groups. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 36 (1964), 531-538. (P. Fong) 30 #3133

Maximal subgroups of finite groups. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 682-683. (D. L. Barnett) 44 #1726

Ši Dzen Hu. See Hu, Sze-tsen.

Siebeneicher, Christian

(with Dress, Andreas) Zur Theorie der azyklischen Modelle. *Arch. Math. (Basel)* 19 (1968), 621-623 (1969). (A. Dold) 39 #4251

Siebenmann, Laurence Carl

A characterization of free projective planes. *Pacific J. Math.* 15 (1965), 293-298. (G. Panella) 31 #3924

(with Sondow, J.) Some homeomorphic sphere paris that are combinatorially distinct. *Comment. Math. Hlev.* 41 (1966/67), 261-272. (R. K. Lashof) 35 #4933

Pseudo-annuli and invertible cobordisms. *Arch. Math. (Basel)* 19 (1968), 528-535. (A. Liulevicius) 39 #968

On the homotopy type of compact topological manifolds. *Bull. Amer. Math. Soc.* 74 (1968), 738-742. (H. Noguchi) 37 #3567

On detecting Euclidean space homotopically among topological manifolds. *Invent. Math.* 6 (1968), 245-261. (H. Noguchi) 38 #6601

(with Kirby, R. C.) On the triangulation of manifolds and the Hauptvermutung. *Bull. Amer. Math. Soc.* 75 (1969), 742-749. (R. K. Lashof) 39 #3500

(with Lickorish, W. B. R.) Regular neighbourhoods and the stable range. *Trans. Amer. Math. Soc.* 139 (1969), 207-230. (K. W. Kwun) 39 #962

On detecting open collars. *Trans. Amer. Math. Soc.* 142 (1969), 201-227. (J. P. Levine) 39 #7605

Disruption of low-dimensional handlebody theory by Rohlin's theorem. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga., 1969)*, pp. 57-76. *Markham, Chicago, Ill.*, 1970. (A. H. Wallace) 42 #6836

Are nontriangulable manifolds triangulable? *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga., 1969)*, pp. 77-84. *Markham, Chicago, Ill.*, 1970. (A. H. Wallace) 42 #6837

A total Whitehead torsion obstruction to fibering over the circle. *Comment. Math. Helv.* 45 (1970), 1-48. (R. W. Sharpe) 44 #4768

Infinite simple homotopy types. *Nederl. Akad. Wetensch. Proc Ser. A* 73 = *Indag. Math.* 32 (1970), 479-495. (A. J. Sieradski) 44 #4746

(with Kirby, R. C.) Some theorems on topological manifolds. *Manifolds--Amsterdam* 1970 *(Proc. Nuffic Summer School)* pp. 1-7. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin*, 1971. (C. B. Thomas) 44 #1037

de Siebenthal, Jean

Sur certains modules dans une algèbre de Lie semi-simple. *Comment. Math. Helv.* 44 (1969), 1-44. (G. B. Seligman) 39 #2828

Sieber, J. L.

(with Pervin, W. J.) Connectedness in syntopogenous spaces. *Proc. Amer. Math. Soc.* 15 (1964), 590-595. (K. W. Kwun) 29 #4020

(with Pervin, W. J.) Additional separation axioms for syntopogenous spaces. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Ind Math.* 27 (1965), 119-121. (K. W. Kwun) 30 #2448

(with Pervin, W. J.) Completeness in quasi-uniform spaces. *Math. Ann.* 158 (1965), 79-81. (J. R. Isbell) 30 #2449

(with Pervin, W. J.) Another definition for completeness in syntopogenous spaces. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 384-386. (Á. Császár) 33 #6575

Sieber, Norbert

Über eine Ausdehnung der Maxwellschen Darstellung der Kugelfunktionen. I, II. *Wiss. Z. Hochsch. Architekt. Bauwesen Weimar* 9 (1962), 375-377; *ibid.* 9 (1962), 457-462. (Editors) 30 #4999

Sieber, Wolfgang

Abschätzung des Restintegrals bei der Verhaltensfunktion eines Regelsystems. (English summary) *Z. Angew. Math. Phys.* 17 (1966), 593-608. (Wolfdietrich Müller) 34 #7234

Siebert, Manfred

Ein Verfahren zur unmittelbaren Bestimmung der vertikalen Leitfähigkeitsverteilung im Rahmen der erdmagnetischen Tiefensondierung. (English summary) *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1964, 25-35. (E. Kogbetliantz) 29 #4600

Siefkes, Dirk

Recursion theory and the theorem of Ramsey in one-place second order successor arithmetic. *Contributions to Math. Logic (Colloquium, Hannover, 1966)*, pp. 237-254. *North-Holland, Amsterd* 1968. (J. R. Büchi) 39 #64

* Büchi's monadic second order successor arithmetic. Decidabl theories, I. Edited by Gert H. Müller. *Springer-Verlag, Berlin-N York*, 1970. xii + 130 *pp.* (K. Schütte) 44 #6488

Siegel, Armand

(with Meecham, William C.) Wiener-Hermite expansion in mode turbulence at large Reynolds numbers. *Phys. Fluids* 7 (1964), 117 1190. (J. Bass) 29 #4370

(with Imamura, Tsutomu; Meecham, William C.) Symbolic calcu of the Wiener process and Wiener-Hermite functionals. *J. Mathematical Phys.* 6 (1965), 695-706. (Authors' summary) 30 #5358

(with Imamura, Tsutomu; Meecham, William C.) Wiener-Hermite expansion in model turbulence in the late decay stage. *J. Mathematical Phys.* 6 (1965), 707-721. (J. Bass) 30 #5359

(with Akama, H.) Small-parameter expansions of linear Boltzmann collision operators. *Physica* 31 (1965), 1493-1519. (G. Weiss) 33 #3718

* (with Wiener, Norbert; Rankin, Bayard,; Martin, William Ted) Differential space, quantum systems, and prediction. *The M.I.T. Press, Cambridge, Mass.-London*, 1966. x + 176 *pp.* (M. Loève) 35 #7394

(with Kahng, W.-H.) The Cameron-Martin-Wiener method in turbulence and in Burgers' model: General formulae, and applicati to late decay. *J. Fluid Mech.* 41 (1970), 593-618. (W. O. Crimin Jr.) 43 #4347

Siegel, Carl Ludwig

* Lectures on Riemann matrices. Notes by S. Raghavan and S. S Rangachari. Tata Institute of Fundamental Research Lectures on Mathematics, No. 28. *Tata Institute of Fundamental Research, Bombay*, 1963. iii + 127 + ii *pp.* (M. Eichler) 42 #1861

Moduln Abelscher Funktionen. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1963, 365-427. (M. Eichler) 29 #3473

* Symplectic geometry. *Academic Press, New York-London*, 1964. viii + 86 *pp.* (Editors) 29 #1362

Bestimmung der elliptischen Modulfunktion durch eine Transformationsgleichung. *Abh. Math. Sem. Univ. Hamburg* 27 (1964), 32 38. (R. C. Gunning) 29 #2391

Über die Fourierschen Koeffizienten der Eisensteinschen Reih *Mat.-Fys. Medd. Danske Vid. Selsk.* 34, *no.* 6, 20 *pp.* (1964). (M. Eichler) 30 #1984

Beweis einer Formel für die Riemannsche Zetafunktion. *Math. Scand.* 14 (1964), 193-196. (S. Knapowski) 31 #2219

Zu zwei Bemerkungen Kummers. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1964, 51-57. (L. Carlitz) 29 #1198

* Lectures on advanced analytic number theory. Notes by S. Raghavan. Tata Institute of Fundamental Research Lectures on Mathematics, No. 23. *Tata Institute of Fundamental Research, Bombay,* 1965. iii + 331 + iii *pp.* (E. Grosswald) 41 #6760

* Gesammelte Abhandlungen. Bände I, II, III. Herausgegeben von K. Chandrasekharan und H. Maass. *Springer-Verlag, Berlin-New York,* 1966. *B. I:* v + 548 *pp. (1 plate); and B. II:* iii + 491 *pp.; B. III:* iii + 484 *pp.* (W. J. LeVeque) 33 #5441

* Transzendente Zahlen. Übersetzung aus dem Englischen von B. Fuchssteiner und D. Laugwitz. B. I. Hochschultaschenbücher, Band 137*. *Bibliographisches Institut, Mannheim,* 1967. 86 *pp.* (Editors) 35 #133

* Lectures on the singularities of the three-body problem. Notes by K. Balagangadharan and M. K. Venkatesha Murthy. Tata Institute of Fundamental Research Lectures on Mathematics, No. 42. *Tata Institute of Fundamental Research, Bombay,* 1967. ii + 245 + iv *pp.* (H. Jacobowitz) 42 #2126

* Lectures on quadratic forms. Notes by K. G. Ramanathan. Tata Institute of Fundamental Research Lectures on Mathematics, No. 7. *Tata Institute of Fundamental Research, Bombay,* 1967. ii + 192 + iv *pp.* (S. Böge) 42 #5911

Zum Beweise des Starkschen Satzes. *Invent. Math.* 5 (1968), 180-191. (E. Inaba) 37 #4045

Über die Fourierschen Koefficzienten von Eisensteinschen Reihen der Stufe T. *Math. Z.* 105 (1968), 257-266. (J. Spilker) 37 #4022; erratum, 40, p. 1705

Bernoullische Polynome und quadratische Zahlkörper. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1968, 7-38. (A. I. Vinogradov) 38 #2123

* Topics in complex function theory. Vol. I: Elliptic functions and uniformization theory. Translated from the original German by A. Shenitzer and D. Solitar. Interscience Tracts in Pure and Applied Mathematics, No. 25. *Wiley-Interscience [A Division of John Wiley & Sons], New York-London-Sydney,* 1969. ix + 186 *pp.* (A. J. Lohwater) 41 #1977

Zu den Beweisen des Vorbereitungssatzes von Weierstrass. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 297-306. *Plenum, New York,* 1969. (S. Hitotumatu) 42 #3300

Berechnung von Zetafunktionen an ganzzahligen Stellen. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1969, 87-102. (S. Chowla) 40 #5570

Abschätzung von Einheiten. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1969, 71-86. (S. Chowla) 40 #2640

Über die Fourierschen Koeffizienten von Modulformen. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1970, 15-56. (J. Spilker) 44 #2706

iegel, Carole

On a moving server with bounded range. *Comm. Pure Appl. Math.* 21 (1968), 359-370. (J. Keilson) 39 #4963

Results on a transient queue. *Comm. Pure Appl. Math.* 21 (1968), 371-384. (J. Keilson) 39 #4964

iegel, Jerrold

Cohomology and homology theories for categories of principal G-bundles. *Trans. Amer. Math. Soc.* 120 (1965), 428-437. (E. Dyer) 32 #8336

Higher order cohomology operations in local coefficient theory. *Amer. J. Math.* 89 (1967), 909-931. (N. Stein) 37 #913

G-spaces, H-spaces and W-spaces. *Pacific J. Math.* 31 (1969), 209-214. (A. J. Sieradski) 40 #4950

(with Jerison, Meyer; Weingram, Stephen) Distinctive properties of Stone-Čech compactifications. *Topology* 8 (1969), 195-201. (A. W. Hager) 39 #4607

Cohomology operations in local coefficient theory. *Illinois J. Math.* 15 (1971), 52-63. (R. E. Mosher) 42 #5254

iegert, Arnold J. F.

Applications of function space integrals to problems in equilibrium statistical mechanics. *Analysis in function space, pp.* 154-163. *M.I.T. Press, Cambridge, Mass.,* 1964. (G. Heber) 29 #4428

Applications of function space integrals to problems in equilibrium statistical mechanics. *Proc. Conf. on Theory and Appl. of Analysis in Function Space (Dedham, Mass., 1963), pp.* 154-163. *The M.I.T. Press, Cambridge, Mass.,* 1964. (A. Lenard) 31 #4510

(with Meeron, Emmanuel) Generalizations of the virial and wall theorems in classical statistical mechanics. *J. Mathematical Phys.* 7 (1966), 741-750. (J. L. Lebowitz) 33 #5314

(with Vezzetti, David J.) On the Ising model with long-range interaction. *J. Mathematical Phys.* 9 (1968), 2173-2193. (G. Bandyopadhyay) 40 #6907

(with Jalickee, John B.; Vezzetti, David J.) On fluids of particles with short-range repulsion and weak long-range attractive interaction. *J. Mathematical Phys.* 10 (1969), 1442-1454. (From the authors' summary) 39 #7914

(with Ekstein, H.) On a reinterpretation of decay experiments. *Ann. Physics* 68 (1971), 509-520. (M. J. Mączyński) 44 #7901

iegmund, David Oliver

Some problems in the theory of optimal stopping rules. *Ann. Math. Statist.* 38 (1967), 1627-1640. (S. M. Samuels) 36 #4718

Some one-sided stopping rules. *Ann. Math. Statist.* 38 (1967), 1641-1646. (H. Teicher) 36 #3462

(with Gundy, Richard F.) On a stopping rule and the central limit theorem. *Ann. Math. Statist.* 38 (1967), 1915-1917. (L. A. Shepp) 36 #931

(with Robbins, H.) Iterated logarithm inequalities and related statistical procedures. *Mathematics of the Decision Sciences, Part 2 (Seminar, Stanford, Calif.,* 1967*), pp.* 267-279. *Amer. Math. Soc., Providence, R. I.,* 1968. (W. L. Steiger) 40 #5004

(with Simons, Gordon; Feder, Paul) Existence of optimal stopping rules for rewards related to S_n/n^1. *Ann. Math. Statist.* 39 (1968), 1228-1235. (H. Teicher) 37 #7042

On the asymptotic normality of one-sided stopping rules. *Ann. Math. Statist.* 39 (1968), 1493-1497. (J. Kiefer) 37 #7043

(with Robbins, H.; Wendel, J.) The limiting distribution of the last time $s_n \geq n\varepsilon$. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1228-1230. (C. Stone) 39 #4946

On moments of the maximum of normed partial sums. *Ann. Math. Statist.* 40 (1969), 527-531. (J. Kiefer) 39 #1052

(with Olshen, R. A.) Some first passage problems for $S_n/n^{1/2}$. *Ann. Math. Statist.* 40 (1969), 648-652. (J. Kiefer) 39 #1051

The variance of one-sided stopping rules. *Ann. Math. Statist.* 40 (1969), 1074-1077. (J. H. B. Kemperman) 39 #4947

(with Robbins, Herbert) Confidence sequences and interminable tests. (With discussion. French summary) Proc. Thirty-seventh Session Internat. Statist. Inst. (London, 1969). *Bull. Inst. Internat. Statist.* 43 (1969), *book* 1, 379-387. (H. Teicher) 44 #6111

(with Robbins, H.) Probability distributions related to the law of the iterated logarithm. *Proc. Nat. Acad. Sci. U.S.A.* 62 (1969), 11-13. (J. G. Wendel) 39 #3561

(with Robbins, Herbert) Boundary crossing probabilities for the Wiener process and sample sums. *Ann. Math. Statist.* 41 (1970), 1410-1429. (M. B. Woodroofe) 43 #2796

(with Olshen, Richard) On the maximum likelihood estimate of cell probabilities. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 19 (1971), 52-56. (J. Kiefer) 44 #6097

Sieklucki, K.

A generalization of a theorem of K. Borsuk concerning the dimension of ANR-sets. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 10 (1962), 433-436. (J. Dugundji) 33 #6588 (E)

Correction to "A generalization of a theorem of K. Borsuk concerning the dimension of ANR-sets". *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 695. (Editors) 31 #1657

A theorem on fixed points for some plane acyclic continua. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 377-379. (R. E. Smithson) 36 #4548

On imbedding of mappings. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 87-92. (E. Hemmingsen) 37 #3541

On a class of plane acyclic continua with the fixed point property. *Fund. Math.* 63 (1968), 257-278. (B. J. Ball) 39 #2139

A generalization of the Borsuk theorem on antipodal points. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 629-631. (P. T. Church) 40 #8037

Realization of mappings. *Fund. Math.* 65 (1969), 325-343. (K. Aoki) 40 #2021

A generalization of a theorem of S. Mazurkiewicz concerning Peano functions. *Prace Mat.* 12 (1969), 251-253. (R. E. Smithson) 40 #2032

Siekmann, Julius

(with Uldrick, J. P.) On the swimming of a flexible plate of arbitrary finite thickness. *J. Fluid Mech.* 20 (1964), 1-33. (K. B. Ranger) 29 #6719

(with Reece, J. W.; Uldrick, J. P.) Some recent developments in sea animal locomotion hydrodynamics. *Developments in Theoret. and Appl. Mech. Vol.* 2 *(Proc. Second Southeastern Conf., Atlanta, Ga.,* 1964*), pp.* 337-349. *Pergamon, Oxford,* 1965. (Authors' summary) 30 #5556

Sielaff, Klaus

* Einführung in die Theorie der Gruppen. Schriftenreihe zur Mathematik, Heft 4. Dritte durchgesehene und erweiterte Auflage. *Otto Salle Verlag, Frankfurt a. M.,* 1966. iv + 104 *pp.* (Editors) 34 #7618

* Einführung in die Theorie der Gruppen. Vierte durchgesehene und erweiterte Auflage. Schriftenreihe zur Mathematik. *Otto Salle Verlag, Frankfurt,* 1969. vi + 106 *pp.* (Editors) 42 #6083

Sieradski, Allan J.

(with Dyer, M. N.) Coverings of mapping spaces. *Pacific J. Math.* 31 (1969), 325-336. (J. Dugundji) 41 #2683

Twisted self-homotopy equivalences. *Pacific J. Math.* 34 (1970), 789-802. (C. M. Naylor) 43 #4034

Generalized theories for k-spaces. *Proc. Amer. Math. Soc.* 24 (1970), 52-56. (W. M. Singer) 41 #6206

An example of Hilton and Roitberg. *Proc. Amer. Math. Soc.* 28 (1971), 247-253. (J. W. Rutter) 43 #6925

Sierakowski, R. L.

(with Schile, R. D.) On the axially symmetric deformation of a nonhomogeneous, elastic material. *J. Franklin Inst.* 278 (1964), 327-336. (Authors' summary) 29 #5442

Sierpiński, Wacław

Sur les nombres dont la somme de diviseurs est une puissance du nombre 2. *Calcutta Math. Soc. Golden Jubilee Commemoration Vol.* (1958/59), *Part I, pp.* 7-9. *Calcutta Math. Soc., Calcutta,* 1963. (L. Carlitz) 32 #5584

Sur les ensembles raréfiés de nombres naturels. *Essays on the foundations of mathematics, pp.* 300-303. *Magnes Press, Hebrew Univ., Jerusalem,* 1961. (Đ. Kurepa) 29 #5737

* Pythagorean triangles. Translated by Ambikeshwar Sharma. The Scripta Mathematica Studies, No. 9. *Published by Graduate School of Science, Yeshiva University, New York,* 1962. viii + 107 *pp.* (E. S. Barnes) 33 #97

On composite numbers of the type $(2^p + 1)/3$, where p is a prime number. (Polish. Russian and French summaries) *Prace Mat.* 7 (1962), 169-172. (J. W. Andrushkiw) 32 #84

Sur un problème de A. Makowski concernant les nombres tétraédraux. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 115-119 (1963). (L. Carlitz) 30 #1969

Sur une conséquence d'une hypothèse sur les polynômes. *Rend. Circ. Mat. Palermo* (2) 11 (1962), 283-284. (A. Schinzel) 29 #3413

L'axiome du choix. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 31 (1963), *no.* 4, 9-19. (E. J. Lemmon) 31 #69

(with Schinzel, A.) Sur l'équation diophantienne $(x^2-1)(y^2-1) =[(y-x/2)^2-1]^2$. *Elem. Math.* 18 (1963), 132-133. (W. Ljunggren) 29 #1180

On triangular numbers which are sums of two smaller triangular numbers. (Polish) *Wiadom. Mat.* (2) 7, 27-28 (1963). (J. W. Andrushkiw) 32 #85

A theorem equivalent to the theorem on arithmetic progression. (Polish) *Wiadom. Mat.* (2) 7, 29 (1963). (A. Schinzel) 32 #1162

Sequences of pairwise relatively prime numbers. (Polish) *Wiadom. Mat.* (2) 7, 31-38 (1963). (A. Schinzel) 32 #1184

* A selection of problems in the theory of numbers. Translated from the Polish by A. Sharma. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. 126 *pp.* (H. Halberstam) 30 #1078

* Elementary theory of numbers. Translated from Polish by A. Hulanicki. Monografie Matematyczne, Tom 42. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. 480 *pp.* (W. J. LeVeque) 31 #116

* O teorii mnogości. (Polish) [On the theory of sets] Biblioteka Nauczyciela Matematyki, No. 5. *Państwowe Zakłady Wydawnictw Szkolnych, Warsaw,* 1964. 66 *pp.* (Editors) 35 #6562

* 200 zadań z elementarnej teorii liczb. (Polish) [200 problems in the elementary theory of numbers] Biblioteczka Matematyczna, No. 17. *Państwowe Zakłady Wydawnictw Szkolnych, Warsaw,* 1964. 140 *pp.* 37 #2665

Les binômes $x^2 + n$ et les nombres premiers. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 259-260. (R. D. James) 29 #4746

Sur les nombres pentagonaux. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 513-517. (R. J. Levit) 30 #1970

Sur les suites de nombres premiers consécutifs et sur les nombres premiers dans les suites de nombres naturels consécutifs. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 632-640. (H. Halberstam) 31 #1236

Sur les suites d'entiers deux à deux premiers entre eux. *Enseignement Math.* (2) 10 (1964), 229-235. (S. Chowla) 29 #2215

Sur les familles d'ensembles infinis des nombres naturels. *Fund. Math.* 56 (1964), 115-116. (L. Gillman) 31 #3342

Sur un théorème de F. Proth. *Mat. Vesnik* 1(16) (1964), 243-244. (A. Brumer) 32 #7483a

Remarques sur un problème de P. Erdős. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 125-134. (A. Schinzel) 30 #3056

(with Rotkiewicz, A.) Sur l'équation diophantienne $2^x-xy = 2$. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 135-137. (J. B. Kelly) 30 #1972

Sur les itérations de certaines fonctions numériques. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 257-262. (A. Schinzel) 32 #4077

(See also Fryde, Matthew M., 29 #3342)

Remarks on a problem of P. Erdős. (Polish) *Wiadom. Mat.* (2) 7, 221-228 (1964). (A. Schinzel) 32 #1157

(with Schinzel, A.) On the equation $x^2-2y^2 = k$. (Polish) *Wiadom. Mat.* (2) 7, 229-232 (1964). (J. W. Andrushkiw) 32 #2375

* Cardinal and ordinal numbers. Second revised edition. Monografie Matematyczne, Vol. 34. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1965. 491 *pp.* (L. Gillman) 33 #2549

Sur quelques conséquences d'une hypothèse de M. A. Schinzel sur les nombres premiers. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 11B (1965), 43-45. (O. H. Körner) 34 #1290

(with Schinzel, A.) Sur les puissances propres. *Bull. Soc. Roy. Sci. Liège* 34 (1965), 550-554. (T. M. Apostol) 32 #4107

Sur trois nombres triangulaires en progression arithmétique à différence triangulaire. *Elem. Math.* 20 (1965), 79-81. (T. M. Apostol) 31 #3380

Les résultats de W. A. Golubew et l'hypothèse de A. Schinzel. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Ser. II Društvo Mat. Fiz. Hrvatske* 20 (1965), 43-49. (D. H. Lehmer) 34 #1289

Remarque sur la distribution de nombres premiers. *Mat. Vesnik* 2(17) (1965), 77-78. (D. H. Lehmer) 33 #5585

Une hypothèse de A. Ferrier et celle de A. Schinzel. *Mat. Vesnik* 2(17) (1965), 147-148. (A. Schinzel) 33 #1298

Sur les nombres pseudoparfaits. *Mat. Vesnik* 2(17) (1965), 212-213. (R. J. Levit) 33 #7296

Sur un théorème équivalent à l'axiome du choix. *Notre Dame J. Formal Logic* 6 (1965), 161-162. (J. R. Büchi) 33 #2554

* О теории множеств. (Russian) [On the theory of sets] Translated from the Polish by Z. Z. Račinskiĭ. *Izdat. "Prosveščenie", Moscow,* 1966. 61 *pp.* (E. Mendelson) 35 #6563

* Ce ştim şi ce nu ştim despre numerele prime. (Romanian) [What we know and what we do not know of prime numbers] *Editura Ştiinţifică, Bucharest,* 1966. 200 *pp. (1 plate)* (Editors) 35 #6610

(with Mycielski, Jan) Sur une propriété des ensembles linéaires. *Fund. Math.* 58 (1966), 143-147. (A. Appert) 34 #4140

On divisibility of numbers. (Polish) *Wiadom. Mat.* (2) 9, 1-6 (1966). (S. Knapowski) 33 #3992

On the numbers [1, 2,..., n]. (Polish) *Wiadom. Mat.* (2) 9, 9-10 (1966). (S. Knapowski) 33 #4033

Tetrahedral numbers. (Polish) *Wiadom. Mat.* (2) 9, 209-217 (1966/67). (T. T. Tonkov) 35 #6621

(See also Congruence of sets and other monographs, 36 #23)

L'axiome du choix. *Notre Dame J. Formal Logic* 8 (1967), 257-266. (J. E. Rubin) 38 #4319

L'induction incomplète dans la théorie des nombres. *Scripta Math.* 28, 5-13 (1967). (W. Schwarz) 35 #4150

Un théorème sur les nombres triangulaires. *Elem. Math.* 23 (1968), 31-32. (From the author's introduction) 37 #4004

* 250 problems in elementary number theory. Modern Analytic ar Computational Methods in Science and Mathematics, No. 26. *Americ Elsevier Publishing Co., Inc., New York; PWN [Polish Scientific Publishers], Warsaw,* 1970. vii + 125 *pp.* (W. J. LeVeque) 42 #44

Sierra, H. G.

(with Luther, H. A.) On the optimal choice of fourth-order Runge-Kutta formulas. *Numer. Math.* 15 (1970), 354-358. (Authors summary) 42 #1337

Sieveking, Malte

(with Köhn, Johannes) Reguläre und extremale Randpunkte in der Potentialtheorie. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1489-1502. (M. Brelot) 38 #1283

Integraldarstellung superharmonischer Funktionen mit Anwendu auf parabolische Differentialgleichungen. *Seminar über Potentialtheorie, pp.* 13-68. *Springer, Berlin,* 1968. (Guy Johnson) 39 #7128

(with Köhn, Johannes) Zum Cauchyschen und Dirichletschen Problem. *Math. Ann.* 177 (1968), 133-142. (J. L. Doob) 37 #3029

Sievers, Gerald L.

On the probability of large deviations and exact slopes. *Ann Math. Statist.* 40 (1969), 1908-1921. (R. H. Farrell) 41 #4715

Siewert, C. E.

(with Zweifel, P. F.) An exact solution of equations of radiative transfer for local thermodynamic equilibrium in the non-gray case. Picket fence approximation. *Ann. Physics* 36 (1966), 61-85. (H. H. Kagiwada) 32 #7170

(with Mourad, S. A.) On solutions of an equation of transfe for a planetary atmosphere. *Astrophys. J.* 155 (1969), 555-564. (G. M. Wing) 38 #6819

(with McCormick, N. J.) Spectral-line formation by noncohere scattering. *Astrophys. J.* 162 (1970), 633-647. (K. Imre) 44 #5

(with Burniston, E. E.) Linear integral equations for a certain class of H-functions applicable to the theory of neutron tra port and radiative transfer. *J. Mathematical Phys.* 11 (1970), 3091-3095. (Authors' summary) 42 #2736

(with Bond, G. R.) On the nonconservative equation of transfer for a combination of Rayleigh and isotropic scattering. *Astro phys. J.* 164 (1971), 97-110. (A. C. Srivastava) 44 #7840

Siewierski, Lucjan

* The local solution of the coefficient problem for bounded schlicht functions. Societas Scientiarum Lodziensis, Sect. III, Nr. 68. *Państwowe Wydawnictwo Naukowe, Łódź,* 1960. 124 *pp.* (R. J. Libera) 32 #7735

On the maximum value of the functional $|a_3-\alpha a_2^2|$ in the clas of quasi-starlike functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 573-574. (Editors) 38 #1245

Sharp estimation of the coefficients of bounded univalent functions near the identity. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 575-576. (Editors) 38 #1246

On the maximum of the functional $|a_3-\alpha a_2^2|$ in the classes of quasi-starlike functions. *Ann. Polon. Math.* 22 (1969/70), 243-25 (S. D. Bernardi) 40 #4442

Šifan, L. I.

A certain heat conductivity problem with a movable boundary. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 5, 59-67. (A. Göpfert) 44 #3036

Šifrin, È. G.

Convexity of a shock wave in the subsonic segment in plane flow. *Prikl. Mat. Meh.* 33 (1969), 158-162 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 158-162. (M. G. Hall) 41 #12

(with Belocerkovskiĭ, O. M.) Transonic flows behind a detac shock wave. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 908-931. (Authors' summary) 43 #4349

Šifrin, M. A.

The analytic continuation of Dirichlet series. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 3, 30-39. (C. Tanaka) 43 #5008

Sigal, E. I.

Diagonal elements and the spectrum of matrices. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1966, *no.* 4, 86-90. (L. Mirsky) 34 #5842

The trace of an operator bundle. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 2 (12), 148-151. (J. Peetre) 41 #4280

The multiplicity of a characteristic value of a product of operator-functions. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 1 (15), 118-127. (B. R. Gelbaum) 42 #8319

Factor multiplicity of the characteristic number of a meromorphic operator function. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 4 (18), 136-152. (D. Sarason) 44 #2073

Sigal, I. See Segal, Irving E.

Sigal, I. H.

(with Čebakov, V. A.) A method of matrix processing and its application to a problem in graph theory. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 148-150. (F. Dejean) 30 #5517

Sigalov, A. G.

A new algorithm in the theory of perturbations of the continuous spectrum. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 49-52. (L. de Branges) 29 #2659

(with Žislin, G. M.) On the mixed spectrum of certain higher-dimensional differential operators of quantum mechanics. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1329-1331. (E. L. Hill) 29 #3142

(with Žislin, G. M.) On certain mathematical problems of the theory of atomic spectra. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1261-1272. (Z. Janković) 32 #8878

(with Žislin, G. M.) The spectrum of the energy operator for atoms with fixed nuclei on subspaces corresponding to irreducible representations of the group of permutations. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 835-860. (R. C. Gilbert) 33 #2289

Integral perturbations. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 373-408. (R. C. Gilbert) 34 #3335

On the basic mathematical problem of the theory of atomic spectra. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 3-20. (H. Baumgärtel) 35 #1310

On Hilbert's nineteenth and twentieth problems. (Russian) *Hilbert's problems (Russian), pp.* 204-215. *Izdat. "Nauka", Moscow,* 1969. (R. Osserman) 40 #4838

(See also Golovin, O. N.; Žislin, G. M.; Kronrod, A. S.; Landis, E. M.; Ljusternik, L. A.; Šilov, G. E., 44 #2557)

An equation of continuous descent for the quadratic form of a semibounded operator on the unit sphere. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 809-828. (A. Szép) 44 #4559

Sigalov, I. E.

The Cauchy problem for quasiparabolic systems of equations. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 4, 3-14. (O. Horáček) 39 #5935

The solution of the Cauchy problem for quasiparabolic equations with variable coefficients. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 5, 19-27. (H. G. Bzihatlov) 44 #4376

Sigillito, Vincent G.

Pointwise bounds for solutions of the first initial-boundary value problem for parabolic equations. *SIAM J. Appl. Math.* 14 (1966), 1038-1056. (J. H. Bramble) 34 #6333

On a continuous method of approximating solutions of the heat equation. *J. Assoc. Comput. Mach.* 14 (1967), 732-741. (Author's summary) 38 #2968

A priori inequalities and pointwise bounds for solutions of fourth order elliptic partial differential equations. *SIAM J. Appl. Math.* 15 (1967), 1136-1155. (J. R. Cannon) 37 #3184

(with Gustafson, Karl) Inequalities for nonlocal parabolic and higher order elliptic equations. *SIAM Rev.* 9 (1967), 531-541. (A. Pozzi) 36 #2939

Pointwise bounds for solutions of similinear parabolic equations. *SIAM Rev.* 9 (1967), 581-585. (E. D. Conway) 36 #1822

(with Kuttler, J. R.) Inequalities for membrane and Stekloff eigenvalues. *J. Math. Anal. Appl.* 23 (1968), 148-160. (L. E. Payne) 37 #1816

(with Kuttler, J. R.) Lower bounds for Stekloff and free membrane eigenvalues. *SIAM Rev.* 10 (1968), 368-370. (Editors) 38 #1821

(with Kuttler, J. R.) An inequality for a Stekloff eigenvalue by the method of defect. *Proc. Amer. Math. Soc.* 20 (1969), 357-360. (W. W. Hooker) 38 #3633

On the uniqueness of solutions of certain improperly posed problems. *Proc. Amer. Math. Soc.* 24 (1970), 828-831. (Moshe Marcus) 40 #7612

On the spatial decay of solutions of parabolic equations. (German summary) *Z. Angew. Math. Phys.* 21 (1970), 1078-1081. (D. Ramakrishna Rao) 44 #4348

Sigler, L. E.

* Exercises in set theory. Van Nostrand Mathematical Studies, No. 8. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1966. v + 134 pp. (A. H. Kruse) 35 #4106

Sigmon, Kermit

A note on means in Peano continua. *Aequationes Math.* 1 (1968), *no.* 1-2, 85-86. (L. E. Ward, Jr.) 37 #3529

Medial topological groupoids. *Aequationes Math.* 1 (1968), 217-234. (K. D. Magill, Jr.) 39 #1586

On the existence of a mean on certain continua. *Fund. Math.* 63 (1968), 311-319. (N. J. Rothman) 38 #4602

Acyclicity of compact means. *Michigan Math. J.* 16 (1969), 111-115. (P. T. Church) 41 #4528

Cancellative medial means are arithmetic. *Duke Math. J.* 37 (1970), 439-445. (R. M. Dacić) 43 #407

Idempotent topological groupoids with non-empty center. *Math. Z.* 125 (1972), 70-78. (K. H. Hofmann) 44 #6898

A strong homotopy axiom for Alexander cohomology. *Proc. Amer. Math. Soc.* 31 (1972), 271-275. (J. F. Adams) 44 #4737

Sigmund, Karl

Über Verteilungsmaße von Maßfolgen auf kompakten Gruppen. *Compositio Math.* 21 (1969), 299-311. (J. E. Cigler) 41 #1087

Generic properties of invariant measures for Axiom A diffeomorphisms. *Invent. Math.* 11 (1970), 99-109. (R. Ellis) 44 #3349

Signore, Monique

Rayonnement gravitationnel et problème des deux corps. (English summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 11 (1969), 81-130. (P. Rastall) 40 #6933

Signorini, Antonio

Résultats simples de la théorie non linéarisée de l'elasticité. *Ann. Fac. Sci. Univ. Toulouse* (4) 23 (1959), 5-21 (1962). (J. K. Skwirzynski (PA 66 #8748)) 32 #3339

Sigov, B. O.

Errors of a linear interpolator on the basis of a digital integrator with parallel transfer. (Ukrainian) *Avtomatika* 1965, *no.* 2, 81-84. (A. H. Stroud) 31 #5363

Sigov, Ju. S.

On the kinetic theory of the boundary layer between a rarefied plasma and a magnetic field. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1065-1077. (C. K. Chu) 33 #8190

The structure of a boundary layer between a rarefied plasma and a magnetic field. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1965, *no.* 2, 15-22. (J. C. J. Nihoul) 32 #8666

Sigrist, François

* Obstruction et transgression cohomologique dans les espaces fibrés. Thèse présentée à l'École polytechnique fédérale, Zürich, pour l'obtention du grade de Docteur ès sciences mathématiques. Thèse no. 3841. *Juris Verlag, Zürich,* 1967. ii + 34 pp. (J. Siegel) 36 #3357

Obstruction et transgression cohomologique dans les espaces fibrés. *Math. Z.* 101 (1967), 306-321. (G. Hirsch) 37 #6936

(with Douglas, Roy R.) Sphere bundles over spheres which are *H*-spaces. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 502-505. (M. Arkowitz) 38 #5211

Groupes d'homotopie des variétés de Stiefel complexes. *Comment. Math. Helv.* 43 (1968), 121-131. (George McCarty) 37 #5876

(with Douglas, R. R.; Hilton, P. J.) *H*-spaces. *Category Theory, Homology Theory and their Applications, II (Battelle Institute Conference, Seattle, Wash., 1968, Vol. Two), pp.* 65-73. *Springer, Berlin,* 1969. (C. M. Naylor) 40 #3543

(with Douglas, Roy R.) Homotopy-associative *H*-spaces which are sphere bundles over spheres. *Comment. Math. Helv.* 44 (1969), 308-309. (J. Stasheff) 40 #2071

Sur les nombres de James des variétés de Stiefel complexes. *Illinois J. Math.* 13 (1969), 198-201. (F. Raymond) 40 #2078

(with Douglas, Roy R.) Sphere bundles over spheres and *H*-spaces. *Topology* 8 (1969), 115-118. (I. M. James) 39 #6312

Détermination des groupes d'homotopie $\pi_{2k+7}(U_{k+m,m})$. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1061-A1062. (George McCarty) 40 #8056

H-maps between spheres. *H-Spaces (Actes Réunion Neuchâtel, 1970), pp.* 39-41. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin,* 1971. (M. Arkowitz) 44 #3320

(See also *H*-spaces, 44 #4748)

(with Suter, Ulrich) Sur l'associativité homotopique des *H*-espaces de rang 2. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A890-A892. (A. H. Copeland, Jr.) 44 #5960

Sigrist, Karl

(with Hersch, Joseph) Isoperimetrische Ungleichungen für elastisch gebundene Membranen auf Dreiseiten und auf Vierseiten. (English summary) *Z. Angew. Math. Phys.* 21 (1970), 836-841. (D. O. Banks) 43 #8005

Sih, G. C.

Fracture strength of a rectangular beam with surface cracks. *J. Soc. Indust. Appl. Math.* 12 (1964), 403-412. (B. A. Boley) 29 #4300

Boundary problems for longitudinal shear cracks. *Developments in Theoret. and Appl. Mech. Vol. 2 (Proc. Second Southeastern Conf., Atlanta, Ga., 1964), pp.* 117-130. *Pergamon, Oxford,* 1965. (J. W. Craggs) 30 #5549

Stress distribution near internal crack tips for longitudinal shear problems. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 51-58. (J. W. Craggs) 30 #3609

(with Kassir, M. K.) Geometric discontinuities in elastostatics. *J. Math. Mech.* 16 (1967), 927-948. (J. Stickforth) 34 #7083

(with Hartranft, R. J.) Uniqueness of the concentrated-load problem in the linear theory of couple-stress elasticity. (Italian summary) *Meccanica—J. Italian Assoc. Theoret. Appl. Mech.* 3 (1968), 195-198. (B. A. Boley) 43 #1495

(with Hartranft, R. J.) The use of eigenfunction expansions in the general solution of three-dimensional crack problems. *J. Math. Mech.* 19 (1969/70), 123-138. (B. R. Seth) 39 #7848

(with Loeber, J. F.) A class of wave diffraction problems involving geometrically-induced singularities. *J. Math. Mech.* 19 (1969/70), 327-349. (I. M. Longman) 40 #1074

Šihov, S. B.

Certain questions of the mathematical theory of the critical state of a reactor. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 113-127. (Z. Janković) 35 #2596

(with Šiškov, L. K.) The existence and uniqueness of a positive solution of a certain critical reactor equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 686-690. (Z. Janković) 39 #7916

Certain questions of the mathematical theory of the critical state of a reactor. Abstract. (Russian) *Computing Methods in Transport Theory (Proc. First All-Union Sympos., Novosibirsk, 1967) (Russian), pp.* 210-217. *Atomizdat, Moscow,* 1969. (M. Drăganu) 44 #7910

(with Škurpelov, A. A.) Analysis of a nonstationary neutron transport equation with breeding. (Russian) *Computing Methods in Transport Theory (Proc. First All-Union Sympos., Novosibirsk, 1967) (Russian), pp.* 218-227. *Atomizdat, Moscow,* 1969. (J. P. Guiraud) 44 #7911

Šik, František

Kompakt erzeugte vollständige *l*-Gruppen. (Russian and Romanian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 8(12) (1962), *fasc.* 3-4, 5-8. (P. F. Conrad) 32 #2496

Über additive und isotone Funktionale auf geordneten Gruppen. (Russian summary) *Czechoslovak Math. J.* 12(87) (1962), 611-621. (A. Jaeger) 29 #172

Compactness of a class of spaces of ultra-antifilters. (Spanish. English and Russian summaries) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 1, *fasc.* 1, 19-25. (H. W. Guggenheimer) 31 #3363

Structure and realizations of lattice-ordered groups. (Spanish. German summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 3, *fasc.* 2-3, 1-29. (W. C. Holland) 32 #145

Sous-groupes simples et idéaux simples des groupes réticulés. *C. R. Acad. Sci. Paris* 261 (1965), 2791-2793. (P. F. Conrad) 33 #2738

Types spéciaux de réalisations des groupes réticulés. *C. R. Acad. Sci. Paris* 261 (1965), 4948-4949. (W. C. Holland) 32 #7656

Struktur und Realisierungen von Verbandsgruppen. III. Einfache Untergruppen und einfache Ideale. (Spanish summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1, *no.* 4, *fasc.* 4/5, 1-20 (1966). (W. C. Holland) 34 #7681

Struktur und Realisierungen von Verbandsgruppen. V. Schwache Einheiten in Verbandsgruppen. *Math. Nachr.* 33 (1967), 221-229. (W. C. Holland) 42 #3002

Archimedische kompakt erzeugte Verbandsgruppen. *Math. Nachr.* 38 (1968), 323-340. (V. S. Krishnan) 39 #4072

Sik, Young Park. See Park, Young Sik.

Sikdar, Kripasindhu

A comparative study of algorithms for multiple-precision radix-conversions. *Sankhyā Ser. B* 30 (1968), 315-334. (Author's summary) 40 #6729

Šikin, E. V.

The regular realization in the large in E^3 of two-dimensional metrics of class C^2 with negative curvature of class C^1. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 1014-1016. (H. Busemann) 40 #4901

Šikin, I. S.

On the general theory of steady motion in relativistic hydrodynamics. *Dokl. Akad. Nauk SSSR* 142 (1962), 296-298 *(Russian); translated as Soviet Physics Dokl.* 7 (1962), 13-14. (T. P. Anđelić) 29 #883

The interpretation of nonstationary relativistic hydrodynamics in Minkowski space. *Dokl. Akad. Nauk SSSR* 142 (1962), 564-567 *(Russian); translated as Soviet Physics Dokl.* 7 (1962), 15-17. (T. P. Anđelić) 29 #884

Riemann waves in relativistic magnetohydrodynamics. *Dokl. Akad. Nauk SSSR* 159 (1964), 1240-1243 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 1059-1062. (N. Coburn) 32 #734

Relativistic effects for magnetohydrodynamic waves. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 11 (1969), 343-372. (Gerald Rosen) 40 #6910

Šikin, V. B.

The theory of diffusional viscous flow of polycrystalline solids. *Fiz. Tverd. Tela* 6 (1964), 2780-2790 *(Russian); translated as Soviet Physics Solid State* 6 (1965), 2211-2218. (B. A. Boley) 31 #5442

Sikirjavyĭ, V. Ja.

Ideals in the ring of measurable functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 3, 3-5. (J. E. Cigler) 38 #6355

A constructive description of the axiomatic Laplace operator for functions on a Hilbert space. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 2, 83-86. (E. Gerlach) 43 #7946

Sikkema, Carl D.

A duality between certain spheres and arcs in S^3. *Trans. Amer. Math. Soc.* 122 (1966), 399-415. (O. G. Harrold) 33 #7991

(with Kinoshita, Shin'ichi) On arc and ball pairs and quasi-translations of the 3-sphere. *Michigan Math. J.* 17 (1970), 165-173. (B. J. Ball) 41 #4511

A duality between spheres and spheres with arcs. *Proc. Amer. Math. Soc.* 25 (1970), 781-785. (B. J. Ball) 41 #4506

Pseudo-isotopies of arcs and knots. *Proc. Amer. Math. Soc.* 31 (1972), 615-616. (Wilbur Whitten) 44 #3310

Sikkema, P. C.

On the approximation theorem of Weierstrass. (Dutch) *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1963, ZW-013, 14 *pp.* (J. Horváth) 32 #1494

Über Potenzen von verallgemeinerten Bernstein-Operatoren. *Mathematica (Cluj)* 8(31) (1966), 173-180. (R. A. Askey) 35 #632

(with van Ipern, H.) Determination of a class of best constants in the approximation by powers of generalized Bernstein operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 336-352. (F. Perrin) 39 #3132

On some research in linear positive operators in approximation theory. *Nieuw Arch. Wisk.* (3) 18 (1970), 36-60. (J. W. Jerome) 41 #5851

On some linear positive operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 327-337. (D. E. Wulbert) 42 #4931

On the asymptotic approximation with operators of Meyer-König and Zeller. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 428-440. (B. Wood) 43 #2402

Siklósi, Károly

(with Dahlquist, Germund; Gustafson, Sven-Åke) Convergence acceleration from the point of view of linear programming. *Nordisk Tidskr. Informations-Behandling* 5 (1965), 1-16. (Authors' summary) 31 #5317

Siklóssy, Laurent

Generalized means-ends analysis and artificial intelligence. *Information Sci.* 3 (1971), 149-158. (A. L. Zobrist) 44 #3533

Sikonia, W.

The von Neumann converse of Weyl's theorem. *Indiana Univ. Math. J.* 21 (1971/72), 121-124. (S. K. Berberian) 44 #3145

Sikora, B. S.

A boundary-value problem for an elliptic system of first-order equations with high-order derivatives on the boundary. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 1428-1431. (M. Z. v. Krzywoblocki) 31 #6057

The index and normal solvability of a boundary-value problem for an elliptic system of equations of higher order. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 26-30. (R. Carroll) 29 #3745

Sikorski, Roman

On the definition of multi-valued analytic functions. *Colloq. Math.* 8 (1961), 267-269. (Editors) 31 #314

On representations of Lindenbaum algebras. *Prace Mat.* 7 (1962), 97-105. (J. E. Fenstad) 33 #2522

* (with Rasiowa, Helena) The mathematics of metamathematics. Monografie Matematyczne, Tom 41. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1963. 522 *pp.* (G. Kreisel) 29 #1149

Products of generalized algebras and products of realizations. *Colloq. Math.* 10 (1963), 1-13. (C.-C. Chang (Zbl 104, 241)) 33 #2533

* Boolean algebras. Second edition. Ergebnisse der Mathematik und ihrer Grenzgebiete, Neue Folge, Band 25. *Academic Press Inc., New York; Springer-Verlag, Berlin-New York,* 1964. x + 237 *pp.* (R. S. Pierce) 31 #2178

On an analytic set. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 15-16. (R. Engelking) 33 #2784

(with Engelking, R.; Holsztyński, W.) Some examples of Borel sets. *Colloq. Math.* 15 (1966), 271-274. (J. Mycielski) 34 #1198

* Rachunek różniczkowy i całkowy: Funkcje wielu zmiennych. (Polish) [Differential and integral calculus: Functions of several variables] Biblioteka Matematyczna, Tom 28. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1967. 462 *pp.* (S. Mandelbrojt) 35 #4346

Abstract covariant derivative. *Colloq. Math.* 18 (1967), 251-272. (A. Nijenhuis) 36 #5849

(with Znojkiewicz, B.) A proof of the representation theorem for the space of random variables. *Prace Mat.* 11 (1967), 175-178. (Judah Rosenblatt) 36 #3388

* Булевы алгебры. (Russian) [Boolean algebras] Translated from the English by A. S. Miščenko. *Izdat. "Mir", Moscow,* 1969. 375 *pp.* (Editors) 40 #2581

(See also Mazurkiewicz, Stefan, 40 #3487)

* Boolean algebras. Third edition. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 25. *Springer-Verlag New York Inc., New York,* 1969. x + 237 *pp.* (Editors) 39 #4053

* Advanced calculus. Functions of several variables. Monografie Matematyczne, Tom 51. Translated from the Polish. *Państwowe Wydawnictwo Naukowe-Polish Scientific Publishers, Warsaw,* 1969. 460 *pp. (errata insert)* (Editors) 40 #7396

Sikors'kiĭ, Ju. G.

Integration of the nonhomogeneous Bessel equation. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1970, *no.* 12, 121-124. (E. Gerlach) 44 #491

Silaeva, E. A.

(with Hovanskiĭ, G. S.) Nomographic representation of generalized equations of third and fourth nomographic order, and successive linear interpolation formulae in tables with several entries. *Dokl. Akad. Nauk SSSR* 199 (1971), 1253-1256 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1285-1288. (E. Otto) 44 #3525

Silas, Gheorghe

(with Groşanu, I.; Brîndeu, L. N.) Equations with linear operators. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 5(19) (1960), *fasc.* 1-2, 253-257. (Authors' summary) 35 #4246

(with Mangeron, D. I.; Brîndeu, L.) The method of polygonal approximation in the study of systems with nonlinear characteristics. (Russian. Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 1-2, 89-95. (C. de Boor) 35 #3851

(with Klepp, H. J.) Näherungsmethode zum Studium nichtlinearer konservativer Schwingungen. (French and Russian summaries) *Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* 11 (1966), 539-552. (C. C. Conley) 39 #1750

(with Klepp, H. J.) Approximate methods in the study of nonlinear conservative vibrations. (Romanian) *Stud. Cerc. Mec. Apl.* 22 (1966), 767-780. (Editors) 39 #1751

(with Klepp, H.) The polygonal approximation of nonlinear characteristics. (Romanian) *Stud. Cerc. Mec. Apl.* 27 (1968), 899-908. (From the authors' summary) 39 #1752

ilber, Robert

A linear dependence theorem with application to the calculus of variations. *Linear Algebra and Appl.* 3 (1970), 441-450. (J. Casti) 42 #3118

Silberg, P. A.

A class of periodic solutions to the two-dimensional cubic differential equation. *J. Franklin Inst.* 288 (1969), 17-29. (D. Elliott) 41 #8798

Silberg, Paul A.

(with Yildiz, Asim) Natural oscillations of a bounded plasma. *Phys. Fluids* 7 (1964), 96-102. (PA 67 #8756) 32 #3754

Silberger, Allan J.

All algebras of spherical functions defined on the two-by-two general linear group with entries in a locally compact *p*-adic field are commutative. *Proc. Amer. Math. Soc.* 21 (1969), 437-440. (R. A. Gangolli) 38 #5988

(See also Samuel, Pierre, 42 #177)

* PGL_2 over the *p*-adics: its representations, spherical functions, and Fourier analysis. Lecture Notes in Mathematics, Vol. 166. *Springer-Verlag, Berlin-New York,* 1970. vii + 204 *pp.* (M. Hasumi) 44 #2891

ilberger, D. M.

Occurrence of the integer $(2n-2)!/n!(n-1)!$. *Prace Mat.* 13 (1969), 91-96. (I. Niven) 40 #2556

Sileris, V. V.

The solution of a system of equations of elliptic type. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 157-165. (S. Drobot) 36 #3533

ilič, Z. O.

Analytic functions of a discrete argument which admit a physical model. (Ukrainian) *Nauk. Ščoričnik. Meh.-Mat. Fak. Kīvs'k. Unīv.* 1956, 527-528 (1957). (G. Berzsenyi) 42 #4908

Analytic and *p*-analytic functions of a discrete argument which admit a physical model. (Ukrainian. Russian summary) *Nauk. Zap. Kīvs'k. Unīv.* 16 (1957), *vyp.* 16, 239-246. (G. Berzsenyi) 42 #4909

Analytic functions of a discrete argument and their application to the solution of the Neumann problem. (Russian) *Nauč. Dokl. Vysš. Školy Fiz.-Mat. Nauki* 1959, *vyp.* 2, 67-73. (G. Berzsenyi) 42 #4910

Silici, Paul

Une généralisation des théorèmes A et B de Cartan en dimension infinie. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A665-A668. (G. Trautmann) 43 #7666

Silin, I. N.

(with Bystricky, J.; Lehar, F.) Likelihood handling of scattering data with previous experimental information. (Italian and Russian summaries) *Nuovo Cimento A* (11) 1 (1971), 601-618. (P. Caldirola) 43 #8321

Silin, V. P.

(with Klimontovič, Ju. L.) Magnetohydrodynamic equations for non-isothermal plasma without collisions. (Russian) *Problems of Magnetohydrodynamics, II, pp.* 311-319, *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. 31 #6492

(with Ruhadze, A. A.) Method of geometrical optics in the electrodynamics of an inhomogeneous plasma. *Uspehi Fiz. Nauk* 82 (1964), 499-535 *(Russian); translated as Soviet Physics Uspekhi* 7 (1964), 209-229. (P. L. E. Uslenghi) 34 #8730

Weakly damped plasma waves. *Ž. Tehn. Fiz.* 34 (1964), 236-247 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 188-195. (Sylvan Katz) 31 #6626

(with Gorbunov, L. M.) Theory of transport effects in a nonisothermal fully ionized plasma. *Ž. Tehn. Fiz.* 34 (1964), 385-394 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 305-311. (T. J. M. Boyd) 32 #946

Plasma conductivity in strong electric and magnetic fields. *Dokl. Akad. Nauk SSSR* 161 (1965), 328-331 *(Russian); translated as Soviet Physics Dokl.* 10 (1965), 230-233. (Roy R. Johnson) 32 #8933

(with Giergadze, N. P.) On nonlinear fluctuations in plasma with Coulomb interaction. (Russian) *PMFT Ž. Prikl. Meh. i Tehn. Fiz.* 1965, *no.* 3, 3-10. 32 #8927

(See also Balesku, R., 36 #7393)

Siliņa, B.

(with Riekstiņš, E.) Asymptotic expansions of partial sums and remainders for certain power series. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 2 *(Russian), pp.* 241-259. *Izdat. "Zinatne", Riga,* 1966. (L. Berg) 34 #6412

Silinja, B. See Siliņa, B.

Silişteanu, Ion

The leptonic decays of mesons. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Phys.* 16 (1971), *fasc.* 1, 15-19. (P. Achuthan) 44 #3625

Šiljak, Dragoslav

(with Kokotović, P.) Automatic analog solution of algebraic equations and plotting of root loci by generalized Mitrović's method. *IEEE Internat. Convention Record* 1964, *pt.* 1, 47-54. (Authors' summary) 37 #7112

Silk, Joseph

Local irregularities in a Gödel universe. *Astrophys. J.* 143 (1966), 689-699. (A. H. Taub) 33 #5356

Šilkevič, T. P.

(with Čirkov, M. K.) The realizability of probabilistic automata by automata with random inputs. (Russian) *Metody Vyčisl.* 6 (1970), 127-136. (C. Reischer) 44 #6415

Šil'krut, D. I.

A new algorithm for approximate solution of partial differential equations. (Russian) *Problems Theory Control Systems (Russian), pp.* 30-37. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. (W. S. Loud) 35 #5150

On a method of approximate solution of ordinary differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 615-625. (W. S. Loud) 34 #2199

On a method of approximate solution of Volterra type integral equations. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1966, *no.* 4, 107-110. (E. L. Albasiny) 34 #8121

Siller, Harry

On the separability of the Riccati differential equation. *Math. Mag.* 43 (1970), 197-202. (J. S. W. Wong) 42 #6319

Šillerov, A. E.

On the theory of nonholonomic surfaces in three-dimensional projective space. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 196 (1968), 102-113. (A. Urban) 43 #6828

Silli, Carlo

Sulla stabilità dei missili con massa variabile. (English summary) *Boll. Un. Mat. Ital.* (3) 20 (1965), 194-209. (E. Leimanis) 34 #8691

Sillitto, G. P.

Some relations between expectations of order statistics in samples of different sizes. *Biometrika* 51 (1964), 259-262. (S. S. Gupta) 31 #2800

Note on Takeuchi's table of difference sets generating balanced incomplete block designs. *Rev. Inst. Internat. Statist.* 32 (1964), 251. (Editors) 30 #4362

Sills, W. H.

On absolutely continuous functions and the well-bounded operator. *Pacific J. Math.* 17 (1966), 349-366. (J. R. Ringrose) 33 #3108

(with Philipp, S. P.; Shapiro, V. L.) The Abel summability of conjugate multiple Fourier-Stieltjes integrals. *Pacific J. Math.* 36 (1971), 231-238. (G. Sunouchi) 43 #2425

Šil'man, S. V.

Sensitivity analysis of linear dynamical systems with finite parameter variations. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 10 (1967), 1510-1522. (P. Saigrow) 36 #3593

The application of the *z*-transformation to the investigation of linear dynamic systems with periodic coefficients. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 12 (1969), 1645-1656. (K. Magnus) 44 #3739

A certain analytic method in the theory of linear differential equations with periodic coefficients and stationary lags of the argument. I. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1126-1137. (V. M. Popov) 44 #4332

A certain analytic method in the theory of linear differential equations with periodic coefficients and stationary lags of the argument. II. Investigation of the stability of the solutions. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1640-1647. (V. M. Popov) 44 #7089

Šil'nikov, L. P.

A case of the existence of a denumerable set of periodic motions. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 558-561. (C. S. Coleman) 30 #3262

(with Neĭmark, Ju. I.) A condition for the generation of periodic motions. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1261-1264. (C. S. Coleman) 30 #4027

(with Neĭmark, Ju. I.) A case of generation of periodic motions. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 330-340. (A. Langenbach) 34 #1636

Generation of a periodic motion from the trajectory going from the state of equilibrium of the saddle-saddle type into the same state. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 49-52. (R. Reissig) 35 #1890

Existence of a countable set of periodic motions in a four-dimensional space in an extended neighborhood of a saddle-focus. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 54-57. (N. G. Markley) 35 #1872

Existence of a countable set of periodic motions in a neighborhood of a homoclinic curve. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 298-301. (C. S. Coleman) 35 #500.

On a problem of Poincaré-Birkhoff. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 378-397. (V. Drobot) 38 #1322

On the question of the structure of the neighborhood of a homoclinic tube of an invariant torus. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 286-289. (P. Gerl) 40 #2111

The generation of a periodic motion from a trajectory which is doubly asymptotic to a saddle type equilibrium state. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 461-472. (C. S. Coleman) 41 #582

A certain new type of bifurcation of multidimensional dynamic systems. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 59-62. (V. Drobot) 41 #7234

On A. G. Maĭer's papers concerning central motions. (Russian) *Mat. Zametki* 5 (1969), 335-339. (P. Ungar) 39 #5872

On the question of the structure of an extended neighborhood of a structurally stable state of equilibrium of saddle-focus type. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 92-103. (J. Jarník) 41 #3917

Šil'nikova, V. D.

(with Volodin, I. N.; Pomeranec, B. M.) Asymptotic analysis of the distribution of selective correlation coefficients and its statistical applications. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 130 (1970), *kn.* 3, 3-17. (G. Tusnády) 44 #6093

Šilov, G. E.

On the Fourier transform theory of infinitely differentiable, rapidly decreasing functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1961, *no.* 3 (22), 174-176. (A. Devinatz) 29 #5055

Correctly posed problems for linear constant coefficient partial differential equations in the real half-space. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 403-404. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #475

* (with Gel'fand, I. M.) Verallgemeinerte Funktionen (Distributionen). III. Einige Fragen zur Theorie der Differentialgleichungen. Hochschulbücher für Mathematik, Band 49. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1964. 195 *pp.* (H. Federer) 29 #2643

* (with Gel'fand, I. M.) Generalized functions. Vol. I: Properties and operations. Translated by Eugene Saletan. *Academic Press, New York-London,* 1964. xviii + 423 *pp.* (Editors) 29 #3869

* (with Gel'fand, I. M.; Raĭkov, D. A.) Kommutative normierte Algebren. Übersetzung und wissenschaftliche Redaktion von Helmut Boseck. Mathematische Forschungsberichte, XIII. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1964. xi + 332 *pp.* (R. Arens) 29 #6327

* (with Gurevič, B. L.) Интеграл, мера и производная. (Russian [Integral, measure and derivative] *Izdat. "Nauka", Moscow,* 1964. 211 *pp.* (L. C. Young) 30 #3188

* (with Gel'fand, I. M.; Raĭkov, D. A.) Commutative normed rings. Translated from the Russian, with a supplementary chapter. *Chelsea Publishing Co., New York,* 1964. 306 *pp.* (Editors) 34 #4940

Well-posed boundary-value problems in a half-space for linear partial differential equations with constant coefficients. (Russia *Uspehi Mat. Nauk* 19 (1964), *no.* 3 (117), 3-52. (A. Friedman) 29 #4988

(with Višik, M. I.; Kolmogorov, A. N.; Fomin, S. V.) Israil' Moiseevič Gel'fand. (On his fiftieth birthday). (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 3 (117), 187-205. (1 *plate*) (Editors) 31 #20

* (with Gel'fand, I. M.) Les distributions. Tome 3. Théorie des équations différentielles. Traduit par Serge Vasilach. *Dunod, Paris,* 1965. xii + 236 *pp.* (Editors) 31 #6001

* Mathematical analysis. A spacial course. Translated by J. D. Davis. English translation edited by D. A. R. Wallace. *Pergamon Press, Oxford-New York-Paris,* 1965. xii + 481 *pp.* (Edito 32 #2519

* Математический анализ: Второй специальный курс. (Russian) [Mathematical analysis: Second special course] *Izdat. "Nauka", Moscow,* 1965. 327 *pp.* (A. Kufner) 36 #2943

* (with Gurevič, B. L.) Integral, measure and derivative: A unified approach. Revised English edition, translated from the Russian and edited by Richard A. Silverman. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1966. xiv + 233 *pp.* (Editors) 33 #2781

Measures in linear spaces. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 46-48. (R. G. Laha) 35 #1746

On the theory of generalized functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 5 (54), 124-128. (C. S. Hönig) 34 #6526

(with Fan Dyk Tin') Quadratic functionals in a space with Gaussian measure. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 2 (128), 226-229. (G. Biriuk) 33 #2789; erratum, 43, p. 1695

Letter to the editor: On locally analytic functions. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 177-182. (R. Arens) 36 #1696

* (with Gel'fand, I. M.) Generalized functions. Vol. 3: Theory of differential equations. Translated from the Russian by Meinhard E. Mayer. *Academic Press, New York-London,* 1967. x + 222 *pp.* (Editors) 36 #506

* (with Gurevič, B. L.) Интеграл, мера и производная. Общая теория. (Russian) [Integral, measure and derivative. General theory] Second revised edition. *Izdat. "Nauka", Moscow,* 1967. 219 *pp.* (Editors) 36 #2765

(See also Lévy, Paul, 36 #6892)

* (with Fan Dyk Tin') Интеграл, мера и производная на линейных пространствах. (Russian) [Integral, measure and derivative on linear spaces] With a supplement by M. G. Sonis. *Izdat. "Nauka", Moscow,* 1967. 192 *pp.* (P. Saworotnow) 37 #1554

On certain questions of analysis in a Hilbert space. I. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 81-90. (E. Gerlach) 35 #4770

On certain questions of analysis in Hilbert space. II. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 166-186 (1968). (E. Gerlach) 39 #787

On certain questions of analysis in Hilbert space. III. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 161-168. (E. Gerlach) 38 #573

* (with Gel'fand, I. M.) Generalized functions. Vol. 2. Spaces of fundamental and generalized functions. Translated from the Russian by Morris D. Friedman, Amiel Feinstein and Christian P. Peltzer. *Academic Press, New York-London,* 1968. x + 261 *pp.* (Editors) 37 #5693

* Generalized functions and partial differential equations. Authorized English edition revised by the author. Translated and edited by Bernard D. Seckler. *Gordon and Breach, Science Publishers, Inc., New York-London-Paris,* 1968. xii + 345 *pp.* (Editors) 37 #5694

(with Maĭkov, E. V.) The matrix of an automorphism of a torus of countable dimension. (Russian) *Mat. Zametki* 3 (1968), 285-289. (G. Neubauer) 37 #4204

(with Bogoljubov, N. N.; Gohberg, I. C.) Mark Grigor'evič Kreĭn: On his sixtieth birthday. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 197-214. (1 *plate*) (Editors) 37 #5077

(See also Mathematics in the USSR 1958-1967, 40 #4048)

* (with Gel'fand, I. M.) Verallgemeinerte Funktionen (Distributionen). II: Lineare topologische Räume. Räume von Grundfunktionen und verallgemeinerten Funktionen. Übersetzung aus dem Russischen von Gerhard Tesch. Zweite Auflage. Hochschulbücher für Mathematik, Band 48. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. xii + 216 *pp.* (Editors) 40 #6258

* Математический анализ. Конечномерные линейные пространства. (Russian) [Mathematical analysis. Finite-dimensional linear spaces] *Izdat. "Nauka", Moscow,* 1969. 432 *pp.* (L. Mirsky) 44 #6714

* Математический анализ: Функции одного переменного. Части 1-2. (Russian) [Mathematical analysis: Functions of one variable. Parts 1-2] *Izdat. "Nauka", Moscow,* 1969. 528 *pp.* (L. Mirsky 43 #7275

(with Nemirovskiĭ, A. S.) The axiomatic description of Laplace's operator for functions on Hilbert space. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 3, 79-85. (J. Peetre) 40 #6303

(with Golovin, O. N.; Žislin, G. M.; Kronrod, A. S.; Landis, E. M.; Ljusternik, L. A.) Aleksandr Grigor'evič Sigalov. Obituary. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 5 (155), 227-234. (1 *plate*) (Editors) 44 #2557

* Linear algebra. Revised English edition. Translated from the Russian and edited by Richard A. Silverman. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1971. xi + 387 *pp.* (Editors) 43 #1999

ilov, V. E.

Solution of the Cauchy problem with guaranteed accuracy. (Russian) *Computing Methods and Programming, VIII (Russian), pp.* 200-215. *Izdat. Moskov. Univ., Moscow,* 1967. 43 #8244

ilova, G. D.

Expansions which are similar to Mittag-Leffler expansions. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 199-207. (K.-B. Gundlach) 40 #5554

Boundary functions for a certain class of functions. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 78 (1969), 105-108. (C. Tanaka) 44 #1811

ilova, G. I.

The number of periodic solutions of the second kind to the differential equation $\phi - f_1(\phi)\phi - f_0(\phi) = 0$. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1682-1691. (K. W. Chang) 36 #5447

e Silva, C. Nevin. See De Silva, C. Nevin.

ilva, Celiar. See Silva-Rehermann, Celiar.

a Silva, Eliane Cordeiro. See Cordeiro da Silva, Eliane.

a Silva, Marcelo R. M. Crespo. See Crespo da Silva, Marcelo R. M.

ilva Oliveira, J.

(with Campos Ferreira, J.) Problèmes aux conditions initiales, dans la théorie des distributions. *Univ. Lisboa Revista Fac. Ci. A* (2) 10 (1963), 91-130. (D. Laugwitz) 29 #6304

ilva R., Celiar. See Silva-Rehermann, Celiar.

ilva-Rehermann, Celiar

A generalization of theorems on Baire functions of class 1. (Spanish. English and Russian summaries) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 1, *fasc.* 1, 1-14. (S. Marcus) 32 #4219

An inequality and an equality between norms. (Spanish. English and Russian summaries) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 1, *fasc.* 1, 26-28. (J. Nieto) 31 #3836

On differentiability in Banach spaces. (Spanish. English summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 3, *fasc.* 2-3, 47-50. (Author's summary) 31 #3879

Note on the union of a locally finite family of closed sets. (Spanish. English summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1,(1963/64), *no.* 3, *fasc.* 2-3, 63-65. 31 #2703

(with Matilla, H.) Note on an extension to an inequality and an equality between norms. (Spanish. English summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 3, *fasc.* 2-3, 66-68. (J. Nieto) 31 #3837

Liaison spaces and compact extensions. (Spanish) *Univ. Habana* 33 (1969), 111-117. (W. M. Fleischman) 42 #1060

Some properties of monotone operators in Hilbert spaces. (Spanish. English summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1, *no.* 4, *fasc.* 4/5, 33-36 (1966). (B. Fishel) 35 #820

(with Matilla, H.) Generalization of an inequality between norms. (Spanish) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1, *no.* 4, *fasc.* 4/5, 39-40 (1966). (R. E. L. Turner) 35 #1621

Note on the intersection of a family of neighborhoods. (Spanish. French summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1, *no.* 4, *fasc.* 4/5, 45-46 (1966). (Author's summary) 34 #8365

Sur une généralisation de la propriété de Darboux. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos.,* 1966*), pp.* 330-331. *Academia, Prague,* 1967. (D. W. Hall) 38 #685

Sur l'invariance de la connexité. *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 285-290. *Savez Drustava Mat. Fiz. i Astronom., Belgrade,* 1969. (R. Bennett) 43 #6890

ilven, Saul

Application of operational methods to the analysis of the motion of rigid bodies. *J. Mathematical Phys.* 5 (1964), 1424-1426. (H. Bremmer) 29 #5431

Errata: Application of operational methods to the analysis of uniform plasmas. *J. Mathematical Phys.* 6 (1965), 1354. (Editor) 31 #5614

ilver, Edward A.

Bayesian modelling of a non-stationary Poisson process. (French summary) *INFOR—Canad. J. Operational Res. and Information Processing* 9 (1971), 32-45. (J. N. K. Rao) 44 #3453

(with Ho, Chung-mei; Deemer, Robert L.) Cost-minimizing inventory control of items having a special type of erratic demand pattern. (French summary) *INFOR—Canad. J. Operational Res. and Information Processing* 9 (1971), 198-219. (M. J. Beckmann) 44 #7960

Silver, Jack H.

A large cardinal in the constructible universe. *Fund. Math.* 69 (1970), 93-100. (N. C. A. da Costa) 43 #43

The independence of Kurepa's conjucture and two-cardinal conjectures in model theory. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.,* 1967*), pp.* 383-390. *Amer. Math. Soc., Providence, R. I.,* 1971. (J. L. Bell) 43 #3112

The consistency of the GCH with the existence of a measurable cardinal. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.,* 1967*), pp.* 391-395. *Amer. Math. Soc., Providence, R. I.,* 1971. (A. Lévy) 43 #4663

Silver, L.

Noncommutative localizations and applications. *J. Algebra* 7 (1967), 44-76. (E. A. Walker) 36 #205

Tame orders, tame ramification and Galois cohomology. *Illinois J. Math.* 12 (1968), 7-34. (S. A. Amitsur) 39 #1446

Silver, Roland

The group of automorphisms of the game of 3-dimensional ticktacktoe. *Amer. Math. Monthly* 74 (1967), 247-254. (H. W. Kuhn) 37 #2534

Silverman, Edward

A problem of least area. *Pacific J. Math.* 14 (1964), 309-331. (J. H. Michael) 30 #1229

Geodesics and Lebesgue area. *Proc. Amer. Math. Soc.* 15 (1964), 775-780. (W. P. Ziemer) 29 #3611

Simple areas. *Pacific J. Math.* 15 (1965), 299-303. (J. H. Michael) 31 #1584

Kirzbraun's theorem and Kolmogorov's principle. *Proc. Amer. Math. Soc.* 17 (1966), 166-169. (W. P. Ziemer) 32 #4246

(with Greenspan, Donald) Approximate solution of the exterior Dirichlet problem and the calculation of electrostatic capacity. *Riv. Mat. Univ. Parma* (2) 7 (1966), 305-314. (P. Laasonen) 38 #1843

Equicontinuity and n-length. *Proc. Amer. Math. Soc.* 20 (1969), 483-486. (G. Freilich) 38 #6000

A weak projection of C onto a Euclidean subspace. *Trans. Amer. Math. Soc.* 136 (1969), 381-390. (W. P. Ziemer) 38 #2278

A Minkowski area having no convex extension. *Michigan Math. J.* 18 (1971), 231-233. (K. Strubecker) 44 #2141

Silverman, Gerald

Rearrangement invariant Köthe spaces. *Math. Ann.* 189 (1970), 222-234. (W. A. J. Luxemburg) 42 #3559

Note on Köthe spaces. *Math. Ann.* 193 (1971), 109-113. (W. A. J. Luxemburg) 44 #3106

Silverman, J. N.

(with van Leuven, J. C.) A quantum mechanical curvature theorem. *Chem. Phys. Lett.* 7 (1970), 37-42. (A. C. Hurley) 42 #5548

Silverman, Leonard M.

(with Meadows, H. E.) Controllability and time-variable unilateral networks. *IEEE Trans. Circuit Theory* CT-12 (1965), 308-314. (Authors' summary) 39 #8013

(with Meadows, H. E.) Controllability and observability in time-variable linear systems. *SIAM J. Control* 5 (1967), 64-73. (Leonard Weiss) 34 #8851

Properties and application of inverse systems. *IEEE Trans. Automatic Control* AC-13 (1968), 436-437. (B. J. Leon) 38 #5487

(with Haines, Leonard H.) Internal and external stability of linear systems. *J. Math. Anal. Appl.* 21 (1968), 277-286. (Leonard Weiss) 36 #6717

(with Anderson, B. D. O.) Controllability, observability and stability of linear systems. *SIAM J. Control* 6 (1968), 121-130. (O. Gürel) 38 #1374

Asymptotic controllability. *IEEE Trans. Automatic Control* AC-14 (1969), 78-80. (Author's summary) 40 #3940

Inversion of multivariable linear systems. *IEEE Trans. Automatic Control* AC-14 (1969), 270-276. (R. E. Kalman) 42 #2828

(with Meadows, H. E.) Equivalent realizations of linear systems. *SIAM J. Appl. Math.* 17 (1969), 393-408. (S. Leela) 40 #1166

Decoupling with state feedback and precompensation. *IEEE Trans. Automatic Control* AC-15 (1970), 487-489. (J. Willems) 44 #1466

(with Bucy, Richard S.; Rappaport, David) Correlated noise filtering and invariant directions for the Riccati equation. *IEEE Trans. Automatic Control* AC-15 (1970), 535-540. (Authors' summary) 43 #1720

(with Dewilde, Patrick; Newcomb, R. W.) A passive synthesis for time-invariant transfer functions. *IEEE Trans. Circuit Theory* CT-17 (1970), 333-338. (Authors' summary) 41 #8059

(with Bucy, R. S.) Generalizations of a theorem of Doležal. *Math. Systems Theory* 4 (1970), 334-339. (V. K. Balakrishnan) 43 #2000

(with Rappaport, David) Structure and stability of discrete-time optimal systems. *IEEE Trans. Automatic Control* AC-16 (1971), 227-233. (R. Liu) 44 #8006

Silverman, Richard A.

* Introductory complex analysis. Based, in part, on material by A. I. Markushevich. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1967. xi + 372 *pp.* (E. Hille) 35 #1760

(See also Markuševič, A. I., 35 #6799; Rozanov, Ju. A., 39 #4881; Kolmogorov, A. N.; Fomin, S. V., 42 #1954; and Šilov, G. E., 43 #1999)

Silverman, Robert Jerome

(with Balomenos, Richard H.; Bonnice, William E.) Extensions of Sylvester's theorem. *Canad. Math. Bull.* 9 (1966), 1-14. (H. S. M. Coxeter) 33 #6477

(with Maneri, Carl) A vector-space packing problem. *J. Algebra* 4 (1966), 321-330. (H. Minc) 36 #63

(with Bonnice, William E.) The Hahn-Banach theorem for finite dimensional spaces. *Trans. Amer. Math. Soc.* 121 (1966), 210-222. (Ti Yen) 32 #2879

(with Frank, Peter) Remarks on detection problems. *Amer. Math. Monthly* 74 (1967), 171-173. (H. Hanani) 35 #2757

(with Bonnice, W. E.) The Hahn-Banach extension and the least upper bound properties are equivalent. *Proc. Amer. Math. Soc.* 18 (1967), 843-849. (G. J. O. Jameson) 35 #5895

(with Maneri, Carl) A combinatorial problem with applications to geometry. *J. Combinatorial Theory Ser. A* 11 (1971), 118-121. (L. D. Baumert) 43 #4699

Silverman, S.

(with Mineka, J.) A local limit theorem and recurrence conditions for sums of independent non-lattice random variables. *Ann. Math. Statist.* 41 (1970), 592-600. (G. K. Eagleson) 41 #1103

Silverstein, M. L.

A new approach to local times. *J. Math. Mech.* 17 (1967/68), 1023-1054. (N. C. Jain) 37 #2321

Markov processes with creation of particles. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 235-257. (D. W. Stroock) 37 #3660

Continuous state branching semigroups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 96-112. (D. J. Daley) 42 #1228

(with Burkholder, D. L.; Gundy, R. F.) A maximal function characterization of the class H^p. *Trans. Amer. Math. Soc.* 157 (1971), 137-153. (S. Fisher) 43 #527

Silverstein, Martin R.

(with Elliott, Joanne) On boundary conditions for symmetric submarkovian resolvents. *Bull. Amer. Math. Soc.* 76 (1970), 752-757. (G. Schay) 42 #1209

Silverstone, Harris J.

(with Handy, Nicholas C.; Marron, Michael T.). Long-range behavior of Hartree-Fock orbitals. *Phys. Rev.* (2) 180 (1969), 45-48. (Authors' summary) 39 #2421

Silvert, William

(with Cooper, Leon N.) Theory of nonhomogeneous superconductors. *Phys. Rev.* (2) 141 (1966), 336-345. (N. R. Werthamer) 33 #1094

Silvester, P.

Symmetric quadrature formulae for simplexes. *Math. Comp.* 24 (1970), 95-100. (Author's summary) 41 #2930

Sil′vestrov, D. S.

A generalization of Pólya's theorem. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 906-909. (G. E. Denzel) 39 #7677

Asymptotic behavior of the time of attainment for sums of random values controlled by a regular semi-Markov process. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 949-951. (I. Cuculescu) 41 #2749

Limit theorems for a non-recurrent walk connected with a Markov chain. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 790-804. (E. Seneta) 40 #3619

Limit theorems for functionals of a process with piece-wise constant sums of random variables determined on a semi-Markov process with a finite set of states. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1036-1038. (W. Hoeffding) 42 #8547

Limit distributions for a random walk on a line that is connected in a Markov chain. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 326-329, 382. (A. D. Wentzell (Ventcel′)) 43 #6987

Limit theorems for a discrete random walk on the half-line that is controlled by a Markov chain. I. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist.* 1970, *vyp.* 1, 193-204. (L. A. Shepp) 43 #1283

Limit theorems for a continuous walk on the half-line that is controlled by a two-state Markov process in a triangular scheme. I. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist.* 1970, *vyp.* 1, 205-215. (L. A. Shepp) 43 #1284

Limit theorems for a discrete random walk on the half-line that is controlled by a Markov chain. II. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 158-166. (L. A. Shepp) 43 #8129a

Limit theorems for a continuous walk on the half-line that is controlled by a two-state Markov process in a triangular scheme. II. (Russian. English summary) *Teor. Verojatnost. i Mat. Stati. Vyp.* 2 (1970), 167-171. (L. A. Shepp) 43 #8129b

Limit theorems for semi-Markov processes and their applications. I, II. (Russian. English summaries) *Teor. Verojatnost. Mat. Statist. Vyp.* 3 (1970), 155-172; *ibid. Vyp.* 3 (1970), 173-1 (From the author's introduction) 44 #2282

Two limit theorems for a certain type of random walk on the line. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1971, 37-39, 93. (E. Seneta) 44 #6051

Uniform estimates of the rate of convergence for sums of ra dom variables that are defined on a finite homogeneous Markov ch with absorption. (Russian. English summary) *Teor. Verojatnost. Mat. Statist. Vyp.* 5 (1971), 116-127. (E. Seneta) 44 #7652

Silvey, Samuel D.

On a measure of association. *Ann. Math. Statist.* 35 (1964) 1157-1166. (A. Rényi) 29 #2839

(with Ali, S. M.) Association between random variables and the dispersion of a Radon-Nikodým derivative. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 100-107. (H. E. Reinhardt) 32 #8368 (E

(with Ali, S. M.) A further result on the relevance of the dispersion of a Radon-Nikodým derivative to the problem of measu ing association. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 108-11 (H. E. Reinhardt) 32 #8369

(with Ali, S. M.) Corrigenda: Association between random variables and the dispersion of a Radon-Nikodým derivative. *J. Statist. Soc. Ser. B* 27 (1965), 533. (Editors) 33 #3322

(with Ali, S. M.) A general class of coefficients of divergence of one distribution from another. *J. Roy. Statist. Soc. S B* 28 (1966), 131-142. (S. Kullback) 33 #4963

(with Laycock, P. J.) Optimal designs in regression probler with a general convex loss function. *Biometrika* 55 (1968), 53-6 (J. Kiefer) 37 #1039

Multicollinearity and imprecise estimation. *J. Roy. Statis Soc. Ser. B* 31 (1969), 539-552. (H. Toutenburg) 42 #7007

(with Covey-Crump. P. A. K.) Optimal regression designs wi previous observations. *Biometrika* 57 (1970), 551-566. (Authors summary) 43 #1343

Sim, Soon Kiong

(with Teh, Hoon Heng) Three simple theorems of graphs. *J. Nanyang Univ.* 1 (1967), 309-323. (Editors) 38 #1020

Simacova, Elenora. See Simakova, Eleonora.

Simakov, L. I.

The solution of the congruence $a^x \equiv x^b \pmod{p}$, where $(a;p) =$ and p is an odd prime. (Russian) *Trudy Naučn. Ob″ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal′n. Vostok.* 5 (1965), 138-149. (J. Roberts) 42 #3018

Simakova, Eleonora

Differential games. *Avtomat. i Telemeh.* 1966, *no.* 11, 161-178 *(Russian. English summary); translated as Automat. Remote Co trol* 27 (1966), 1980-1998 (1967). (Editors) 35 #2643

Šimanov, S. N.

On a theory of linear differential equations with aftereffec (Russian) *Differencial′nye Uravnenija* 1 (1965), 102-116. (K. R. Meyer) 32 #8190

(with Markušin, E. M.) On convergence of the optimal contr of a countable system of differential equations. (Russian) *Diffe encial′nye Uravnenija* 2 (1966), 314-323. (C. Olech) 35 #3192

(with Prokop′ev, V. P.) On stability in the critical case c a double zero root for systems with an aftereffect. (Russian) *Differencial′nye Uravnenija* 2 (1966), 453-462. (Z. Nehari) 34 #4641

(with Markušin, E. M.) Approximate solution of the problem of an analytic construction of a regulator for an equation with retardation. (Russian) *Differencial′nye Uravnenija* 2 (1966), 101 1026. (Marko Švec) 34 #456

(with Grišakov, V. I.) The existence of random periodic con ditions for quasilinear stochastic differential equations. I. (Ru sian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 5 (60), 13-2 (A. Moro) 35 #3183

(with Konovalov, Ju. P.) Periodic solutions of quasi-harmon systems with retardation. (Russian) *Izv. Vysš. Učebn. Zaved. Mat matika* 1967, *no.* 6 (61), 59-67. (G. Maess) 35 #3189

(with Grišakov, V. I.) The existence of random periodic regimes for quasilinear stochastic differential equations. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 12 (67), 20-26. (A. Moro) 36 #6020

(with Coĭ, K. M.) Periodic oscillations of quasilinear auto omous systems with retardation. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 10 (1967), 345-352. (R. F. Matla 35 #3188

(with Coĭ, K. M.) The stability of periodic motions of auto omous systems with lag. (Russian) *Mat. Zametki* 2 (1967), 561-568 (M. Urabe) 36 #6715

Certain questions of the theory of oscillations of systems with lag. (Russian) *Fifth Math. Summer School (Uzhgorod,* 1967*): The Theory of Ordinary Differential Equations and Nonlinear Oscil lations (Russian), pp.* 473-549. *Akad. Nauk Ukrain. SSR Inst. Mat. Kiev,* 1968. (J. M. Skowroński) 41 #5745

(with Grišakov, V. I.) On the question of the existence of random periodic conditions for linear stochastic difference and differential systems. (Russian) *Differencial′nye Uravnenija* 4 (1968), 675-680. (W. H. Fleming) 38 #3537 (with Kleĭmenov, A. F.) On the question of the existence and the construction of periodic solutions of systems with lag which are close to Ljapunov systems. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1199-1211. (C. Corduneanu) 37 #5501

(with Lebedeva, È. B.) On the theory of linear equations with periodic coefficients, close to constants, and with lag. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1598-1607. (C. V. Coffman) 41 #3941

(with Lebedeva, È. B.) The stability of quasiharmonic systems with retardation slowly changing in the time. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 12 (79), 53-61. (A. Halanay) 40 #1676

The construction of asymptotic solutions in the case of single-frequency oscillations in a quasilinear autonomous system with time lag. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 814-825. (R. F. Datko) 39 #7247

(with Kleĭmenov, A. F.) Periodic solutions of systems with lag closely related to Liapunov systems. *Prikl. Mat. Meh.* 33 (1969), 403-412 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 392-401. (D. H. Chyung) 40 #7598

(with Judaev, G. S.) Certain tests of the stability of the solution of countable systems of differential equations with time lag. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 4, 120-125. (Tadeusz Dłotko) 44 #5589

(with Judaev, G. S.) Certain questions on the stability of differential equations with aftereffect. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1562-1566. (L. J. Grimm) 44 #583

nary, M. A.

(with Ragab, F. M.) Integrals involving products of generalized Whittaker functions. *Proc. Cambridge Philos. Soc.* 61 (1965), 429-432. (L. J. Slater) 30 #4000

(with Ragab, F. M.) Integration of *E*-functions and related series. *Monatsh. Math.* 70 (1966), 58-63. (A. Erdélyi) 33 #312

(with Ragab, F. M.) Integrals involving *E*-functions. *Proc. Glasgow Math. Assoc.* 7, 174-177 (1966). (R. K. Saxena) 33 #7588

Integral representations of the modified Bessel function of the second kind. *J. Natur. Sci. and Math.* 8 (1968), 133-139. (M. Nassif) 38 #1297

(with Ragab, F. M.) Definite integrals involving Whittaker functions. *Proc. Cambridge Philos. Soc.* 64 (1968), 1033-1039. (F. W. J. Olver) 37 #6501

nauti, Kimiko

On *N*-high subgroups of Abelian *p*-groups. *Comment. Math. Univ. St. Paul.* 16 (1967/68), 1-3. (F. L. Hardy) 36 #5219

On Abelian groups in which every neat subgroup is a pure subgroup. *Comment. Math. Univ. St. Paul.* 17 (1969), 105-110. (P. Gräbe) 39 #6981

nauti, Takakazu

A note on the construction of ordinal numbers. *Comment. Math. Univ. St. Paul.* 12 (1964), 37-39. (D. Monk) 29 #1152

mboan, Gabriel

Sum functions. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 51-55. (S. Rudeanu) 31 #777

(with Onicescu, O.; Theodorescu, R.) A remark on Weierstrass' theorem. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 255-257. (Authors' summary) 30 #2273

Vectorial measures. *Rev. Math. Pures Appl. (Bucharest)* 7 (1962), 383-415. (J. H. Michael) 32 #1320

(with Theodorescu, R.) Statistical spaces. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 699-703. (K. Krickeberg) 31 #1691

(with Theodorescu, Radu) On Boolean σ-algebras with measure. (Romanian) *Seminar on Sum-Functions, conducted by O. Onicescu, pp.* 82-84. *Editura Acad. R. P. Romîne, Bucharest,* 1963. (N. Dinculeanu) 32 #1316

Sum-functions with values in a locally convex space. (Romanian) *Seminar on Sum-Functions, conducted by O. Onicescu, pp.* 85-90. *Editura Acad. R. P. Romîne, Bucharest,* 1963. (S. Rudeanu) 32 #1753

(with Onicescu, O.; Theodorescu, R.) On the Weierstrass approximation theorem. *C. R. Acad. Bulgare Sci.* 17 (1964), 789-792. (L. de Branges) 29 #5091

* (with Reischer, Corina; Theodorescu, R.) Teoria probabilităţilor. (Romanian) [Theory of probability] *Editura Didactică şi Pedagogică, Bucharest,* 1967. 338 *pp.* (H. Cohn) 37 #3605

(with Theodorescu, Radu) Sur la liaison entre la fonction de concentration, la concentration, l'énergie informationnelle et l'entropie. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A743-A744. (H. D. Block) 37 #2551

(with Theodorescu, Radu) Sur la liaison entre la fonction de concentration, la concentration, l'énergie informationnelle et l'entropie. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1373-1375. (S. Kullback) 39 #2528

Generalized Gaussian processes. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1455-1458. (M. Iosifescu) 40 #6633

* Teoria lui Galois. (Romanian) [Galois theory] *Editura Tehnică, Bucharest,* 1968. 118 *pp.* (G. Ferrero (Zbl 174, 72)) 44 #6654

(with Theodorescu, Radu) On the notion of concentration. I. (German and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 235-255. (C. G. Esseen) 39 #7654

(with Theodorescu, R.) On the concentration function. (Hungarian) *Mat. Lapok* 19 (1968), 13-32. (E. Lukacs) 39 #2196

Šimek, Antonín

(with Kamasová, Hana) A method of inversion of a partitioned matrix. (Czech. Loose English summary) *Apl. Mat.* 14 (1969), 105-114. (H. Schwerdtfeger) 38 #5800

(with Kamasová, Hana) Inversion of quasi-triangular matrices. (Czech summary) *Apl. Mat.* 15 (1970), 146-148. (A. R. Amir-Moéz) 40 #5629

Šimel'fenig, O. V.

* (with Gohman, A. V.; Spivak, M. A.; Žitomirskiĭ, G. I.; Rozen, V. V.; Ryžkov, A. G.; Saliĭ, V. N.) Сборник задач по математической логике и алгебре множеств. (Russian) [Collection of problems in mathematical logic and algebra of sets] *Izdat. Saratov. Univ., Saratov,* 1965. 87 *pp.* (E. Mendelson) 34 #1196

Theory of extensions of generalized heaps and its application. (Russian) *Certain Appl. Theory Binary Relations (Russian), pp.* 10-16. *Izdat. Saratov. Univ., Saratov,* 1966. 33 #3971

On the theory of semiheaps and generalized heaps. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 195-196. *Tartu. Gos. Univ., Tartu,* 1966. (S. Rudeanu) 34 #1435

Extension of generalized heaps. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 5 (54), 129-141. (B. M. Schein (Šaĭn)) 34 #2754

The theory of crossed semi-heaps. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 8 (63), 100-105. (J. Jakubík) 35 #5541

The representation of semigroups by partial transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 12 (79), 117-121. (J. Bosák) 40 #2775

(with Lavrov, B. N.) The class of maximal generalized groups. (Russian) *First All-Union Symposium on the Theory of Semigroups (Russian), pp.* 90-93. *Ural. Gos. Univ., Sverdlovsk,* 1969. (J. Bosák) 41 #370

Certain conditions for the extension of generalized heaps. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 3 (82), 104-106. (B. M. Schein (Šaĭn)) 40 #262

On the theory of the extension of generalized heaps and generalized groups. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 215-218. (J. Bosák) 44 #2871

Classification of extensions of generalized heaps and generalized groups. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 219-224. (J. Bosák) 44 #2872

An application of the algebra of polyrelatives to game theory. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 855-879. (J. R. Isbell) 44 #5125

Siméon, Jean

Généralisation d'un théorème de composition de S. Mandelbrojt et applications. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1233-A1236. (M. Nassif) 39 #2954

(with Blambert, Maurice) Extensions d'une propriété de S. Mandelbrojt et ensemble irrégulier d'une famille de "Faltung" au sens Hadamard. *An. Fac. Ci. Univ. Porto* 52 (1969), 117-149. (W. F. Newns) 42 #6201

(with Blambert, Maurice) Régularité et suprarégularité pour une famille de germes dirichlétiens (par rapport à un support de référence). (English summary) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 1, 239-274, xi. (W. F. Newns) 40 #5833

Régularité et suprarégularité d'une famille de germes dirichlétiens. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A32-A35. (W. F. Newns) 39 #4365

Simeonov, S. V.

Some methods of solution of nonlinear problems of the mechanics of deformable solids. *Prikl. Mat. Meh.* 28 (1964), 418-429 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 516-529. (G. W. Hedstrom) 31 #5382

Notes on the article: "Some methods of solution of nonlinear problems of the mechanics of deformable solids". *Prikl. Mat. Meh.* 28 (1964), 1121-1123 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 1346-1348 (1965). (G. W. Hedstrom) 34 #7003

The solution of a system of nonlinear equations by means of successive approximations. (Bulgarian) *Godišnik Inž.-Stroitel. Inst.* 18 (1966), *kn.* 1, 29-33 (1967). *(loose errata)* (From the author's introduction) 41 #7836

Simeunović, D. M.

Remarks on the zeros of a class of entire functions. (Serbian. French summary) *Acad. Serbe Sci. Arts Glas* 260 (1965), 75-83. (Author's summary) 33 #281

Sur les zéros du polynôme $\sum_{v=0}^{n} z^{v}/v!;n = 1,2,\cdots$. *Mat. Vesnik* 2(17) (1965), 259-261. (O. Shisha) 34 #4459

Sur les limites des modules des zéros des polynômes. *Mat. Vesnik* 4(19) (1967), 293-298. (E. Frank) 37 #383

Les limites des modules des zéros des polynômes et des séries de Taylor. *Mat. Vesnik* 4(19) (1967), 299-303. (E. Frank) 36 #6594

Sur le cercle qui contient au moins un zéro d'un polynôme et les questions qui s'y rattachent. *Mat. Vesnik* 5(20) (1968), 339-342. (E. Frank) 38 #4654

Sur les zéros des polynômes de composition. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 103-111. (H. J. Biesterfeldt, Jr.) 43 #2196

Simha, P. S.

* (with Krishna Iyer, P. V.) Tables of bivariate random normal deviates. *Defence Science Laboratory, Delhi, n.d.* iii + 120 *pp.* 34 #8527

(with Kshirsagar, A. M.) Analysis of a balanced incomplete two-way design. *Ann. Inst. Statist. Math.* 20 (1968), 469-476. (H. L. Seal) 38 #3980

Simha, R. R.

* (with Narasimhan, M. S.; Narasimhan, Raghavan; Seshadri, C. S.) Riemann surfaces. Mathematical Pamphlets, 1. *Tata Institute of Fundamental Research, Bombay,* 1963. v + 71 *pp. (loose errata)* (Preface) 41 #3750

(with Narasimhan, M. S.) Manifolds with ample canonical class. *Invent. Math.* 5 (1968), 120-128. (W. Kaup) 38 #5253

Über die kritischen Werte gewisser holomorpher Abbildungen. (English summary) *Manuscripta Math.* 3 (1970), 97-104. (J. Kajiwara) 41 #8711

Simionescu, Claudia

On sets of distances in total Euclidean space. (Romanian. Russian and French summaries) *Lucrăr. Ști. Inst. Politehn. Brașov Fac. Mec.* 5 (1962), 53-59. (Author's summary) 32 #1581

Remark on Stieltjes-Riemann integrability with respect to a function not of bounded variation. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 1043-1046. (Author's summary) 30 #4902

(with Simionescu, Corneliu) On point transformations of the first type between projective planes with constant square tensor Π_{ij}. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 641-644. (G. Vranceanu) 35 #6089

On the theorem of Vitali. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 147-153. (Chr. Y. Pauc) 39 #4353

Simionescu, Corneliu

Riemannian manifolds in geodesic correspondence defined on compact support. (Romanian. French and Russian summaries) *Lucrăr. Ști. Inst. Politehn. Brașov Fac. Mec.* 5 (1962), 15-19. (G. Vrănceanu) 32 #3007

The determination of the invariants of nonholonomic spaces $V_5$3 of class four. (Romanian. Russian and French summaries) *Lucrăr Ști. Inst. Politehn. Brașov Fac. Mec.* 5 (1962), 21-29. (Author's summary) 32 #1635

On isothermic point transformations. (Romanian. French, German and Russian summaries) *Lucrăr. Ști. Inst. Politehn. Brașov* 7 (1965), 21-24. (Author's summary) 33 #6485

(with Simionescu, Claudia) On point transformations of the first type between projective planes with constant square tensor Π_{ij}. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 641-644. (G. Vranceanu) 35 #6089

(with Vranceanu, G.) Sur les espaces de Riemann associés à une forme cubique. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1515-1517. (Authors' summary) 37 #1369

Harmonic tensors of Riemannian spaces with a simply transitive group of motions. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 645-651. (G. Tallini) 42 #8417

Simionescu, Gheorghe D.

A generalization of the finite increments formula. Consequences. (Romanian. English, French, German and Russian summaries) *Bul. Inst. Politehn. București* 27 (1965), *no.* 4, 41-46. (S. Marcus) 33 #5803

A generalization of the Cauchy mean value formula. (Romanian. English, French, German and Russian summaries) *Bul. Inst. Politehn. București* 27 (1965), *no.* 5, 39-44. (Editors) 32 #5813

Simionescu, Gleb

Irrational equations and their systematic solution. (Romanian) *Gaz. Mat. Ser. A* 75 (1970), 30-35. (P. Bundschuh) 44 #1773

Simis, Aron

Cyclic Jacobi groups. (Portuguese) *Gaz. Mat. (Lisboa)* 28 (1967), *no.* 105-108, 18-21. (R. G. Stanton) 39 #6973

* When are projective modules free? Queen's Papers in Pure and Applied Mathematics, No. 21. *Queen's University, Kingston, Ont.,* 1969. iii + 254 *pp.* (B. L. Osofsky) 41 #260

On $\mathfrak{N}_\alpha$-neotherian modules. *Canad. Math. Bull.* 13 (1970), 245-247. (W. S. Martindale, III) 42 #7691

Projective modules of certain rings and the existence of cyclic basis. *J. Algebra* 18 (1971), 468-476. (S. Williamson) 43 #1961

Šimko, V. I.

Problem of the construction of nonrigid closed ridge surfaces of rotation. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. No.* 19 (1963), 285-289. (M. Kuczma) 33 #3234

On the structure of non-rigid closed edged surfaces of revolution. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 184-187. (Z. Nádeník) 29 #1586

Infinitesimal deformations of ridged surfaces of revolution. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 9 (64), 93-98. (W. J. Firey) 36 #796

Simmonds, James G.

(with Reissner, E.) Asymptotic solutions of boundary valu problems for elastic semi-infinite circular cylindrical shells. *J. Math. and Phys.* 45 (1966), 1-22. (Yi-Yuan Yu) 33 #6919

Influence coefficients for semi-infinite and infinite circular cylindrical elastic shells. *J. Math. and Phys.* 45 (1966), 127-149. (L. S. D. Morley) 33 #6920

Simplification and reduction of the Sanders-Koiter linear shell equations for various midsurface geometries. *Quart. Appl. Math.* 28 (1970), 259-275. (A. Sawczuk) 42 #2723

Extension of Koiter's L_2-error estimate to approximate shel solutions with no strain energy functional. (German summary) *Z. Angew. Math. Phys.* 22 (1971), 339-345. (S. Drobot) 44 #497

Simmons, Donald M.

One-dimensional space allocation: An ordering algorithm. *Operations Res.* 17 (1969), 812-826. (Author's summary) 40 #233

Simmons, Gustavus J.

Some results pertaining to Fermat's conjecture. *Math. Mag.* 39 (1966), 18-21. (R. Finkelstein) 32 #7499

Correlation properties of binary code sequences. *Proc. Colloqim on Information Theory (Debrecen, 1967), Vol. II, pp.* 387-409. *János Bolvai Math. Soc., Budapest,* 1968. (Author's summary) 39 #6660

A constructive analysis of the aperiodic binary correlatio function. *IEEE Trans. Information Theory* IT-15 (1969), 340-345. (K. S. Miller) 39 #7999

Some results concerning the occurrence of specified prime factors in $\binom{m}{r}$. *Amer. Math. Monthly* 77 (1970), 510-512. (J. H. Jordan) 42 #4476

Simmons, H.

The solution of a decision problem for several classes of rings. *Pacific J. Math.* 34 (1970), 547-557. (H. Gonshor) 42 #1658

Simmons, Walt R.

(with Greenberg, Bernard G.; Abul-Ela, Abdel-Latif A.; Horv Daniel G.) The unrelated question randomized response model: Theoretical framework. *J. Amer. Statist. Assoc.* 64 (1969), 520-539. (Authors' summary) 40 #982

Simms, D. J.

The spectral sequence of a covering. *Proc. Edinburgh Math. Soc.* (2) 12 (1960/61), 149-158. (E. Golod (RŽMat 1963 #5 A359)) 31 #1680

Spinors and rotations. *Proc. Roy. Irish Acad. Sect. A* 65, 69-75 (1967). (H. Umezawa) 36 #309

* Lie groups and quantum mechanics. Lecture Notes in Mathemat No. 52. *Springer-Verlag, Berlin-New York,* 1968. iv + 90 *pp.* (R. Mirman) 38 #904

(with Miller, John J. H.) Radial limits of the rational functions $T\mu$ of Harish-Chandra. *Proc. Roy. Irish Acad. Sect. A* 68, 41-47 (1969). (J. A. Wolf) 40 #7391

(with Miller, John) A difference equation satisfied by the functions $T\mu$ of Harish-Chandra. *Amer. J. Math.* 92 (1970), 362-3 (J. A. Wolf) 41 #8589

Topological aspects of the projective unitary group. *Proc. Cambridge Philos. Soc.* 68 (1970), 57-60. (W. Wojtyński) 41 #60

Simniškis, K. I.

(with Ruplis, B. P.) Approximate conformal mapping of polygons onto the half plane by the method of fragmentation. (Russia *Certain Problems of Applied Mathematics, No.* 3 *(Russian), pp.*71 - 81. *Izdat. "Naukova Dumka", Kiev,* 1967. 39 #2959

Simoda, Seturo

Traité sur la théorie des équations elliptiques et semi-linéaires. IV. *Mem. Osaka Univ. Lib. Arts Ed. Ser. B No.* 12 (1963), 1-9. (R. C. MacCamy) 29 #6162

Sur la régularité des points frontières relative à l'équatio linéaire du type elliptique et du second ordre dans le problème d Dirichlet. I, II. *Proc. Japan Acad.* 41 (1965), 776-781, 782-784. (A. M. White) 34 #6308

Sur la régularité des points frontières relative à l'équatio linéaires du type elliptique et du second ordre. *Mem. Osaka Univ Lib. Arts Ed. Ser. B No.* 13 (1964), 33-53. (R. C. MacCamy) 32 #2727

Remarque sur l'estime intérieure pour les dérivées des solut de l'équation linéaire du type elliptique et du second ordre. *Me Osaka Gakugei Univ. B Natur. Sci. No.* 14 (1965), 1-16. (Kenneth O. Leland) 37 #572

Sur la régularité des points frontières relative à l'équatio linéaire du type elliptique et du second ordre. II. *Mem. Osaka Gakugei Univ. B Natur. Sci. No.* 14 (1965), 17-25. (R. C. MacCamy 37 #597

Simões Pereira, J. M. S.

On the maximum value of sums of products. *Gaz. Mat. (Lisboa* 25 (1964), *no.* 94-95, 1-3. (R. P. Bambah) 30 #3052; erratum, 39, p. 1592

(with Goncalves, A. S.) Remarque sur le théorème de Rado. *Gaz. Mat. (Lisboa)* 25 (1964), *no.* 96-97, 20-21. (Authors' summar 31 #5815; erratum, 39, p. 1592

On the theory of the bi-dimensional diffusion equation. (Portuguese) *Univ. Lisboa Revista Fac. Ci. A* (2) 11 (1964/65), 5-120. (C. Corduneanu) 35 #587

The heat equation on closed surfaces. *Arquivo Inst. Gulbenkian Ci. A Estud. Mat. Fis.-Mat.* 3 (1965), 1-68. (W. F. Ames) 33 #4485

On the Boolean matrix equation $M' = \bigvee_{i=1} M^{i}$. *J. Assoc. Comput. Mach.* 12 (1965), 376-382. (Author's summary) 34 #5587 (E)

Some results on the tree realization of a distance matrix. (French summary) *Theory of Graphs (Internat. Sympos., Rome, 1966), pp.* 383-388. *Gordon and Breach, New York; Dunod, Paris,* 1967. (From the author's summary) 36 #2523

Corrigendum: "On the Boolean matrix equation $M' = \bigvee_{i=1} M^{i}$". *J. Assoc. Comput. Mach.* 14 (1967), 419-420. (Editors) 38 #5377

Boolean permanents, permutation graphs and products. *SIAM J. Appl. Math.* 16 (1968), 1251-1254. (F. Harary) 38 #3180

Pseudosymmetry, circuit-symmetry, and path-symmetry of a digraph. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf., on Combinatorics,* 1968*), pp.* 295-299. *Academic Press, New York,* 1969. (J. W. Moon) 40 #5501

A note on the tree realizability of a distance matrix. *J. Combinatorial Theory* 6 (1969), 303-310. (R. A. Brualdi) 38 #5650

moju, M. P.

An iterative method for the inversion of matrices. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 726-728. (J. L. Brenner) 34 #5268

mokīn', P. L.

Infinitely small deformations of order *k* of a fragment of a cylindrical surface. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 594-602. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 32 #8264

(with Bīlousova, V. P.) Certain problems of the theory of infinitesimal bendings of higher orders. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1965, *no.* 7, 63-72. (From the authors' introduction) 34 #1932

Infinitesimal bendings of developable surfaces. (Ukrainian. Russian and English summaries) *Vīsnik Kiīv. Unīv.* 1966, *no.* 8, 113-118. (Author's summary) 35 #3558

Certain questions on higher order infinitesimal bendings of developable surfaces. (Ukrainian. English summary; loose Russian summary) *Vīsnik Kiīv. Unīv.* 1968, *no.* 10, *Ser. Mat. Meh.*, 60-67. (R. I. Pimenov) 40 #3479

(with Bīlousova, V. P.; Mīheeva, Z. A.) Infinitesimal affine deformations of surfaces. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1969, *no.* 11, *Ser. Mat. Meh.*, 25-41. 40 #6385

(with Kudrik, P. Ī.) *p*-analytic functions in shell theory. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn, RSR Ser. A* 1970, 723-729, 766. (Authors' summary) 44 #1284

mokon', P. L. See Simokīn', P. L.

imo Louhivaara, Ilippo. See Louhivaara, Ilppo Simo.

mon, Albert

(with Rosenbluth, Marshall N.) Finite Larmor radius equations with nonuniform electric fields and velocities. *Phys. Fluids* 8 (1965), 1300-1322. (L. N. Tao) 32 #6842

(with Rosenbluth, Marshall N.) Flute instability at low density. *Phys. Fluids* 9 (1966), 726-729. (R. S. B. Ong) 35 #5182

imon, Arthur B.

Cesàro summability on groups: Characterization and inversion of Fourier transforms. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ.,* 1965*), pp.* 208-215. *Scott-Foresman, Chicago, Ill.,* 1966. (B. R. Gelbaum) 33 #3054

(with Goldberg, R. R.) The Riemann-Lebesgue theorem on groups. *Acta Sci. Math. (Szeged)* 27 (1966), 35-39. (K. A. Ross) 33 #1654

(with Goldberg, R. R.) Characterization of some classes of measures. *Acta Sci. Math. (Szeged)* 27 (1966), 157-161. (A. Figà-Talamanca) 35 #668

imon, Barry

Some pictorial compactifications of the real line. *Amer. Math. Monthly* 76 (1969), 536-538. (M. G. Murdeshwar) 39 #7565

On positive eigenvalues of one-body Schrödinger operators. *Comm. Pure Appl. Math.* 22 (1969), 531-538. (Teruo Ikebe) 40 #568

On the growth of the number of bound states with increse in potential strength. *J. Mathematical Phys.* 10 (1969), 1123-1126. (F. Calogero) 39 #7897

On the growth of the ground-state binding energy with increase in potential strength. *J. Mathematical Phys.* 10 (1969), 1415-1421. (R. G. Newton) 40 #1098

The theory of semi-analytic vectors: A new proof of a theorem of Masson and McClary. *Indiana Univ. Math. J.* 20 (1970/71), 1145-1151. (S. Newberger) 44 #7357

Some comments on the Jim-Martin lower bound. *Phys. Rev. D* (3) 1 (1970), 1240-1241. (N. Nakanishi) 41 #7960

Hamiltonians defined as quadratic forms. *Comm. Math. Phys.* 21 (1971), 192-210. (W. Faris) 44 #5044

Distributions and their Hermite expansions. *J. Mathematical Phys.* 12 (1971), 140-148. (H. Tornehave) 43 #3799

Simon, Carl P.

On a classification of a Baire set of diffeomorphisms. *Bull. Amer. Math. Soc.* 77 (1971), 783-787. (J. P. Levine) 44 #2242

Simon, H.

(with Rand, R. H.) On the stability of a differential equation with application to parametrically excited systems. *Trans. ASME Ser. E. J. Appl. Mech.* 37 (1970), 218-220. (N. Chafee) 42 #6375

Simon, Herbert A.

A note on mathematical models for learning. *Psychometrika* 27 (1962), 417-418. (Author's summary) 29 #3266

Simon, Hermann

Noethersche Gruppen mit endlicher Hyperzentrumsfaktorgruppe. *Illinois J. Math.* 8 (1964), 231-240. (G. Zappa) 29 #157

Noethersche Gruppen mit nilpotenten Normalteilern von endlichem Index. *Illinois J. Math.* 8 (1964), 241-247. (G. Zappa) 29 #1254

Eine Verallgemeinerung eines Satzes von Malcev und Baer. *Arch. Math. (Basel)* 17 (1966), 289-291. (J. E. Adney) 34 #1388

Artinian and noetherian hypercentral groups. *Proc. Amer. Math. Soc.* 17 (1966), 1407-1409. (T. R. Berger) 35 #1671

Noethersche Gruppen mit überauflösbar eingebetteten Normalteilern von endlichem Index. *Arch. Math. (Basel)* 18 (1967), 8-14. (G. Zappa) 34 #5935

On a class of solvable groups of even order. *J. Algebra* 8 (1968), 165-175. (D. J. S. Robinson) 36 #2700

Finite solvable groups containing maximal nilpotent subgroups. *J. Algebra* 10 (1968), 389-399. (A. Mann) 38 #238; erratum, 38, p. 1378

Extensions of torsionfree groups by torsion groups. *Proc. Amer. Math. Soc.* 23 (1969), 433-438. (J. Wiegold) 39 #6991

Simon, Isidore

Les sciences naturelles, les mathématiques et l'astronomie hébraïques aux XVI^{e}, XVII^{e} et XVIII^{e} siècles, et leur place dans l'histoire générale des sciences. *Actes XIII^{e} Congrès Internat. d'Histoire des Sciences (Paris, 1968), Tome III B: Science et Philosophie: XVII^{e} et XVIII^{e} Siècles, pp.* 127-130. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (M. Kline) 42 #5759

Simon, J. D.

(with Mitter, S. K.) A theory of modal control. *Information and Control* 13 (1968), 316-353. (L. M. Silverman) 39 #7969

(with Mitter, S. K.) Synthesis of transfer function matrices with invariant zeros. *IEEE Trans. Automatic Control* AC-14 (1969), 420-421. (Authors' summary) 40 #3930

Simon, Jacques

Étude élémentaire d'une généralisation de la transformée de Fourier. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A96-A99. (J. Eells) 39 #6359

(with Flato, Moshe) Sur la covariance conforme d'une équation de spin quelconque. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1051-A1053. (S. Deser) 40 #8357

(with Flato, Moshe; Sternheimer, Daniel) Conformal covariance of field equations. *Ann. Physics* 61 (1970), 78-97. (S. N. Biswas) 43 #1524

Simon, Jean-Claude

(with Aubineau, Jean-Pierre) Représentation d'un signal à spectre borné. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1290-1293. (E. A. Robinson) 40 #5329

Simon, Jonathan

Some classes of knots with property *P*. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga.,* 1969*), pp.* 195-199. *Markham, Chicago, Ill.,* 1970. (R. H. Fox) 43 #4018b

On knots with nontrivial interpolating manifolds. *Trans. Amer. Math. Soc.* 160 (1971), 467-473. (J. P. Levine) 44 #5949

Simon, K. W.

(with Simon, K. W.) Reduced order Kalman filter. *Internat. J. Control* (1) 10 (1969), 501-509. (Authors' summary) 40 #3988

(with Stubberud, A. R.) Duality of linear estimation and control. *J. Optimization Theory Appl.* 6 (1970), 55-67. (G. M. Ewing) 41 #9088

Simon, L.

Generalizations of the Dirichlet problem for the distributional equation $\Delta T = 0$. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 127-133. (J. Horváth) 34 #2927

Generalizations of the Dirichlet problem for the equation $\Delta u = f$. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1087-1093. (J. Horváth) 37 #4423

Simon, Leslie E.

(with Stephan, Frederick F.; Tukey, John W.; Mosteller, Frederick; Mood, Alex M.; Hansen, Morris H.; Dixon, W. J.) Samuel S. Wilks. *J. Amer. Statist. Assoc.* 60 (1965), 939-966. (Editors) 32 #8420

de Simon, Luciano

Un'applicazione della teoria degli integrali singolari allo studio delle equazione differenziali lineari astratte del primo ordine. *Rend. Sem. Mat. Univ. Padova* 34 (1964), 205-223. (J. Horváth) 31 #467 (with Torelli, Giovanni) Soluzioni periodiche di equazioni a derivate parziali di tipo iperbolico non lineari. *Rend. Sem. Mat. Univ. Padova* 40 (1968), 380-401. (S. Cinquini) 37 #4415

Sull'equazione delle onde con termine noto periodico. (English summary) *Rend. Ist. Mat. Univ. Trieste* 1 (1969), 150-162. (C. Vaghi) 44 #591

Simon, Marvin K.

On the capacity of a cascade of identical discrete memoryless nonsingular channels. *IEEE Trans. Information Theory* IT-16 (1970), 100-102. (Author's summary) 42 #7383

Simon, P.

(See Gauss, C. F., 34 #2424)

Simon, Petr

On local merotopic character. *Comment. Math. Univ. Carolinae* 12 (1971), 249-270. (D. C. Kent) 44 #5913

Simon, R. M.

Optimal cannibalization policies for multicomponent systems. *SIAM J. Appl. Math.* 19 (1970), 700-711. (K. Hazeghi) 42 #7253

Simon, René

Sur l'instabilité gravitationnelle de Jeans. (English summary) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 49 (1963), 927-934. (Author's summary) 29 #1046

Stability of step shocks by the normal-modes methods. *J. Mécanique* 3 (1964), 165-172. (H. C. Levey) 29 #5484

Fluctuations and galaxy formation in the Einstein universe. *Astronom. and Astrophys.* 6 (1970), 151-154. (C. Gilbert) 43 #5860

Simon, Richard. See Simon, R. M.

Simon, Udo

Minkowskische Integralformeln und ihre Anwendungen in der Differentialgeometrie im Grossen. *Math. Ann.* 173 (1967), 307-321. (H. W. Guggenheimer) 36 #2094

Kennzeichnungen von Sphären. *Math. Ann.* 175 (1968), 81-88. (H. W. Guggenheimer) 36 #3291

Zur Relativgeometrie: Symmetrische Zusammenhänge auf Hyperflächen. *Math. Z.* 106 (1968), 36-46. (E. Heil) 37 #6847

(with Weinstein, Alan) Anwendungen der de Rhamschen Zerlegung auf Probleme der lokalen Flächentheorie. (English summary) *Manuscripta Math.* 1 (1969), 139-146. (I. Chavel) 39 #7538

Probleme der lokalen und globalen Mehrdimensionalen Differentialgeometrie. (English summary) *Manuscripta Math.* 2 (1970), 241-284. (R. L. Bishop) 43 #1092

(with Wendland, Wolfgang) Zur Indexmethode in der Differentialgeometrie im Großen. *Math. Z.* 116 (1970), 242-246. (C.-C. Hsiung) 42 #8427

Kongruenzsätze der affinen Differentialgeometrien. *Math. Z.* 120 (1971), 365-368. (E. Heil) 44 #4654

Simon, W. E.

Numerical technique for solution and error estimate for the initial value problem. *Math. Comp.* 19 (1965), 387-393. (W. S. Loud) 31 #4188

Simončič, Marjan

Orthogonal polynomials on a system of points. (Slovenian. English summary) *Obzornik Mat. Fiz.* 18 (1971), 2-9. (Editors) 44 #1958

Simonenko, I. B.

The Riemann boundary-value problem for n pairs of functions with measurable coefficients and its application to the study of singular integrals in weighted L_p spaces. (Russian) *Dokl. Akad. Nauk SSSR* 141 (1961), 36-39. (Editors) 29 #4899

Some systems of integral equations of convolution type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1962, *no.* 6 (31), 119-130. (È. Hasabov (RŽMat 1964 #3 B369)) 31 #1530

A maximal boundary property of functions with integral representations of a certain type. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1301-1302. (D. Mitrović) 29 #4900

A new general method of studying linear operator equations of a type of singular integral equations. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 790-793. (D. C. Kleinecke) 31 #5099

The Riemann boundary-value problem for n pairs of functions with measurable coefficients and its application to the study of singular integrals in L_p spaces with weights. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 277-306. (J. F. Heyda) 29 #253

} Interpolation and extrapolation of linear operators in Orlicz spaces. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 536-553. (P. Grisvard) 33 #7839

A maximal boundary property of functions with integral representations of a certain type. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 390-397. (P. L. Duren) 30 #1249

A new general method of investigating linear operator equations of singular integral equation type. I. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 567-586. (R. T. Seeley) 31 #3876

A new general method of investigating linear operator equations of singular integral equation type. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 757-782. (R. T. Seeley) 32 #6174

Convolution type operators in cones. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1255-1257. (Z. Zieleźny) 39 #2027

Convolution type operators in cones. (Russian) *Mat. Sb. (N.* 74(116) (1967), 298-313. (Z. Zieleźny) 36 #5773

(with Ped′, V. N.) A steady-state problem of heat conductio in a layer with heat transfer conditions at the boundary. *Prikl. Mat. Meh.* 31 (1967), 320-327 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 339-348. (W. F. Ames) 40 #570

Certain general questions of the theory of the Riemann boundary value problem. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 1138-1146. (W. Żakowski) 38 #3447

Multidimensional discrete convolutions. (Russian) *Mat. Issl* 3 (1968), *vyp.* 1 (7) 108-122. (Edwin Hewitt) 41 #2412

(with Rode, L. O.) Multidimensional singular integrals in classes of general higher smoothness moduli. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 928-936. (D. W. Solomon) 39 #3362 (E)

Justification of the averaging method for a convection probl (Russian) *Mathematical Analysis and its Applications (Russian), pp.* 185-189. *Izdat. Rostov. Univ., Rostov-na-Donu,* 1969. (Simona Popp) 44 #2412

(with Semenjuta, V. N.) The index of multidimensional discr convolutions. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 2 (12) 68-9 (Edwin Hewitt) 41 #2413

(with Semenjuta, V. N.) Computation of the index of multidimensional discrete convolutions. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 4 (14) 134-141. (László Zsidó) 44 #3138

A justification of the method of averaging for abstract parabolic equations. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 33-34. (L. Cattabriga) 41 #5750

Basis of the averaging method for abstract parabolic equatio (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 53-61. (W. H. Fleming) 41 #2244

(with Rode, L. O.) Corrections to the article "Multidimensi singular integrals in classes of general higher smoothness moduli" (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 712. (D. W. Solomon) 43 #5363

Boundary value problems of analytic functions of two variable and the integral equations connected with them. (Russian) *Dokl. Akad. Nauk SSSR* 199 (1971), 551-552. (W. Żakowski) 44 #2001

On the question of the solvability of bisingular and polysingular equations. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 1, 93-94. (D. Przeworska-Rolewicz) 43 #7883

Simoni, A.

(with Vitale, B.) Equivalence among fermion symmetry-multipl and choice of the symmetry group for strong interactions. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1199-1213. (P. Tarjanne) 32 #5204

(with Preziosi, B.; Vitale, B.) A general analysis of the reduction of the direct product of two irreducible representations of SU_3 and of its multiplicity structure. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1101-1113. (K. T. Hecht) 33 #1076

(with Zaccaria, F.) On the realization of semi-simple Lie algebras with quantum canonical variables. (Italian and Russian summaries) *Nuovo Ciemnto A* (10) 59 (1969), 280-292. (S. N. Biswas) 41 #6492

(with Zaccaria, F.) A unicity theorem on the realizations of semi-simple Lie algebras with quantum canonical variables. (Italian summary) *Nuovo Cimento A* (10) 67 (1970), 336-344. (Jean Nuyts) 41 #9512

de Simoni, Sergio. See De Simoni, Sergio.

Simonian, L. A. See Simonjans, L.

Simonius, M.

(with Bierter, W.) Group theoretical classification of transitions. *Z. Physik* 191 (1966), 91-102. (R. Gatto) 33 #1069

Simonjan, L. A. See Simonjans, L.

Simonjan, S. G.

Asymptotic of the width of lacunae in the spectrum of the Sturm-Liouville operator with periodic analytic potential. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 49 (1969), 65-68. (M. Švec) 44 #520

The asymptotic behavior of the multipliers of a system of differential equations with periodic coefficients. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 51 (1970), 203-206. (G. Niculescu) 44 #5562

Asymptotics of the width of lacunae in the spectrum of a Sturm-Liouville operator with periodic analytic potential. (Russian *Differencial'nye Uravnenija* 6 (1970), 1265-1272. (Ju. M. Berezanskiĭ) 43 #6495

Simonjans, L.

Boolean functions of the same type. (Russian. English summary) *Latvijas Valsts Univ. Zinātn. Raksti* 47 (1963), *laid.* 1, 267-278. (Author's summary) 34 #7292

On two radicals of Lie algebras. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 281-283. (P. M. Cohn) 29 #1235

(The sign } indicates an entry in the supplement.)

Certain questions of the theory of representations of Lie algebras. (Russian. English summary) *Latvijas Valsts Univ. Zinātn. Raksti* 58 (1964), *vyp.* 2, 5-20. (J. M. G. Fell) 32 #5800

On stable derivations of Lie algebras. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1965, *no.* 3, 67-70. (J. M. G. Fell) 32 #5801

Some radicals of Lie algebras. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1101-1107. (P. M. Cohn) 32 #7615

monnard, Michel A.

* Linear programming. Translated from the French by William S. Jewell. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1966. xxiv + 430 *pp.* (T. L. Saaty) 34 #1079

monnet, Michel

Calcul différentiel dans les espaces non normables. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A1249-A1252. (S. Foglio) 44 #7291

monoff, N. See Simonov, N. I.

monov, A. S.

(with Kononenko, V. I.; Lihtarnikov, L. M.) The sign of the solution of a certain boundary value problem. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 5 (1965), 59-73. (L. Finkelstein) 43 #855

A priori estimates for integro-differential equations. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 5 (1965), 150-165. (V. D. Fedorov (RŽMat 1968 #5 B452)) 42 #811

(with Kreĭn, S. G.) A theorem on homeomorphisms and quasilinear equations. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1226-1229. (J. Peetre) 33 #6138

Generalized solutions, with increased smoothness, of quasilinear elliptic equations. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 180-187. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (M. Zlámal) 41 #631

monov, Ju. A.

(with Rudik, A. P.) New method of investigation of singularities of Feynman diagrams. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1016-1029 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 703-712. (J. N. Islam) 30 #5714

Regge trajectories in the Bethe-Salpeter equation. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 985-993 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 671-676. (N. Nakanishi) 31 #5516

Motion of singularities of partial amplitudes in the complex j plane. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 242-252 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 160-166. (J. Gunson) 33 #3648

The three-body problem. A complete system of angular functions. *Jadernaja Fiz.* 3 (1966), 630-638 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 461-466. (H. Primas) 34 #3945

(with Calogero, F.) Necessary conditions for saturation of nuclear forces. (Italian and Russian summaries) *Nuovo Cimento B* (10) 64 (1969), 337-355. (G. Barton) 40 #6878

monov, Ju. B.

(with Norden, A. P.) A certain interpretation of unitary space of constant curvature. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 2 (81), 63-71. (L. W. Green) 41 #7561

monov, M. I.

The first period in the development of the theory of partial differential equations of the first order. (Ukrainian) *Istor.-Mat. Zbirnik* 2 (1961), 5-21. (Z. Opial) 35 #3200

(with Gnedenko, B. V.; Rybnikov, K. A.) Problems of the history of mathematics in the modern period. (Russian) *Istor.-Mat. Issled. No.* 15 (1963), 73-96. (Kenneth May) 31 #3299

First studies on differential equations at St. Petersburg Academy of Sciences. (Ukrainian. Russian summary) *Istor.-Mat. Zbirnik* 4 (1963), 104-111. 32 #25

The invariance of solutions of systems of linear differential equations with variable parameters. (Russian) *Theory of Invariance in Automatic Control Systems (Russian), Proc. Second All-Union Conf., Kiev,* 1962, *pp.* 84-88. *Izdat. "Nauka", Moscow,* 1964. (Z. Opial) 32 #2655

The earliest studies at the St. Petersburg Academy of Sciences in the field of mathematical analysis. (Russian) *Voprosy Istor. Estest. i Tehn. Vyp.* 17 (1964), 82-86. (Judith Lewis) 36 #6253

Basic directions of the development of differential equations in the eighteenth and nineteenth centuries. (Russian) *History Methodology Natur. Sci., No. V, Math. (Russian), pp.* 157-174. *Izdat. Moskov. Univ., Moscow,* 1966. (I. N. Veselovskiĭ) 33 #7233

On the development of the theory of linear differential equations from Euler to Peano. (Russian) *Istor.-Mat. Issled. No.* 17 (1966), 333-338. (Kenneth May) 36 #1272

imonov, N. I. See Simonov, M. I.

imonov, R. A.

Numerical cryptography and Slavic mathematical education in the XIV-XVI centuries. (Bulgarian) *Fiz.-Mat. Spis. Bŭlgar. Akad. Nauk.* 6(39) (1963), 199-206. 29 #3

Simonov, V. I.

Use of a hypercenter of symmetry in analysis of crystal structures. *Kristallografija* 10 (1965), 10-14 *(Russian); translated as Soviet Physics Cryst.* 10 (1965), 6-9. (P. W. Higgs) 31 #5634

Simonova, S. N.

(with Prizva, G. I.) Distribution of the value of the first jump. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 117-121. (G. E. Denzel) 35 #3741

A single-line system with a constraint and with a semi-Markov input flow. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 1089-1093. (E. Reich) 39 #6420

The outflow of single-line service systems. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 501-510. (D. J. Daley) 42 #1241

Simonovits, András

On the dominant Rayleigh quotient of positive matrices. (Hungarian. English and Russian summaries) *Szigma—Mat.-Közgazdasági Folyóirat* 2 (1969), 76-78. (Author's summary) 40 #8245

Simonovits, Miklós

(with Katona, Gyula; Nemetz, Tibor) On a problem of Turán in the theory of graphs. (Hungarian. Russian and English summaries) *Mat. Lapok* 15 (1964), 228-238. (Authors' summary) 30 #2483

(with Erdős, P.) A limit theorem in graph theory. *Studia Sci. Math. Hungar.* 1 (1966), 51-57. (W. Moser) 34 #5702

A new proof and generalizations of a theorem of Erdős and Pósa on graphs without $k + 1$ independent circuits. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 191-206. (F. Harary) 35 #2782

A method for solving extremal problems in graph theory, stability problems. *Theory of Graphs (Proc. Colloq., Tihany,* 1966*), pp.* 279-319. *Academic Press, New York,* 1968. (J. W. Moon) 38 #2056

Simons, Connie L.

(with Crownover, R. M.) Functions of bounded convexity on rectifiable arcs. *Monatsh. Math.* 74 (1970), 389-397. (F. Brooks) 43 #2172

Simons, F. H.

Ein weiterer Beweis eines Zerlegungssatzes für messbare Transformationen. *Math. Z.* 89 (1965), 247-249. (Edwin Hewitt) 31 #4870

(with Helmberg, G.) A dualization of Kac's recurrence theorem. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 608-615. (D. Newton) 37 #371

A note on exit time under transformations. *Math. Z.* 95 (1967), 324-330. (T. Hida) 36 #5305

(with Helmberg, G.) On the conservative parts of the Markov processes induced by a measurable transformation. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 165-180. (W. Parry) 39 #4929

(with Helmberg, G.) Aperiodic transformations. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 180-190. (U. Krengel) 40 #5822

Recurrence and preservation of measure. *Proc. Amer. Math. Soc.* 24 (1970), 221. (T. P. Srinivasan) 40 #2818

A dissipative transformation with a trivial tail-algebra. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 177-179. (W. Parry) 43 #6400

Simons, Gordon

Lower bounds for average sample number of sequential multihypothesis tests. *Ann. Math. Statist.* 38 (1967), 1343-1364. (A. Ifram) 36 #1037

A sequential three hypothesis test for determining the mean of a normal population with known variance. *Ann. Math. Statist.* 38 (1967), 1365-1375. (H. Taylor) 36 #1038

A class of sequential procedures for choosing one of K hypotheses concerning the unknown drift parameter of the Wiener process. *Ann. Math. Statist.* 38 (1967), 1376-1383. (M. S. Srivastava) 35 #7502

(with Robbins, Herbert E.; Starr, Norman) A sequential analogue of the Behrens-Fisher problem. *Ann. Math. Statist.* 38 (1967), 1384-1391. (D. Siegmund) 35 #5086

(with Siegmund, David; Feder, Paul) Existence of optimal stopping rules for rewards related to S_n/n^1. *Ann. Math. Statist.* 39 (1968), 1228-1235. (H. Teicher) 37 #7042

On the cost of not knowing the variance when making a fixed-width confidence interval for the mean. *Ann. Math. Statist.* 39 (1968), 1946-1952. (L. J. Gleser) 39 #1056

(with Hall, W. J.) On characterizations of the gamma distribution. *Sankhyā Ser. A* 31 (1969), 385-390. (L. A. Aroian) 42 #1258

(with Hoeffding, Wassily) Unbiased coin tossing with a biased coin. *Ann. Math. Statist.* 41 (1970), 341-352. (A. F. Ifram) 44 #2292

A martingale decomposition theorem. *Ann. Math. Statist.* 41 (1970), 1102-1104. (L. L. Helms) 41 #6291

Simons, James

A note on minimal varieties. *Bull. Amer. Math. Soc.* 73 (1967), 491-495. (F. J. Almgren, Jr.) 34 #8291

Minimal cones, Plateau's problem, and the Bernstein conjecture. *Proc. Nat. Acad. Sci. U.S.A.* 58 (1967), 410-411. (F. J. Almgren, Jr.) 35 #7221

Minimal varieties in riemannian manifolds. *Ann. of Math.* (2) 88 (1968), 62-105. (W. F. Pohl) 38 #1617

(with Chern, Shiing-shen) Some cohomology classes in principal fiber bundles and their application to riemannian geometry. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 791-794. (G. Tsagas) 43 #5453

Simons, Leo

A reduction in the number of independent axiom schemata for S4. *Notre Dame J. Formal Logic* 3 (1962), 256-258. (A. Heyting) 33 #5476

Simons, S.

A new definition of linear topological space. *Proc. London Math. Soc.* (3) 13 (1963), 1-19. (A. P. Robertson) 29 #2631

* Vector analysis for mathematicians, scientists and engineers. *Pergamon Press, London-Paris-Frankfurt; The Macmillan Co., New York,* 1964. vii + 186 *pp.* (S. J. Bezuszka) 33 #5163

Boundedness in linear topological spaces. *Trans. Amer. Math. Soc.* 113 (1964), 169-180. (A. P. Robertson) 29 #3863

The sequence spaces $l(p_v)$ and $m(p_v)$. *Proc. London Math. Soc.* (3) 15 (1965), 422-436. (A. P. Robertson) 31 #600

A proof that Souslin Souslin $H \subset$ Souslin H. *Canad. Math. Bull.* 9 (1966), 79-82. (G. Fodor) 34 #63

Krein's theorem without sequential convergence. *Math. Ann.* 174 (1967), 157-162. (R. R. Phelps) 36 #6899

A theorem on lattice ordered groups, results of Ptak, Namioka and Banach, and a front-ended proof of Lebesgue's theorem. *Pacific J. Math.* 20 (1967), 149-153. (W. C. Holland) 34 #8158

The iterated limit condition and sequential convergence. *Pacific J. Math.* 22 (1967), 505-513. (S. P. Franklin) 35 #6122

Extended and sandwich versions of the Hahn-Banach theorem. *J. Math. Anal. Appl.* 21 (1968), 112-122. (W. E. Bonnice) 36 #5651

The iterated limit condition, a Fubini theorem and weak compactness. *Math. Ann.* 176 (1968), 87-95. (T. R. Jenkins) 37 #4553

Banach limits, infinite matrices and sublinear functionals. *J. Math. Anal. Appl.* 26 (1969), 640-655. (M. S. Ramanujan) 39 #3293a

The core and applications to infinite matrices. *J. Math. Anal. Appl.* 26 (1969), 656-668. (M. S. Ramanujan) 39 #3293b

Minimal sublinear functionals. *Studia Math.* 37 (1970), 37-56. (Bor-Luh Lin) 42 #8238

Noncompact simplices. *Trans. Amer. Math. Soc.* 149 (1970), 155-161. (K. Sundaresan) 41 #4194

Simons, William

Some disconjugacy criteria for self-adjoint linear differential equations. *J. Math. Anal. Appl.* 34 (1971), 445-463. (H. C. Howard) 44 #521

Simons, William H.

(with Alder, H. L.) n and $n+1$ consecutive integers with equal sums of squares. *Amer. Math. Monthly* 74 (1967), *no.* 1, *part* I, 28-30. (B. M. Stewart) 34 #7454

Simon-Vaillant, Alice

Problème des conditions initiales, non statique, du cas extérieur, en coordonnées harmoniques. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A855-A858. (J. D. Zund) 34 #5487

Problème des conditions initiales sur une variété complète (cas non statique). *J. Math. Pures Appl.* (9) 48 (1969), 173-305. (F. A. E. Pirani) 40 #8415

Solutions globales du problème des conditions initiales sur une variété initiale compacte. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1290-A1293. (F. A. E. Pirani) 41 #6545

Simov, St.

(with Popov, Hr.) A non-stationary problem in the diffusion of homogeneous media. (Russian. English summary) *Annuaire Univ. Sofia Fac. Phys.* 58 (1963/64), 145-151 (1965). (Şt. I. Gheorghiţă) 32 #6850

Simovici, Dan A.

(with Sandu, D.) Observations on the correlation between unate functions and threshold logic functions. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 229-239. (M. Dragomirescu) 41 #5111

On the commutativity of the superposition of Boolean functions and some properties of their iteration. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 449-455. (Author's summary) 41 #5114

(with Reischer, Corina) On a Boolean representation for the Reed-Muller codes. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 191-198. (From the authors' introduction) 42 #5713

(with Reischer, Corina) Linear Boolean automata. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 205-219. (From the authors' introduction) 42 #5734

(with Reischer, Corina) On a colouring problem of strong connected graphs. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 17(21) (1971), *fasc.* 1-2, *secţ.* I, 13-17. (D. R. Lick) 44 #3926

Simpkins, Diana M.

Early editions of Euclid in England. *Ann. of Sci.* 22 (1966), 225-249. (M. Folkerts) 41 #5162

Simpkins, P. G.

(with Freeman, N. C.) On the diffusion of species in simila boundary layers with finite recombination rate at the wall. *Quar J. Mech. Appl. Math.* 18 (1965), 213-229. (J. C. Cooke) 31 #5441

Simpson, A.

(with Tabarrok, B.) On Kron's eigenvalue procedure and related methods of frequency analysis. *Quart. J. Mech. Appl. Math.* 21 (1968), 1-39. (S. Drobot) 37 #1118

Simpson, Alan

On a method of calculation in modal control. *J. Franklin Inst.* 291 (1971), 353-370. (E. Ar) 44 #8025

Simpson, James E.

Nilpotency and spectral operators. *Pacific J. Math.* 14 (196 665-672. (C. A. McCarthy) 29 #6324

On convergence of projections in locally convex spaces. *Canc Math. Bull.* 9 (1966), 107-110. (M. V. Subbarao) 33 #6353

On limits of scalar operators. *Trans. Amer. Math. Soc.* 122 (1966), 163-176. (S. R. Foguel) 33 #1739

* (with Heider, Lester J.) Theoretical analysis. *W. B. Saunde Co., Philadelphia, Pa.-London,* 1967. xii + 379 *pp.* (Bor-Luh Lin) 36 #1246

Simpson, R. Bruce

A fundamental solution for a biharmonic finite-difference operator. *Math. Comp.* 21 (1967), 321-339. (P. Laasonen) 37 #24

Approximation of the minimizing element for a class of functionals. *SIAM J. Numer. Anal.* 5 (1968), 26-41. (L. Collatz) 37 #3414

The Rayleigh-Ritz process for the simplest problem in the calculus of variations. *SIAM J. Numer. Anal.* 6 (1969), 258-271. (P. J. Laurent) 40 #5122

(with Cain, J. B.) Concatenation schemes for the Gaussian channel with feedback. *IEEE Trans. Information Theory* IT-16 (197 632-635. (Authors' summary) 42 #9045

Finite difference methods for mildly nonlinear eigenvalue pro lems. *SIAM J. Numer. Anal.* 8 (1971), 190-211. (K. Najzar) 44 #3482

Sims, B. T.

(with Sanderson, D. E.) A characterization and generalizatio of semi-metrizability. *Amer. Math. Monthly* 73 (1966), 361-365. (R. W. Bagley) 33 #698

Between T_2 and T_3. *Math. Mag.* 40 (1967), 25-26. (Anne K. Steiner) 34 #6709

Sims, Brailey

A characterization of Banach-star-algebras by numerical range *Bull. Austral. Math. Soc.* 4 (1971), 193-200. (T. W. Palmer) 43 #2518

Sims, Charles C.

Enumerating p-groups. *Proc. London Math. Soc.* (3) 15 (1965), 151-166. (G. Zappa) 30 #164

(with Iwasawa, Kenkichi) Computation of invariants in the theory of cyclotomic fields. *J. Math. Soc. Japan* 18 (1966), 86-96. (K. Masuda) 34 #2560

Graphs and finite permutation groups. *Math. Z.* 95 (1967), 76 86. (W. Imrich) 34 #4348

(with Neumann, Peter M.; Wiegold, James) Counterexamples to a theorem of Cauchy. *J. London Math. Soc.* 43 (1968), 234. (D. Livingstone) 38 #5906

Graphs and finite permutation groups. II. *Math. Z.* 103 (1968 276-281. (W. Imrich) 37 #1456

(with Higman, Donald G.) A simple group of order 44,352,000. *Math. Z.* 105 (1968), 110-113. (D. A. Robinson) 37 #2854

On the isomorphism of two groups of order 44,352,000. *Theory of Finite Groups (Symposium, Harvard Univ., Cambridge, Mass.,* 1968 *pp.* 101-108. *Benjamin, New York,* 1969. (J. McKay) 40 #1469

Computational methods in the study of permutation groups. *Computational Problems in Abstract Algebra (Proc. Conf., Oxford, 1967), pp.* 169-183. *Pergamon, Oxford,* 1970. (H. Kimura) 41 #1856

Primitive groups, graphs and block designs. International Conference on Combinatorial Mathematics (1970). *Ann. New York Aca Sci.* 175 (1970), 351-353. (J. E. McLaughlin) 43 #3338

Simsch, Manfred

Ein Zugang zur Entscheidungsaufgabe der stochastischen linear Optimierung. *Wiss. Z. Techn. Hochsch. Ilmenau* 16 (1970), *Heft* 2/3 17-22. (M. L. Juncosa) 42 #4214

Simson, D.

Note on projective modules. (Loose Russian summary) *Bull. Ac Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 355-359. (S. Elliger) 41 #261

(with Tyc, A.) On stable derived functors. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 57-64. (G. Georgescu) 41 #8497

(with Tyc, A.) On stable derived functors. II. (Loose Russia summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 635-639. (G. Georgescu) 43 #6287 ims-Williams, J. H.

(with Baldwin, J. F.) An on-line control scheme using a successive approximation in policy space approach. *J. Math. Anal. Appl.* 22 (1968), 523-536. (H. Taylor) 37 #2550

inaĭ, Ja. G.

Probabilistic concepts in ergodic theory. (Russian) *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 540-559. *Inst. Mittag-Leffler, Djursholm,* 1963. (M. Loève) 32 #196

Spectral properties of ergodic dynamical systems. (Russian) *Dokl. Akad. Nauk SSSR* 150 (1963), 1235-1237. (R. F. Gundy) 31 #3576

On the foundations of the ergodic hypothesis for a dynamical system of statistical mechanics. *Dokl. Akad. Nauk SSSR* 153 (1963), 1261-1264 *(Russian); translated as Soviet Math. Dokl.* 4 (1963), 1818-1822. (RŽMat 1964 #5 B497) 35 #5576

Some remarks on the spectral properties of ergodic dynamical systems. (Russian) *Uspehi Mat. Nauk* 18 (1963), *no.* 5 (113), 41-54. (Y. N. Dowker) 30 #318

On a "physical" system with positive "entropy". (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1963*, no.* 5, 6-12. (Author's summary) 32 #6729

(See also Auslander, L.; Green, L.; Hahn, F., 35 #4332)

Classical dynamic systems with countably-multiple Lebesgue spectrum. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 15-68. (I. Cuculescu) 33 #5847

Asymptotic behavior of closed geodesics on compact manifolds with negative curvature. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1275-1296. (R. Carroll) 37 #4752

(with Minlos, R. A.) The phenomenon of "separation of phases" at low temperatures in certain lattice models of a gas. I. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 375-448. (E. L. Hill) 35 #3998

A lemma from measure theory. (Russian) *Mat. Zametki* 2 (1967), 373-378. (A. Badrikian) 36 #3950

(with Anosov, D. V.) Certain smooth ergodic systems. (Russian) With an appendix by G. A. Margulis. *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 107-172. (M. Eisenberg) 37 #370

Markov partitions and Y-diffeomorphisms. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 1, 64-89. (A. Badrikian) 38 #1361

Construction of Markov partitionings. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 3, 70-80. *(Loose errata)* (A. Badrikian) 40 #3591

(with Minlos, R. A.) The phenomenon of "separation of phases" at low temperatures in certain lattice models of a gas. II. (Russian) *Trudy Moskov. Mat. Obšč.* 19 (1968), 113-178. (J. des Cloizeaux) 39 #3786

(See also Billingsley, Patrick, 41 #1969)

* Theory of dynamical systems. Part I: Ergodic theory. Lectures held in Warsaw, Spring, 1967. English edition by A. Szankowski, based on notes in Polish prepared by J. Strelcyn and issued by the University of Warsaw, 1969. Lecture Notes Series, No. 23. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. a-c + viii + 122 *pp.* (R. L. Adler) 42 #4705

Dynamical systems with elastic reflections. Ergodic properties of dispersing billiards. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 141-192. (V. Drobot) 43 #481

(with Volkovysskiĭ, K. L.) Ergodic properties of an ideal gas with an infinite number of degrees of freedom. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 19-21. (V. Drobot) 44 #6289

Sinaĭskiĭ, E. S.

Some properties of a special operator with applications in the theory of creep. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 6, 117-122. (J. Murzewski) 31 #2907

The asymptotic behavior of a special operator appearing in the theory of creep under variable loading. *Inž. Ž. Meh. Tverd. Tela* 1966*, no.* 6, 157-160; *translated as Mechanics of Solids* 1 (1966)*, no.* 6, 112-113 (1971). (F. Erdogan) 44 #3563

Šinakanjan, A. S.

Some questions on functional decompositions of Boolean functions. (Russian) *Automata Theory and Methods of Formalized Synthesis of Computers and Systems (Proc. Seminar, Kiev,* 1968*), No.* 4 *(Russian), pp.* 50-62. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. (Editors) 39 #6678

Šinakov, Ju. S.

(with Levin, B. R.) Some asymptotic properties of the Bayes estimate of regression coefficients in the presence of unsteady noise. *Problemy Peredači Informacii* 3 (1967), *vyp.* 3, 18-22 *(Russian); translated as Problems of Information Transmission* 3 (1967), *no.* 3, 14-17 (1969). (J. N. K. Rao) 43 #8188

ibn Sinān ibn Thābit ibn Qurra, Ibrāhīm. See Ibrāhīm ibn Sinān ibn Thābit ibn Qurra.

Sinanjan, N. O.

A certain class of orthogonal systems. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 4 (1969), *no.* 2, 122-136. (K. Karták) 42 #4950

Limits of indeterminacy in measure for the T-means of series in complete orthonormal systems. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 6, 522-533. (K. Karták) 44 #1986

Sinanjan, S. O.

Some estimates for a class of polynomials bounded on an arc of a circle and their derivatives. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 39 (1964), 133-139. (S. Mandelbrojt) 31 #3578

On extending the uniqueness property of analytic functions to closed, nowhere dense sets. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 779-782. (W. Kaplan) 29 #1308

The uniqueness property of analytic functions on closed sets without interior points. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1365-1381. (W. Seidel) 33 #290

Approximation by analytic functions and polynomials in the mean with respect to the area. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 546-578. (Victor Havin) 35 #389

Areal mean approximation by polynomials. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 444-455. (Á. Elbert) 43 #536

Sinanoğlu, Oktay

(with Alper, Joseph S.) The group R_4 in atomic-structure theory: The hydrogenic R_4 versus the mathematical R_4 and the Coulomb interaction in $2s^m2p^n$ and $3s^m3p^n3d^r$ configurations. *Phys. Rev.* (2) 177 (1969), 77-85. (Authors' summary) 38 #6802

Sinay, Ya. G. See Sinaĭ, Ja. G.

Šincel′, A. See Schinzel, André.

Sinclair, Allan M.

(with Johnson, B. E.) Continuity of derivations and a problem of Kaplansky. *Amer. J. Math.* 90 (1968), 1067-1073. (A. B. Willcox) 39 #776

Continuous derivations on Banach algebras. *Proc. Amer. Math. Soc.* 20 (1969), 166-170. (J. B. Miller) 38 #1530

(with Johnson, B. E.) Continuity of linear operators commuting with continuous linear operators. II. *Trans. Amer. Math. Soc.* 146 (1969), 533-540. (G. P. Johnson) 40 #4791

Eigenvalues in the boundary of the numerical range. *Pacific J. Math.* 35 (1970), 231-234. (S. R. Caradus) 42 #5086

Jordan homomorphisms and derivations on semisimple Banach algebras. *Proc. Amer. Math. Soc.* 24 (1970), 209-214. (E. Størmer) 40 #3310

Jordan automorphisms on a semisimple Banach algebra. *Proc. Amer. Math. Soc.* 25 (1970), 526-528. (E. Størmer) 41 #4241

The norm of a hermitian element in a Banach algebra. *Proc. Amer. Math. Soc.* 28 (1971), 446-450. (F. F. Bonsall) 43 #921

(with Knopfmacher, J.) Fields with few extensions. *Proc. Amer. Math. Soc.* 29 (1971), 255-258. (L. Narici) 43 #191

Sinclair, Annette

$|\varepsilon(z)|$-closeness of approximation. *Pacific J. Math.* 15 (1965), 1405-1413. (H. Kober) 32 #7759

(with Walsh, J. L.) On the degree of convergence of extremal polynomials and other extremal functions. *Trans. Amer. Math. Soc.* 115 (1965), 145-160. (M. Marden) 33 #7564

Sinclair, I. G.

(with O'Neill, M.; Smith, Francis J.) Polynomial curve fitting when abscissas and ordinates are both subject to error. *Comput. J.* 12 (1969/70), 52-56. (From the authors' summary) 39 #1088

Sindalovskiĭ, G. H.

The continuity of functions of several variables with respect to congruent sets. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 201-207. (S. Marcus) 29 #4843

Differentiability with respect to congruent sets. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 11-40. (S. Marcus) 30 #3185

On the equivalence between ordinary derivatives and the derivatives with respect to congruent sets of a certain class. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 987-996. (H. Fast) 33 #231

On the construction of continuous functions with given differential properties on a set of complete measure and certain applications to Fourier series. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 640-657. (S. Marcus) 34 #1463

On the total differential. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 347-367. (Á. Császár) 33 #7469

The derived numbers of continuous functions. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 274-277. (H. Fast) 33 #5798

The derived numbers of continuous functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 983-1023. (S. Marcus) 39 #375

Šindelář, Karel

Generalizations of planar points. (Czech. Russian and French summaries) *Časopis Pěst. Mat.* 88 (1963), 84-105. (D. Mazkewitsch) 32 #1619

The reducibility of polars of points with respect to algebraic hypersurfaces and its geometric significance. (Czech. Russian, English and German summaries) *Sb. Prací Vys. Školy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 5 (1967), 49-58. (J. Čižmár) 42 #3086

A note on Pythagorean triangles. (Slovak. English summary) *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 144-147. (Editors) 38 #5713

Real cyclic correlations in S_r. (Czech. French summary) *Časopis Pěst. Mat.* 95 (1970), 86-92. (H. Schwerdtfeger) 41 #9093

In memoriam: Bohumil Bydžovský. (Czech) *Časopis Pěst. Mat.* 95 (1970), 100-113. (1 *plate*) (Editors) 41 #5176

In memory of academician Bohumil Bydžovský. *Czechoslovak Math. J.* 20(95) (1970), 169-178. (1 *plate*) (Editors) 41 #20

Sinden, Frank William

(with Berlekamp, E. R.; Gilbert, E. N.) A polygon problem. *Amer. Math. Monthly* 72 (1965), 233-241. (E. Morgantini) 31 #3925

Šinderman, I. D.

Infinite systems of linear differential equations. (Russian) *Differencial'nye Uravnenija* 4 (1968), 276-282. (L. K. Jackson) 37 #3147

Sindhu Chaudhuri, Kripa. See Chaudhuri, Kripa Sindhu.

Šindler, A. A.

Certain theorems in the general theory of approximate methods of analysis and their application to the methods of collocation, moments and Galerkin. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 415-432. (J. S. Shipman) 35 #5120

The rate of convergence of an enriched collocation method for ordinary differential equations. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 229-233. (M. L. Juncosa) 39 #2340

Sine, R. C.

Spectral decomposition of a class of operators. *Pacific J. Math.* 14 (1964), 333-352. (E. R. Lorch) 29 #1541

On a paper of Phelps. *Proc. Amer. Math. Soc.* 18 (1967), 484-486. (M. Rosenfeld) 35 #2152

On convex combinations of Blaschke products. *Proc. Amer. Math. Soc.* 18 (1967), 571-572. (J. V. Ryff) 35 #2153

(with Jamison, Benton) Irreducible almost periodic Markov operators. *J. Math. Mech.* 18 (1968/69), 1043-1057. (S. R. Foguel) 39 #3589

Geometric theory of a single Markov operator. *Pacific J. Math.* 27 (1968), 155-166. (S. R. Foguel) 39 #1630

Smoothing in $C(X)$. *Proc. Amer. Math. Soc.* 21 (1969), 490-492. (S. R. Foguel) 39 #408

A note on rays at the identity operator. *Proc. Amer. Math. Soc.* 23 (1969), 546-547. (K. K. Oberai) 40 #792

A mean ergodic theorem. *Proc. Amer. Math. Soc.* 24 (1970), 438-439. (R. A. Hirschfeld) 40 #5825

Sinel'nikova, N. I.

Certain chord distortion type problems on classes of schlicht functions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 189 (1966), 184-193. (Z. Lewandowski) 37 #2975

Sinervo, Jyrki

(with Blomberg, Hans; Halme, Aarne; Ylinen, Raimo) On algebraic methods in systems theory. *Acta Polytech. Scand. Math. and Comput. Mach. Ser. No.* 19 (1969), 43 *pp.* (J. Willems) 42 #2826

Sinëv, E. A.

Simultaneous orthogonality of functions on a region and on its boundary. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 158-160. (A. Peyerimhoff) 32 #1334

Sing, P. See Singh, Pratap.

Singal, Asha Rani

(with Singal, M. K.) A note on almost-countably paracompact spaces. *Proc. Japan Acad.* 43 (1967), 856-857. (C. R. Borges) 37 #5850

(with Singal, M. K.) On almost $\mathfrak{M}$-compact spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 82 (1968), 233-242. (S. T. Lin) 38 #5173

(with Singal, M. K.) Almost-continuous mappings. *Yokohama Math. J.* 16 (1968), 63-73. (W. A. Mahavier) 41 #6182

(with Singal, M. K.) On $(\mathfrak{M}, \mathfrak{N})$-paracompact spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 215-228. (E. P. Rozycki) 41 #1003

(with Singal, M. K.) Some more separation axioms in bitopological spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 84 (1970), 207-230. (Anne K. Steiner) 42 #2421

Remarks on separation axioms. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur,* 1968*), pp.* 265-296. *Academia, Prague,* 1971. (Author's summary) 43 #3990

Singal, M. K.

Normal curvature of a vector field in a hypersurface V_n imbedded in a Riemannian V_{n+1}. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 275-280. 29 #6448

(with Datta, D. K.) Generalization of Bonnet's formula for a subspace of a generalized Riemann space. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 81-86. 30 #3433

(with Singal, Asha Rani) A note on almost-countably paracompact spaces. *Proc. Japan Acad.* 43 (1967), 856-857. (C. R. Borges) 37 #5850

(with Singal, Asha Rani) On almost $\mathfrak{M}$-compact spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 82 (1968), 233-242. (S. T. Lin) 38 #5173

(with Singal, Asha Rani) Almost-continuous mappings. *Yokohama Math. J.* 16 (1968), 63-73. (W. S. Mahavier) 41 #6182

(with Singal, Asha Rani) On $(\mathfrak{M}, \mathfrak{N})$-paracompact spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 215-228. (E. P. Rozycki) 41 #1003

(with Mathur, Asha) On nearly-compact spaces. *Boll. Un. Mat. Ital.* (4) 2 (1969), 702-710. (R. Arens) 41 #2628

(with Arya, Shashi Prabha) On almost-regular spaces. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 89-99. (C. E. Aull) 39 #4804

(with Arya, Shashi Prabha) On nearly paracompact spaces. *Mat. Vesnik* 6(21) (1969), 3-16. (C. E. Aull) 41 #4486

(with Arya, Shashi Prabha) On $\mathfrak{m}$-paracompact spaces. *Math. Ann.* 181 (1969), 119-133. (K. Nagami) 39 #7560

$\mathfrak{m}$-paracompact spaces. *Math. Student* 36 (1968), 76-86 (1969). (J. E. Vaughan) 41 #7630

(with Arya, Shashi Prabha) On mildly paracompact spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 84 (1970), 21-35. (C. E. Aull) 41 #7631

(with Singal, Asha Rani) Some more separation axioms in bitopological spaces. *Ann. Soc. Sci. Bruxelles Sér. I* 84 (1970), 207-230. (Anne K. Steiner) 42 #2421

(with Arya, Shashi Prabha) Almost normal and almost completel regular spaces. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 141-152. (C. E. Aull) 43 #1111

(with Arya, Shashi Prabha) Two sum theorems for topological spaces. *Israel J. Math.* 8 (1970), 155-158. (G. L. Cain, Jr.) 41 #7612

(with Arya, Shashi Prabha) A note on order paracompactness. *Bull. Austral. Math. Soc.* 4 (1971), 273-279. (C. E. Aull) 43 #267

Singal, R. P.

Certain sums of double hypergeometric series. *Rend. Sem. Mat. Univ. Padova* 41 (1968), 227-234. (R. K. Saxena) 40 #2917

An expansion of Kampé de Fériet hypergeometric function. *Math. Education* 4 (1970), 90-92. (Author's summary) 42 #4785

Singbal, B. V.

(See Mizohata, Sigeru, 36 #2955 and Lions, J. L., 42 #641)

Singbal-Vedak, K.

A note on semigroups of operators on a locally convex space. *Proc. Amer. Math. Soc.* 16 (1965), 696-702. (G. Maltese) 32 #370

Singer, Arnold

The steady state probabilities of a Markov chain as a function of the transition probabilities. *Operations Res.* 12 (1964), 498-499. (D. Austin) 29 #2861

A random walk in which absorption takes place at the second visit to a point. *Bull. Soc. Math. Belg.* 17 (1965), 27-36. (J. L. Doob) 31 #4093

Singer, Burton

Some asymptotic results in a model of population growth. I. A class of birth and death processes. *Ann. Math. Statist.* 41 (1970), 115-132. (C. Stone) 41 #4675

(with Brezis, H.; Rosenkrantz, W.) An extension of Khintchine' estimate for large deviations to a class of Markov chains converging to a singular diffusion. *Bull. Amer. Math. Soc.* 77 (1971), 980-982. (T. Kawata) 44 #6050

(with Brezis, H.; Rosenkrantz, W.) On a degenerate elliptic-parabolic equation occurring in the theory of probability. With appendiz by Peter D. Lax. *Comm. Pure Appl. Math.* 24 (1971), 395-416. (R. Hersh) 44 #1941

Singer, F. Richard

Some Sheffer functions for M-valued logics. *Scripta Math.* 28, 21-27 (1967). (A. Rose) 35 #6527

Singer, Isadore M.

(with Sternberg, Shlomo) The infinite groups of Lie and Cartan. I. The transitive groups. *J. Analyse Math.* 15 (1965), 1-114. (M. Kuranishi) 36 #911

(with Guillemin, Victor) Differential equations and G-structures. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 34-36. *Nippon Hyoronsha, Tokyo,* 1966. (W. F. Pohl) 35 #4840

* (with Thorpe, John A.) Lecture notes on elementary topology and geometry. *Scott, Foresman and Co., Glenview, Ill.,* 1967. v + 214 *pp.* (J. W. Smith) 35 #4834

(with McKean, H. P., Jr.) Curvature and the eigenvalues of the Laplacian. *J. Differential Geometry* 1 (1967), 43-69. (J. Eells) 36 #828

(with Atiyah, M. F.) The index of elliptic operators. I. *Ann. of Math.* (2) 87 (1968), 484-530. (F. Hirzebruch) 38 #5243

(with Atiyah, M. F.) The index of elliptic operators. III. *Ann. of Math.* (2) 87 (1968), 546-604. (F. Hirzebruch) 38 #5245

(with Atiyah, M. F.) The index of elliptic operators. I. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 5 (143), 99-142. (Editors) 38 #727

(with Thorpe, J. A.) The curvature of 4-dimensional Einstein spaces. *Global Analysis (Papers in Honor of K. Kodaira), pp.* 355-365. *Univ. Tokyo Press, Tokyo,* 1969. (K. Nomizu) 41 #959

Elliptic operators on manifolds. *Pseudo-Diff. Operators (C.I.M.E., Stresa, 1968)*, 333-375. *Edizioni Cremonese, Rome*, 1969. (H. Kumano-go) 41 #7317

(with Atiyah, M. F.) Index theory for skew-adjoint Fredholm operators. *Inst. Hautes Études Sci. Publ. Math. No.* 37 (1969), 5-26. (F. Hirzebruch) 44 #2257

(with Atiyah, M. F.) The index of elliptic operators. III. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 1 (145), 127-182. (Editors) 41 #1073

(with Atiyah, M. F.) The index of elliptic operators. IV. *Ann. of Math.* (2) 93 (1971), 119-138. (F. Hirzebruch) 43 #5554

(with Atiyah, M. F.) The index of elliptic operators. V. *Ann. of Math.* (2) 93 (1971), 139-149. (F. Hirzebruch) 43 #5555

Singer, Ivan

Bases in Banach spaces. I. (Romanian. Russian and English summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 533-585. (E. R. Lorch) 32 #8121a

On bases in quasi-reflexive Banach spaces. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 309-311. (J. T. Schwartz) 31 #2599

Weak* bases in conjugate Banach spaces. II. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 575-584. (J. T. Schwartz) 31 #2600

Completeness and aw^*-topologies. *Arch. Math.* 15 (1964), 42-45. (Victor Klee) 29 #2632

A proof of the Dvoretzky-Rogers theorem. *Israel J. Math.* 2 (1964), 249-250. (A. Dvoretzky) 31 #6115

Weak compactness, pseudo-reflexivity and quasi-reflexivity. *Math. Ann.* 154 (1964), 77-87. (Victor Klee) 29 #2633

Some remarks on approximative compactness. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 167-177. (R. R. Phelps) 31 #2707

(with Pełczyński, A.) On non-equivalent bases and conditional bases in Banach spaces. *Studia Math.* 25 (1964/65), 5-25. (B. R. Gelbaum) 31 #3831

Bases in Banach spaces. II, III. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 157-208; *ibid.* 16 (1964), 675-725. (E. R. Lorch) 32 #8121b

On the extension of continuous linear functionals and best approximation in normed linear spaces. *Math. Ann.* 159 (1965), 344-355. (T. J. Rivlin) 32 #6194

(with Foiaş, Ciprian) Points of diffusion of linear operators and almost diffuse operators in spaces of continuous functions. *Math. Z.* 87 (1965), 434-450. (L. Nachbin) 31 #5093

On the basis problem in topological linear spaces. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 453-457. (P. Civin) 33 #3081

(with Foiaş, Ciprian) On bases in $C([0,1])$ and $L^1([0,1])$. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 931-960. (A. Pełczyński) 34 #6509

A remark on reflexivity and summability. *Studia Math.* 26 (1965), 113-114. (S. Sakai) 32 #4518

Some remarks on best approximation in normed linear spaces. II. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 799-807. (L. M. Graves) 34 #1832

Extremal points, Choquet boundary and best approximation. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1173-1185. (D. E. Wulbert) 35 #4705

* Cea mai bună aproximare în spaţii vectoriale normate prin elemente din subspaţii vectoriale. (Romanian) [Best approximation in normed vector spaces by elements of vector subspaces] *Editura Academiei Republicii Socialiste România, Bucharest*, 1967. 386 *pp.* (J. Horváth) 38 #3677; erratum, 39, p. 1594

Some open problems on best approximation in normed linear spaces. *Séminaire Choquet:* 1966/67, *Initiation à l'Analyse, Fasc.* 2, *Exp.* 12, 8 *pp. Secrétariat mathématique, Paris*, 1968. (Editors) 38 #3678

On a theorem of N. K. Bari and I. M. Gelfand. *Arch. Math. (Basel)* 19 (1968), 508-510. (M. M. Day) 39 #762

(with Davis, William J.; Dean, David W.) Complemented subspaces and Λ systems in Banach spaces. *Israel J. Math.* 6 (1968), 303-309. (J. T. Marti) 38 #2576

On the constants of basic sequences in Banach spaces. *Studia Math.* 31 (1968), 125-134. (A. Pełczyński) 38 #6338

Some remarks and problems on bases in Banach spaces. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach, 1968), pp.* 130-139. *Birkhäuser, Basel*, 1969. (A. Pełczyński) 41 #4211

(with McArthur, C. W.; Levin, Mark) On the cones associated with biorthogonal systems and bases in Banach spaces. *Canad. J. Math.* 21 (1969), 1206-1217. (J. A. R. Holbrook) 41 #4207

A note on the norm in the spaces $L_\infty(S,\mu)$. (Slovak) *Časopis Pěst. Mat.* 94 (1969), 355-357. (Z. Diviš) 41 #5960

(with Deutsch, Frank; Morris, Peter D.) On a problem of T. J. Rivlin in approximation theory. *J. Approximation Theory* 2 (1969), 342-354. (E. W. Cheney) 40 #7691

Remark on a paper of Y. Ikebe. *Proc. Amer. Math. Soc.* 21 (1969), 24-26. (D. E. Wulbert) 38 #6291

* Best approximation in normed linear spaces by elements of linear subspaces. Translated from the Romanian by Radu Georgescu. Die Grundlehren der mathematischen Wissenschaften, Band 171. *Publishing House of the Academy of the Socialist Republic of Romania, Bucharest; Springer-Verlag, New York-Berlin*, 1970. 415 *pp.* (Editors) 42 #4937

Some remarks on domination of sequences. *Math. Ann.* 184 (1970), 113-132. (J. T. Marti) 40 #6237

(with Dean, David W.; Lin, Bor-luh) On k-shrinking and k-boundedly complete bases in Banach spaces. *Pacific J. Math.* 32 (1970), 323-331. (K. Gęba) 42 #3545

Singer, James

* Elements of numerical analysis. Academic Press Textbooks in Mathematics. *Academic Press, New York-London*, 1964. x + 395 *pp.* (L. Fox) 29 #2932

Perfect difference sets. *Trans. New York Acad. Sci.* (2) 28 (1965/66), 883-888. (J. B. Kelly) 43 #6112

Some remarks on the early history of combinatorial analysis. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 354-362. (J. Riordan) 44 #98

Singer, Josef

(with Baruch, Menachem) Buckling of circular conical shells under combined torsion and external or internal pressure. *Topics in Applied Mechanics, pp.* 65-88. *Elsevier, Amsterdam*, 1965. (R. P. Nordgren) 31 #6434

Singer, Michael

Invertible powers of ideals over orders in commutative separable algebras. *Proc. Cambridge Philos. Soc.* 67 (1970), 237-242. (D. C. Murdoch) 40 #5599

A product theorem for ideals over orders. *Proc. Cambridge Philos. Soc.* 68 (1970), 17-20. (D. C. Murdoch) 42 #248

Singer, Paul

(with Kacser, Claude; Truong, Tran N.) Study of K_{e4} decays. *Phys. Rev.* (2) 137 (1965), B1605-B1620. (G. Barton) 32 #3582

Singer, Robert A.

(with Frost, Paul A.) On the relative performance of the Kalman and Wiener filters. *IEEE Trans. Automatic Control* AC-14 (1969), 390-394. (F. J. Beutler) 40 #5330

(with Sea, Ronald G.) Increasing the computational efficiency of discrete Kalman filters. *IEEE Trans. Automatic Control* AC-16 (1971), 254-257. (Richard Gran) 44 #4863

Singer, William M.

Connective fiberings over *BU* and *U*. *Bull. Amer. Math. Soc.* 73 (1967), 897-898. (M. N. Dyer) 36 #2151

Connective fiberings over *BU* and *U*. *Topology* 7 (1968), 271-303. (A. H. Clark) 38 #717

Extension theory for connected Hopf algebras. *Bull. Amer. Math. Soc.* 76 (1970), 1095-1099. (V. K. A. M. Gugenheim) 42 #1879

Singer, Yvan. See Singer, Ivan.

Singerman, David

Subgroups of Fuchsian groups and finite permutation groups. *Bull. London Math. Soc.* 2 (1970), 319-323. (B. Maskit) 43 #7519

Singh, A. Satyabanta. See Satyabanta Singh, A.

Singh, Ajaib

(with Gandhi, J. M.) Fourth interval formulae for the co-efficients of cosh x/cos x. *Monatsh. Math.* 70 (1966), 327-329. (L. Carlitz) 33 #5504

Singh, B. D.

(with Singh, Darogal) Some contributions to two-phase sampling. *Austral. J. Statist.* 7 (1965), 45-47. (Authors' summary) 32 #6631

(with Singh, Daroga) Some remarks on double sampling for stratification. *Biometrika* 52 (1965), 587-590. (R. C. Elandt-Johnson) 34 #6975

(with Singh, Daroga) Double sampling for stratification on successive occasions. *J. Amer. Statist. Assoc.* 60 (1965), 784-792. (Authors' summary) 32 #3238

Singh, Balwant

Unique factorization in power series rings. *Invent. Math.* 3 (1967), 348-355. (P. Samuel) 36 #157

On a conjecture of Samuel. *Math. Z.* 105 (1968), 157-159. (P. Samuel) 37 #4058

Invariants of finite groups acting on local unique factorization domains. *J. Indian Math. Soc. (N.S.)* 34 (1970), 31-38 (1971). (R. M. Fossum) 44 #6669

Singh, Basudeo

Sommabilité logarithmique forte de la série de Fourier et de la série conjuguée. *Bull. Sci. Math.* (2) 88 (1964), 65-111. (G. Sunouchi) 32 #2836

Singh, Bhagat

On certain expansions and integrals involving $\tilde\omega_{\mu,\nu}(x)$. *Proc. Rajasthan Acad. Sci.* 9 (1962), 9-22. (Stanley Katz) 29 #3686

On certain theorems in operational calculus. *J. Sci. Res. Banaras Hindu Univ.* 15 (1964/65), *no.* 2, 173-182. (A. H. Zemanian) 34 #1809

The generalized Erdélyi-Kober operators and self-reciprocal functions. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 117-132. (V. P. Mainra) 32 #6159

On certain integrals involving $\tilde\omega_{\mu,\nu}(X)$. *Mitt. Verein. Schweiz. Versich.-Math.* 65 (1965), 55-62. (Stanley Katz) 31 #5044

Singh, C.

On a convolution transform involving Whittaker's function as its kernel. *Math. Japon.* 13 (1968), 71-74. (Editors) 40 #4702

Inversion integrals for the integral transforms with Bessel function in the kernel. *Riv. Mat. Univ. Parma* (2) 9 (1968), 339-341. (R. P. Soni) 41 #4147

Inversion of a convolution transform with Kelvin's function as kernel. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 279-280. (Z. Ditzian) 44 #734

Singh, Chatter

On the extreme values and range of samples from non-normal populations. *Biometrika* 54 (1967), 541-550. (I. R. Savage) 36 #4755

Singh, D. M.

A few remarks on subspaces of special Kawaguchi spaces. *Progr. Math. (Allahabad)* 1 (1967), *no.* 2, 5-10. (A. Kawaguchi) 37 #5834

(with Sinha, H. C.) Gauss and Codazzi equations in the subspaces of the special Kawaguchi spaces. *Bull. Calcutta Math. Soc.* 60 (1968), 137-141. (S. Ide) 42 #3730

Singh, D. N.

(with Singh, K. P.; Sharan, R.) Non-null electromagnetic fields in certain Riemannian fourfolds. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 1-15. (W. B. Bonnor) 40 #5238

(with Singh, K. P.; Sharan, R.) Scalar differential invariants in general relativity. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 94-102. (W. B. Bonnor) 40 #3886

Singh, Daljit

A method of working out the sum of totals over blocks containing a specified variety in the analysis of a $n \times n$ balanced lattice design. *J. Indian Soc. Agric. Statist.* 14 (1962), 151-156. (H. B. Mann) 29 #1711

Singh, Daroga

(with Singh, B. D.) Some contributions to two-phase sampling. *Austral. J. Statist.* 7 (1965), 45-47. (Authors' summary) 32 #6631

(with Singh, B. D.) Some remarks on double sampling for stratification. *Biometrika* 52 (1965), 587-590. (R. C. Elandt-Johnson) 34 #6975

(with Singh, B. D.) Double sampling for stratification on successive occasions. *J. Amer. Statist. Assoc.* 60 (1965), 784-792. (Authors' summary) 32 #3238

(with Jindal, K. K.; Garg, J. N.) On modified systematic sampling. *Biometrika* 55 (1968), 541-546. (W. A. Ericson) 39 #2280

Estimates in successive sampling using a multi-stage design. *J. Amer. Statist. Assoc.* 63 (1968), 99-112. (J. N. K. Rao) 37 #3726

(with Kathuria, O. P.) On two-stage successive sampling. *Austral. J. Statist.* 11 (1969), 59-66. 41 #2868

Singh, Darshan

Associate, normal, union, hypergeodesic and hyperasymptotic curvatures of higher orders of a vector field with respect to a curve. *Tensor (N.S.)* 17 (1966), 261-265. (T. K. Pan) 34 #1961

Formulae similar to Frenet's formulae for the curvatures of a congruence with respect to a curve. *Vidya* 9 (1966), *no.* 1, 228-229. (F. Şemin) 40 #4890; erratum, 41, p. 1965

Curvatures of a congruence of curves in relation to another congruence. *Vidya* 10 (1967), *no.* 1, 171-178. (Author's summary) 40 #839; erratum, 41, p. 1964.

Singh, Devi

Flow of visco-elastic Maxwell fluid through concentric circular cylinders. *Z. Angew. Math. Mech.* 44 (1964), 330-331. (O. R. Burggraf) 29 #5501

Singh, F.

An integral involving product of G-function, generalised hypergeometric function and Jacobi polynomial. *J. Sci. Engrg. Res.* 12 (1968), 155-160. (R. K. Saxena) 38 #4730

(with Chhabra, S. P.) An integral involving the product of a G-function and a generalized hypergeometric function. *Proc. Cambridge Philos. Soc.* 65 (1969), 479-482. (Brij Mohan) 38 #4731

Application of the E-operator to evaluate an infinite integral. *Proc. Cambridge Philos. Soc.* 65 (1969), 725-730. (P. Anandani) 38 #6121

Singh, H. R.

Producer and consumer risks for asymmetrical test and specification limits. *J. Amer. Statist. Assoc.* 61 (1966), 505-513. (A. K. Gayen) 35 #2439

Producer and consumer risks in non-normal populations. *Technometrics* 8 (1966), 335-343. (W. Uhlmann) 34 #6966

Singh, J.

Bounds for the size of a sometimes pool test procedure. *J. Sci. Res. Banaras Hindu Univ.* 17 (1966/67), *no.* 1, 95-100. (R. J. Buehler) 41 #1159

Distribution of the estimate on the basis of a sometimes pool test procedure. *J. Sci. Res. Banaras Hindu Univ.* 17 (1966/67), *no.* 1, 254-259. 41 #1149

Singh, Jagbir

(with Thompson, W. A., Jr.) The use of limit theorems in paired comparison model building. *Psychometrika* 32 (1967), 255-264. (H. D. Brunk) 36 #1053

(with Thompson, W. A., Jr.) A treatment of ties in paired comparisons. *Ann. Math. Statist.* 39 (1968), 2002-2015. (C. H. Kraft) 38 #6722

Singh, Jodh Pal

On the order and type of entire functions of several complex variables. *Riv. Mat. Univ. Parma* (2) 10 (1969), 111-121. (S. K. Bose) 44 #5507

Singh, K. K.

(with Pathak, R. S.; Narain, A.) Some inversion formulae for the generalized Hankel transforms of two variables. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 235-241. (B. M. Agrawal) 41 #8941

Singh, K. L.

(with Singh, S. P.) On fixed point theorems. *Riv. Mat. Univ. Parma* (2) 8 (1967), 385-389. (Haskell Cohen) 40 #887

On commuting functions and common fixed points. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 185-194 (1969). (B. Margolis) 41 #887a

On fixed points of commuting functions. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 195-202 (1969). (B. Margolis) 41 #887b

Contraction mappings and fixed point theorems. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 34-44. (J. S. W. Wong) 39 #7482

On some fixed point theorems. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 3, 375-382 (1970). (B. Margolis) 43 #1167

On the vanishing of a (G,σ) product in a (G,σ) space. *Canad. J. Math.* 22 (1970), 363-371. (C. M. de Barros) 41 #3507

Singh, K. N.

(with Singh, N. K.) The non-existence of some partially balanced incomplete block designs with three associate classes. *Sankhyā Ser. A* 26 (1964), 239-250. (S. S. Shrikhande) 32 #3231

Singh, K. P.

(with Radhakrishna, L.; Sharan, R.) Electromagnetic fields and cylindrical symmetry. *Ann. Physics* 32 (1965), 46-68. (Gerald Rosen) 33 #2373

(with Sharan, R.) Product of two surfaces in general relativity. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 584-592 (1966). (C. Gilbert) 34 #5483

(with Roy, S. R.) Relation between Weyl tensors in a Riemannian fourfold. *Progr. Math. (Allahabad)* 1 (1967), *no.* 2, 28-31. (T. Banchoff) 38 #3801

(with Sharan, R.; Singh, D. N.) Non-null electromagnetic fields in certain Riemannian fourfolds. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 1-15. (W. B. Bonnor) 40 #5238

(with Sharan, R.; Singh, D. N.) Scalar differential invariants in general relativity. *Proc. Nat. Inst. Sci. India Part A* 35 (1969). 94-102. (W. B. Bonnor) 40 #3886

Singh, Kamla Devi

(with Lane, N. D.) Arcs of conical order five. *J. Reine Angew. Math.* 217 (1965), 109-127. (G. J. Schellekens) 31 #1622

(with Lane, N. D.) Order and characteristic of parabolically differentiable points. *Ann. Mat. Pura Appl.* (4) 71 (1966), 127-164. (P. Scherk) 34 #8308

(with Lane, N. D.) Characteristic and order of conically differentiable points. *J. Reine Angew. Math.* 224 (1966), 164-184. (P. Scherk) 34 #5043

(with Lane, N. D.) Parabolically differentiable functions. *Gaṇita* 18 (1967), *no.* 1, 1-7. (F. A. Sherk) 38 #2683; erratum, 39, p. 1593

(with Lane, N. D.) Union and extension of arcs of cyclic order three. *Canad. J. Math.* 20 (1968), 629-638. (W. F. Pohl) 37 #836

(with Lane, N. D.) Strong cyclic, parabolic and conical differentiability. *Pacific J. Math.* 28 (1969), 583-597. (R. Roşca) 39 #4795

(with Prasad, Muralidhar) On generalizations of pseudo-harmonic and pseudo-Killing vectors. *Ann. Polon. Math.* 23 (1970/71), 215-225. (K. Yano) 42 #5196

Singh, Kehar

(with Jeffreys, Harold) Symmetrical treatment of a case of normal correlation. *Proc. Cambridge Philos. Soc.* 71 (1972), 107-109. (E. S. Keeping) 44 #6096

Singh, M.

(with Pipkin, A. C.) Controllable states of elastic dielectrics. *Arch. Rational Mech. Anal.* 21 (1966), 169-210. (A. E. Green) 32 #8571

Singh, M. P.

Drag of a sphere oscillating in a conducting viscous medium. *Phys. Fluids* 8 (1965), 797-805. (S. I. Pai) 32 #3422

(with Sathi, H. L.) An exact solution in rotating flow. *J. Math. Mech.* 18 (1968/69), 193-200. (K. Stewartson) 37 #4997

Singh, M. P.

On the estimation of ratio and product of the population parameters. *Sankhyā Ser. B* 27 (1965), 321-328. (Author's summary) 34 #5250

On the efficiency of systematic sampling in ratio and product estimation. *Metrika* 11 (1966/67), 199-205. (Author's summary) 36 #2292

The relative efficiency of some two-phase sampling schemes. *Ann. Math. Statist.* 38 (1967), 937-940. (J. Sedransk) 35 #2443

Ratio cum product method of estimation. *Metrika* 12 (1967), 34-42. (D. M. Sandelius) 36 #4768

Singh, Manohar

A linearized theory of nosing of shells. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 535-539. (Author's summary) 29 #4329

Singh, N. K.

(with Shrikhande, S. S.) A note on balanced incomplete block designs. *J. Indian Statist. Assoc.* 1 (1963), 97-101. (E. Seiden) 29 #707

(with Pandey, K. N.) The orthogonal array (98, 15, 7, 2). *J. Sci. Res. Banaras Hindu Univ.* 14 (1963/64), *no.* 2, 34-36. (S. Addelman) 30 #2634

(with Pandey, K. N.) Impossibility of some partially balanced incomplete block designs. *J. Sci. Res. Banaras Hindu Univ.* 14 (1963/64), *no.* 2, 180-188. (S. Addelman) 30 #2635

(with Singh, K. N.) The non-existence of some partially balanced incomplete block designs with three associate classes. *Sankhyā Ser. A* 26 (1964), 239-250. (S. S. Shrikhande) 32 #3231

Singh, Narendra

(with Joshi, S. K.) Phonon dispersion in metals. *Physica* 30 (1964), 2105-2118. (M. J. P. Musgrave) 31 #5641

Singh, Naunihal

(with Krishna Iyer, P. V.) Estimation of parameters from generalised censored normal samples. *J. Indian Soc. Agric. Statist.* 14 (1962), 165-176. (Authors' summary) 29 #693

(with Krishna Iyer, P. V.) Estimation of the mean and the standard deviation of a Type III population from censored samples. *J. Indian Statist. Assoc.* 1 (1963), 161-166. *(1 insert)* (H. D. Brunk) 29 #694

(with Srivastava, S. S.; Garg, R. C.; Kumar, Santosh) Complex system dependability with preemptive priority repairs. *J. Math. Sci.* 4 (1969), 11-18. (L. A. Aroian) 40 #6709

Singh, Niranjan

On $|C,1|_k$ summability factors of Fourier series. *Kōdai Math. Sem. Rep.* 19 (1967), 289-298. (F. C. Hsiang) 36 #4262

On the absolute Cesàro summability of factored Fourier series. *Riv. Mat. Univ. Parma* (2) 8 (1967), 181-188. (G. C. N. Kulshrestha) 42 #4954

On the absolute Cesàro summability factors of Fourier series. (French summary) *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 17-30, v (1969). (B. N. Sahney) 39 #7350

On $|\bar{N},p_n|$ summability factors of infinite series. *Indian J. Math.* 10 (1968), 19-24. (Editors) 38 #1431; erratum, 38, p. 1378

On the absolute Cesaro summability factors of trigonometric series. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 71-75. (U. C. Guha) 38 #4911

Singh, P.

(with Singh, S.) On maximal subgroups and direct products of groups. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 229-232. (D. J. S. Robinson) 40 #2759

Singh, Pratap

On certain theorems relating to the generalised Hankel transform. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 409-420. (Author's summary) 40 #3207

Certain theorems on self-reciprocal functions. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 458-474. (B. R. Bhonsle) 42 #6538

Singh, Prem

On the order and type of an integral function of exponential type defined by Dirichlet series. *Gaṇita* 16 (1965), 15-24. (M. E. Noble) 34 #4498

On the type of integral functions. *Publ. Math. Debrecen* 12 (1965), 1-6. (M. E. Noble) 32 #5881

On the Borel transform of an entire function of exponential type. (Turkish summary) *İstanbul Üniv. Fen Fâk. Mec. Ser. A* 31 (1966), 95-106 (1969). (A. Baillette) 41 #5622

(with Srivastava, R. S. L.) On the λ-type of entire functions of irregular growth defined by Dirichlet series. *Monatsh. Math.* 70 (1966), 249-255. (M. E. Noble) 34 #1505

(with Srivastava, R. S. L.) On the λ-type of an entire function of irregular growth. *Arch. Math. (Basel)* 17 (1966), 342-346. (Hari Shankar) 35 #1779

(with Juneja, O. P.) On the lower order of an entire function defined by Dirichlet series. *Math. Ann.* 184 (1969), 25-29. (M. E. Noble) 40 #7448

(with Juneja, O. P.) On the maximum term and the proximate order of an entire function. *Riv. Mat. Univ. Parma* (2) 10 (1969), 171-179. (M. Nassif) 44 #6960

(with Juneja, O. P.) On the growth of an entire series with gaps. *J. Math. Anal. Appl.* 30 (1970), 330-334. (Fred Gross) 40 #7451

Singh, R. N. P.

Functional analysis approach to optimal control problems with multiple constraints on the controlling function. *Internat. J. Control* (1) 9 (1969), 89-101. (D. F. Lawden) 42 #5684

Minimal time control of linear-distributed systems with a composite-norm constraint. *Internat. J. Control* (1) 12 (1970), 369-375. (Author's summary) 42 #7349

Singh, R. P.

(with Srivastava, K. N.) A note on generalization of Laguerre and Humbert polynomials. *Ricerca (Napoli)* (2) 14 (1963), *settembre-dicembre,* 11-21; *errata, ibid.* (2) 15 (1964), *maggio-agosto,* 63. 31 #3648

A note on Gegenbauer and Laguerre polynomials. *Math. Japon.* 9 (1964), 1-4. (Mary L. Boas) 31 #394

Some polynomials of Srivastava related to the Laguerra polynomials. *Math. Japon.* 9 (1964), 5-9. (C. J. Bouwkamp) 30 #5004

A note on double transformations of certain hypergeometric functions. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 221-227. (W. A. Al-Salam) 32 #233

Some integrals involving the product of the orthogonal polynomials and their derivatives. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 169-174. (Y. L. Luke) 36 #1908

Some polynomials related to the generalized Laguerre polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 217-224. (H. M. Srivastava) 36 #4041

Associated Legendre functions. *Proc. Nat. Acad. Sci. India Sect. A* 35 (1965), 207-213. (S. K. Chatterjea) 34 #2963

Operational formulae for Jacobi and other polynomials. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 237-244. (S. K. Chatterjea) 32 #5952

A short note on generalized Hermite function. *Math. Student* 34 (1966), 29-30. (S. K. Chatterjea) 36 #439

An integral equation involving generalized Legendre polynomials. *Math. Student* 35 (1967), 81-84 (1969). (H. E. Fettis) 40 #6215

On generalized Truesdell polynomials. *Riv. Mat. Univ. Parma* (2) 8 (1967), 345-353. (R. C. Varma) 42 #6317

A note on generalized Legendre polynomials. *Math. Student* 36 (1968), 185-188 (1969). (B. R. Bhonsle) 41 #8727

Some polynomials related to the generalized Laguerre polynomials. *Rev. Mat. Hisp.-Amer.* (4) 28 (1968), 128-136. (M. J. O. Strutt) 38 #4736

(with Shrivastava, P. N.) A note on Hermite polynomials. *Math. Student* 37 (1969), 218-220. (S. K. Chatterjea) 42 #2071

Singh, Raghu Nath

(with Kumari, Sulaxana) On the behaviour of the Cesàro means of a Fourier series. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 216-228 (1966). (A. Meir) 33 #4589

Singh, Rajeshwar Prasad

(with Sinha, K. D. P.) Investigation of secondary flow and the related instability on an infinite yawed cylinder with Schubauer's ellipse as section. *Proc. Indian Acad. Sci. Sect. A* 60 (1964), 219-241. (W. R. Sears) 30 #4448

Singh, Rajinder

Existence of unbiased estimates. *Sankhyā Ser. A* 26 (1964), 93-96. (Author's summary) 30 #2602

(with Ghosh, J. K.) Unbiased estimation of location and scale parameters. *Ann. Math. Statist.* 37 (1966), 1671-1675. (J. Kiefer) 34 #2111

Non-existence of estimates of prescribed accuracy in fixed sample size. *Canad. Math. Bull.* 11 (1968), 135-139. (M. Katz) 38 #812

(with Ghosh, J. K.) Estimation of the reciprocal of scale parameter of a gamma density. *Ann. Inst. Statist. Math.* 22 (1970), 51-63. 42 #3903

Singh, Ram

On a class of star-like functions. *Compositio Math.* 19, 78-82 (1967). (M. Reade) 36 #5325 (E)

A sort of converse of a theorem of Strohacker. *Gaṇita* 18 (1967), *no.* 1, 13-16. (H. Tietz) 39 #428; erratum, 39, p. 1594

A covering theorem for bounded convex schlicht functions. *Gaṇita* 18 (1967), *no.* 2, 67-70. (T. Kubo) 39 #5786

On a class of starlike functions. II. *Gaṇita* 19 (1968), *no.* 2, 103-110. (M. Reade) 41 #3741

On a class of star-like functions. *J. Indian Math. Soc. (N.S.)* 32 (1968), 207-213 (1969). (E. P. Merkes) 41 #1993

Correction: "On a class of starlike functions". *Compositio Math.* 21 (1969), 230-231. (Editors) 39 #7084

Meromorphic close-to-convex functions. *J. Indian Math. Soc. (N.S.)* 33 (1969), 13-20. (R. J. Libera) 41 #3742

A note on spiral-like functions. *J. Indian Math. Soc. (N.S.)* 33 (1969), 49-55. (M. S. Robertson) 41 #454

Radius of convexity of partial sums of a certain power series. *J. Austral. Math. Soc.* 11 (1970), 407-410. (F. Herzog) 43 #7616

Some classes of regular univalent functions. *Rev. Mat. Hisp.-Amer.* (4) 30 (1970), 109-114. (Ch. Pommerenke) 43 #2208

Singh, Rattan

Two theorems on H-function of Fox. *Proc. Nat. Acad. Sci. India Sect. A* 38 (1968), 155-160. (Author's summary) 40 #5923

On some results involving H-function on Fox. *Proc. Nat. Acad. Sci. India Sect. A* 38 (1968), 240-250. (Author's summary) 41 #3829

On Fox H-transform in two variables. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 149-160. (D. Myers) 43 #7871

Singh, Ravindra

(with Sukhatme, B. V.) Optimum stratification. *Ann. Inst. Statist. Math.* 21 (1969), 515-528. (Author's summary) 41 #2869

Singh, S.

(with Singh, P.) On maximal subgroups and direct products of groups. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 229-232. (D. J. S. Robinson) 40 #2759

Singh, S. N.

Inflated Poisson distribution. *J. Sci. Res. Banaras Hindu Univ.* 13 (1962/63), 317-326. (A. C. Cohen) 29 #2883

A chance mechanism of the variation in the number of births per couple. *J. Amer. Statist. Assoc.* 63 (1968), 209-213. (From the author's introduction) 36 #7225

Singh, S. P.

(with Sinha, B. B.) On recurrent spaces of second order in Finsler spaces. *Yokohama Math. J.* 18 (1970), 27-32. (K. Takano) 43 #1102

(with Sinha, B. B.) A generalization of Gauss and Codazzi equations for Berwald's curvature tensor. *Tensor (N.S.)* 22 (1971), 112-116. (E. Bompiani) 43 #5472

Singh, S. P.

Certain recurrence relations. *Gaṇita* 13 (1962), 1-8. (V. P. Mainra) 29 #6076

Certain kernel functions. *J. Sci. Res. Banaras Hindu Univ.* 13 (1962/63), 252-266. (V. P. Mainra) 29 #434

Some properties of a generalised Laplace transform. *J. Sci. Res. Banaras Hindu Univ.* 13 (1962/63), 344-360. (G. Doetsch) 29 #2604

On generalised Hankel transform and self reciprocal functions. *Gaṇita* 14 (1963), 22-42. (Stanley Katz) 29 #5067

On kernel functions. *Gaṇita* 14 (1963), 105-113. (Stanley Katz) 29 #5068

A property of self-reciprocal functions. *Gaṇita* 15 (1964), 9-18. (G. Doetsch) 32 #6162

Two theorems on the generalised Hankel transform. *Gaṇita* 15 (1964), 75-83. (B. R. Bhonsle) 35 #5867

Some theorems on a generalised Hankel transform. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 5-10. (H. Kober) 36 #4278

A theorem on generalised Meijer-Laplace transform. *J. Sci. Res. Banaras Hindu Univ.* 17 (1966/67), *no.* 1, 154-162. (V. P. Mainra) 40 #7740

Two theorems on generalized Meijer-Laplace transform. *Riv. Mat. Univ. Parma* (2) 7 (1966), 115-125. (V. M. Bhise) 37 #5619

Infinite integrals involving G-functions. *Riv. Mat. Univ. Parma* (2) 7 (1966), 225-235. (V. M. Bhise) 37 #5620

On the resultant of two kernels. *Proc. Nat. Inst. Sci. India Part A* 33 (1967), 221-230. (K. R. Unni) 39 #4613

A note on a fixed point theorem. *Riv. Mat. Univ. Parma* (2) 8 (1967), 161-162. (B. Margolis) 40 #3532

(with Singh, K. L.) On fixed point theorems. *Riv. Mat. Univ. Parma* (2) 8 (1967), 385-389. (Haskell Cohen) 40 #887

On a fixed point theorem in metric space. *Delta (Waukesha)* 1 (1968/70), *no.* 4, 17-20. (M. A. Geraghty) 42 #8471

A note on k-transforms. *Riv. Mat. Univ. Parma* (2) 9 (1968), 195-201. (B. M. Agrawal) 41 #5899

On a theorem of Sonnenschein. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 413-414. (J. E. West) 43 #5516

Sequence of mappings and fixed points. *Ann. Soc. Sci. Bruxelles Sér. I* 83 (1969), 197-201. (S. B. Nadler, Jr.) 41 #2638

(with Russell, W.) A note on a sequence of contraction mappings. *Canad. Math. Bull.* 12 (1969), 513-516. (J. S. W. Wong) 40 #2049

Some results on fixed point theorems. *Yokohama Math. J.* 17 (1969), 61-64. (W. A. Kirk) 41 #2488

On a fixed point theorem in metric space. *Rend. Sem. Mat. Univ. Padova* 43 (1970), 229-232. (L. F. Guseman, Jr.) 43 #5517

Some theorems on fixed points. *Yokohama Math. J.* 18 (1970), 23-25. (W. A. Kirk) 43 #4016

Singh, Sahib

Bounds of cubic residues in A.P. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 2, 265-268. (K. S. Williams) 41 #8332

Bounds of quadratic residues in arithmetic progression. *J. Number Theory* 2 (1970), 162-167. (W. H. Mills) 41 #3375

Singh, Sahjendra N.

(with Sarma, V. V. S.) Controllability and sensitivity. *IEEE Trans. Automatic Control* AC-14 (1969), 782-783. (Authors' summary) 42 #8989

(with Deekshatulu, B. L.; Sarma, V. V. S.) Game theoretic approach to minimum-effort control of second-order system. *Internat. J. Control* (1) 9 (1969), 569-576. (Authors' summary) 39 #3869

(with Deekshatulu, B. L.; Sarma, V. V. S.) A differential game problem—plant with zeros in transfer function. *Internat. J. Control* (1) 9 (1969), 577-584. (Authors' summary) 39 #3870

(with Deekshatulu, B. L.; Sarma, V. V. S.) Singular optimal control in the presence of uncertainty—a game theoretic approach. *Internat. J. Control* (1) 9 (1969), 585-595. (Authors' summary) 39 #3871

Singh, Sarva Jit

(with Ben-Menahem, Ari) On the summation of certain Legendre series. *J. Engrg. Math.* 2 (1968), 275-282. (S. M. Shah) 38 #348

Singh, Shaligram

* Fundamental concepts of real analysis. Vol. I. *Bharati Bhawan Patna*, 1967. iv + 118 *pp.* (S. Roy Schubert) 38 #277

The natural number arithmetic in Goedel's axiomatic set theory. *Proc. Nat. Acad. Sci. India Sect. A* 37 (1967), 221-228. (Walter Oberschelp) 41 #6684

Singh, Sheo Ram

On the absolute Riesz summability factors of infinite series. *Mat. Vesnik* 5(20) (1968), 311-312. *(Loose erratum)* (W. Beekmann) 38 #4851

(with Lal, S. N.) On the absolute summability factors in infinite series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 711-714. (F. P. Cass) 41 #682

On the absolute Nörlund summability factors of infinite series *Proc. Amer. Math. Soc.* 25 (1970), 684-689. (B. D. Malviya) 41 #229

Singh, Shri Krishna

A note on a theorem of Fabry. *J. Karnatak Univ. Sci.* 9-10 (1964/65), 163-164. (Editors) 32 #2563

A note on entire functions of finite order. *J. Karnatak Univ. Sci.* 9-10 (1964/65), 165-168. (Hari Shankar) 32 #7747

(with Manjanathaiah, K.) On exceptional values of meromorphic functions. *Publ. Math. Debrecen* 11 (1964), 18-22. (W. H. J. Fuchs 30 #2149

(with Gopalkrishna, H. S.) Automorphism group of the unit disk $|z|<1$. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 30 (1965), 41-44 (1968). (Authors' summary) 38 #6041

(with Sreenivasulu, V.) A note on entire functions. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 30 (1965), 71-75 (1968). (A. R. Reddy) 38 #6071

Entire and meromorphic functions. *J. Karnatak Univ. Sci.* 11 (1966), 211-232. (S. M. Shah) 35 #4424

Exceptional values of entire and meromorphic functions. *Math. Student* 34 (1966), 131-136 (1968). (Editors) 37 #4263

Singh, Subah Jai

(See Kary-Nijazov, T. N., 35 #8)

Singh, Sudarshan Pal

A note on inversion of linear systems. *IEEE Trans. Automatic Control* AC-15 (1970), 492-493. (J. D. Hwang) 43 #8409

Singh, Surendra Pratap

(with Sinha, B. B.) On recurrent spaces of second order in Finsler spaces. *Yokohama Math. J.* 18 (1970), 27-32. (K. Takano) 43 #1102
}

Singh, Surjeet

(with Jain, S. K.) On pseudo injective modules and self pseudo injective rings. *J. Math. Sci.* 2 (1967), 23-31. (Y. Utumi) 36 #2649

On tertiary radicals of an ideal in a ring. *Riv. Mat. Univ. Parma* (2) 8 (1967), 291-296. (E. M. Patterson) 40 #1421

On pseudo-injective modules. *Riv. Mat. Univ. Parma* (2) 9 (1968), 59-65. (C. J. Penning) 41 #5412

(with Jain, S. K.) Rings having one-sided ideals satisfying a polynomial identity. *Arch. Math. (Basel)* 20 (1969), 17-23. (L. P. Belluce) 39 #5627

(with Jain, S. K.; Mohamed, S. H.) Rings in which every right ideal is quasi-injective. *Pacific J. Math.* 31 (1969), 73-79. (D. C. Murdoch) 40 #4304

(with Wasan, Kamlesh) Commutative self-injective rings. *Canad. J. Math.* 22 (1970), 1101-1108. (Y. Utumi) 42 #1817

(with Wasan, Kamlesh) Pseudo-injective modules over commutative rings. *J. Indian Math. Soc. (N.S.)* 34 (1970), 61-65 (1971). (M. Teply) 44 #6676

Principal ideals and multiplication rings. *J. London Math. Soc.* (2) 3 (1971), 311-320. (J. L. Mott) 43 #197

Singh, Tarkeshwar

Nörlund summability of Fourier series and its conjugate series. *Ann. Mat. Pura Appl.* (4) 64 (1964), 123-132. (G. Sunouchi) 29 #3824

The (L) summability of double Fourier series. *Ann. Mat. Pura Appl.* (4) 66 (1964), 129-136. (F. C. Hsiang) 30 #2291

Absolute Nörlund summability of Fourier series. *Indian J. Math.* 6 (1964), 129-136. (G. Sunouchi) 31 #3790

Absolute Nörlund summability of a factored Fourier series. *Indian J. Math.* 9 (1967), 227-236. (G. Sunouchi) 37 #5604

Singh, U. N.

Professor B. N. Prasad. *Indian J. Math.* 9 (1967), i-xvii. (Editors) 37 #3900

Singh, U. P.

(with Mishra, R. S.) On the union curvature of a curve of a Finsler space. *Tensor (N.S.)* 17 (1966), 205-211. (H. Rund) 32 #8291

(The sign } indicates an entry in the supplement.)

(with Mishra, R. S.) Erratum: "On the union curvature of a Finsler space". *Tensor (N.S.)* 17 (1966), 327. (Editors) 33 #6562

On union curve and union curvature of a vector field at points of the curve of a Finsler space. *Bull. Calcutta Math. Soc.* 59 (1967), 31-35. (R. Roşca) 40 #6475

On pseudogeodesic and relative parallelism in Finsler spaces. *Bull. Calcutta Math. Soc.* 59 (1967), 119-125. (S. Ide) 41 #4463

Hypernormal curves of a Finsler subspace. *Progr. Math. (Allahabad)* 1 (1967), *no.* 1, 44-47. (A. Kawaguchi) 35 #6113

On Δ-principal directions and minimal hypersurfaces of a Finsler space. *Proc. Math. Phys. Soc. U.A.R. (Egypt) No.* 31 (1967), 27-34 (1969). (E. Bompiani) 41 #6140

(with Mishra, R. S.) The generalisation of the first curvature of a curve of a subspace of a Finsler space. *Rend. Circ. Mat. Palermo* (2) 16 (1967), 33-38. (H. Rund) 39 #2107

On relative associate curvature of a vector-field and relative parallelism in Finsler spaces. *J. Indian Math. Soc. (N.S.)* 32 (1968), 229-242 (1969). (M. Stoka) 41 #6141

On union curves and pseudogeodesics in Finsler spaces. *Univ. Nac. Tucumán Rev. Ser. A* 18 (1968), 35-41. (T. K. Pan) 39 #905

On hyper Darboux lines in Riemannian subspaces. *Tensor (N.S.)* 20 (1969), 1-4. (C. B. Allendoerfer) 39 #3402

On relative Gauss characteristic equations and relative Ricci principal directions of a Riemannian hypersurface. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 111-117. (J. R. Vanstone) 40 #7995

(with Prasad, Baij Nath) The Bianchi and Veblen identities in Finsler space. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 1100-1109. (J. K. Beem) 44 #3265

On union curves and pseudo-geodesics in Finsler spaces (from the standpoint of Cartan's Euclidean connection). *Bull. Calcutta Math. Soc.* 62 (1970), 165-172. (S. Gołąb) 44 #3264

The curvature of a congruence relative to a vector-field of a Finsler hypersurface. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 3, 341-346. (S. Ide) 42 #2412

On special, union and hyperasymptotic curves of a Riemannian hypersurface. *Tensor (N.S.)* 22 (1971), 15-18. (G. Tsagas) 43 #5462

Singh, V.

An aspect of local property of the absolute summability of the conjugate series of the *r*-th derived series of Fourier series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 739-744. (B. N. Sahney) 41 #723

An aspect of local property of absolute summability of the conjugate series of the derived Fourier series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 461-465. (T. Pati) 42 #6506

On the summation of the conjugate series of the derived Fourier series by Borel's integral method. *Univ. Allahabad Studies (N.S.)* 2 (1970), *no.* 3, 191-199. (H. P. Dikshit) 43 #6658

Singh, V. N.

(See Vilenkin, N. Ja., 37 #5429)

Singh, Vijendra P.

Two-server Markovian queues with balking: Heterogeneous vs. homogeneous servers. *Operations Res.* 18 (1970), 145-159. (R. Fischler) 42 #3884

Singh, Vikramaditya

(with Goel, R. M.) On radii of convexity and starlikeness of some classes of functions. *J. Math. Soc. Japan* 23 (1971), 323-339. (D. E. Tepper) 43 #7617

Singh, Virendra

(with Bég, Mirza A. Baqi) Splitting of spin-unitary spin supermultiplets. *Phys. Rev. Lett.* 13 (1964), 418-421. (S. L. Glashow) 31 #1050

(with Bég, Mirza A. Baqi) Splitting of the 70-plet of SU(6). *Phys. Rev. Lett.* 13 (1964), 509-511. (Y. Ne'eman) 30 #3711

(with Balázs, L. A. P.; Udgaonkar, B. M.) Reciprocal bootstrap possibilities for baryons. *Phys. Rev.* (2) 139 (1965), B1313-B1318. (P. Tarjanne) 32 #5169

(with Udgaonkar, Bhalchandra M.) Baryon bootstrap possibilities in SU(6). *Phys. Rev.* (2) 139 (1965), B1585-B1587. (P. Tarjanne) 32 #5170

SU(9) symmetry of baryons and mesons. *Phys. Rev. Lett.* 15 (1965), 271-274. (From the author's summary) 32 #5230

(with Mani, H. S.; Mohan, Gyan; Pande, Lalit K.) SU(*n*) crossing matrices for baryon-meson scattering. *Ann. Physics* 36 (1966), 285-307. (H. M. Goldberg) 33 #1059

Lie group of the strong-coupling theory. I. Calculation of the coupling-constant ratios and magnetic moments for symmetric pseudoscalar-meson theory. *Phys. Rev.* (2) 144 (1966), 1275-1279. (S. N. Biswas) 34 #3943

(with Roy, S. M.) Upper bounds on the elastic differential cross section. *Ann. Physics* 57 (1970), 461-480. (F. Calogero) 41 #7963

(with Roy, S. M.) Upper bounds on particle-antiparticle total cross section differences at high energies. *Phys. Lett.* 32B (1970), 50-54. (F. C. Auluck) 43 #1544

High-energy bounds on scattering amplitudes and oscillations in the diffraction-peak region. *Phys. Rev. Lett.* 26 (1971), 530-534. (G. Barton) 44 #6250

Singh, Y. P.

On generalised Hankel transform $\omega_{u_1,\ldots,u_n}(x)$. *J. Sci. Res. Banaras Hindu Univ.* 16 (1965/66), *no.* 1, 91-100. (R. A. Askey) 35 #6877

On generating functions. *J. Birla Inst. Tech. and Sci. Pilani* 1 (1967), 91-96. (P. Anandani) 38 #6122

(with Srivastava, T. N.) On Maitland's generalised Bessel function. *Canad. Math. Bull.* 11 (1968), 739-741. (F. W. J. Olver) 40 #654

The asymptotic behavior of solutions of linear third order differential equations. *Proc. Amer. Math. Soc.* 20 (1969), 309-314. (M. E. Muldoon) 38 #6164

Some oscillation theorems for third order non-linear differential equations. *Yokohama Math. J.* 18 (1970), 77-86. (H. A. DeKleine) 44 #533

Singh, Yogeshwar

(with Warke, C. S.) Generalizations of the Jost-Pais theorem for nonlocal potentials. (French summary) *Canad. J. Phys.* 49 (1971), 1029-1034. (F. C. Auluck) 43 #7159

Singhai, B. C.

(with Choudhary, Y. K.) Normality axioms. *Rev. Un. Mat. Argentina* 24 (1968/69), 155-158. (C. R. Borges) 41 #9180

Singhal, J. P.

(with Srivastava, H. M.) A note on certain hypergeometric functions of two and three variables. *Gaṇita* 17 (1966), 99-108. (M. Nassif) 37 #3062

(with Srivastava, H. M.) Contour integrals associated with certain generalised hypergeometric functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 824-840. (T. Erber) 41 #2069

Integration of certain products involving a generalized Meijer function. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 976-986. (H. M. Srivastava) 39 #3051

Operational formulae for certain classical polynomials. *Rend. Sem. Mat. Univ. Padova* 38 (1967), 33-40. (R. A. Askey) 36 #2850

An integral involving Kampé de Fériet's function. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 10 (1967), 37-42. (B. M. Agrawal) 40 #414

(with Srivastava, H. M.) Double Meijer transformations of certain hypergeometric functions. *Proc. Cambridge Philos. Soc.* 64 (1968), 425-430. (L. J. Slater) 36 #6660

(with Srivastava, H. M.) Certain integrals involving Meijer's *G*-function of two variables. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 64-69. (P. N. Rathie) 40 #4497

On some polynomials related to the generalized Laguerre polynomials. *Ricerca (Napoli)* (2) 20 (1969), *settembre-dicembre*, 14-25. (K. N. Srivastava) 41 #536

Hermite polynomials as a limiting case of Jacobi polynomials. *Gaṇita* 21 (1970), *no.* 1, 95-98. (H. M. Srivastava) 44 #1853

A note on generalized Humbert polynomials. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 241-245. (P. Anandani) 43 #5079

A generating function and a binomial identity. *Duke Math. J.* 39 (1972), 25-30. (S. D. Bajpai) 44 #6999

(with Srivastava, H. M.) Some extensions of the Mehler formula. *Proc. Amer. Math. Soc.* 31 (1972), 135-141. (R. A. Askey) 44 #2955

Singhal, M. K.

On the Nörlund summability of Fourier series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 387-392. (F. C. Hsiang) 40 #6165

Singh Chandel, R. C.

The products of certain classical polynomials and the generalized Laplacian operator. *Gaṇita* 20 (1969), *no.* 2, 79-87. (K. M. Saksena) 43 #578

Generalized Laguerre polynomials and the polynomials related to them. *Indian J. Math.* 11 (1969), 57-66. (Y. L. Luke) 41 #2089

Operational representations and hypergeometric functions of three variables. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 217-222. (P. N. Rathie) 43 #7673

Singh Cheema, Mohinder. See Cheema, Mohinder Singh.

Singh Kambo, N. See Kambo, N. Singh.

Singh Khurana, Surgit. See Khurana, Surgit Singh.

Singh Varma, H. O.

Two-point homogeneous manifolds. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 746-753. (H. Freudenthal) 32 #8358

Homogeneous manifolds all of whose geodesics are closed. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 813-819. (J. F. Adams) 32 #8359

The topology of *E* III and a conjecture of Atiyah and Hirzebruch. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 67-71. (J. F. Adams) 37 #3597

Singletary, Wilson E.

Correction to "A complex of problems proposed by Post". *Bull. Amer. Math. Soc.* 70 (1964), 826. (G. F. Rose) 29 #5714

The equivalence of some general combinatorial decision problems. *Bull. Amer. Math. Soc.* 73 (1967), 446-451. (A. B. Manaster) 35 #1477

Recursive unsolvability of a complex of problems proposed by Post. *J. Fac. Sci. Univ. Tokyo Sect. I* 14, 25-58 (1967). (K. Appel) 36 #6288

A note on finite axiomatization of partial propositional calculi. *J. Symbolic Logic* 32 (1967), 352-354. (B. Lercher) 36 #51

(with Cudia, Dennis F.) Degrees of unsolvability in formal grammars. *J. Assoc. Comput. Mach.* 15 (1968), 680-692. (Authors' summary) 38 #5534

(with Cudia, Dennis F.) The Post correspondence problem. *J. Symbolic Logic* 33 (1968), 418-430. (D. Rödding) 39 #5367

Results regarding the axiomatization of partial propositional calculi. *Notre Dame J. Formal Logic* 9 (1968), 193-211. (K. Appel) 39 #4002

(with Hammer, Preston C.) Connectedness-equivalent spaces on the line. *Rend. Circ. Mat. Palermo* (2) 17 (1968), 343-355. (B. J. Ball) 43 #8054

(with Axt, Paul) On deterministic normal systems. *Z. Math. Logik Grundlagen Math.* 15 (1969), 49-62. (H. Maurer) 42 #79

(with Axt, Paul) Decision problems associated with complete deterministic normal systems. *Z. Math. Logik Grundlagen Math.* 15 (1969), 299-304. (D. Rödding) 43 #1848

(with Hughes, C. E.; Overbeek, Ross) The many-one equivalence of some general combinatorial decision problems. *Bull. Amer. Math. Soc.* 77 (1971), 467-472. (Walter Oberschelp) 43 #7324

Singleton, Richard C.

Maximum distance *q*-nary codes. *IEEE Trans. Information Theory* IT-10 (1964), 116-118. (Author's summary) 29 #2118

On computing the fast Fourier transform. *Comm. ACM* 10 (1967), 647-654. (Author's summary) 39 #2362

Singleton, Robert R.

On minimal graphs of maximum even girth. *J. Combinatorial Theory* 1 (1966), 306-332. (W. Imrich) 34 #1231

There is no irregular Moore graph. *Amer. Math. Monthly* 75 (1968), 42-43. (H. V. Kronk) 37 #1272

Singmaster, David

A maximal generalization of Fermat's theorem. *Math. Mag.* 39 (1966), 103-107. (Št. Schwarz) 33 #5551

(with Singmaster, Geralda) Forbidden regions are convex. *Amer. Math. Monthly* 74 (1967), 184-186. (G. T. Sallee) 34 #6633

Singmaster, Geralda

(with Singmaster, David) Forbidden regions are convex. *Amer. Math. Monthly* 74 (1967), 184-186. (G. T. Sallee) 34 #6633

Singpurwalla, Nozer D.

(with Harris, Carl M.) On estimation in Weibull distributions with random scale parameters. *Naval Res. Logist. Quart.* 16 (1969), 405-410. (R. V. Hogg) 40 #8164

Singroura, A. N. S.

On the harmonic summability of ultraspherical series. *Vikram— Quart. Res. J. Vikram Univ.* 9 (1965), *no.* 1 & 3, 21-40. (D. P. Gupta) 44 #5709

Singwi, K. S.

Coherent scattering of slow neutrons by a liquid. *Phys. Rev.* (2) 136 (1964), A969-A980. (J. Peretti) 33 #2346

Sinha, B. B.

Projective invariants. *Math. Student* 33 (1965), 121-127. (W. Wrona) 32 #8292

On almost product spaces. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 4, 450-453. (T. Nagano) 43 #1085

(with Singh, Surendra Pratap) On recurrent spaces of second order in Finsler spaces. *Yokohama Math. J.* 18 (1970), 27-32. (K. Takano) 43 #1102

A generalization of Gauss and Codazzi's equations for intrinsic curvature tensor. *Indian. J. Pure Appl. Math.* 2 (1971), *no.* 2, 270-274. (S. Gołąb) 44 #2186

On almost complex spaces. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 3, 422-428. (G. D. Ludden) 43 #8032

(with Singh, Surendra Pratap) A generalization of Gauss and Codazzi equations for Berwald's curvature tensor. *Tensor (N.S.)* 22 (1971), 112-116. (E. Bompiani) 43 #5472

On projective mapping in a Finsler space. *Tensor (N.S.)* 22 (1971), 326-328. (R. B. Misra) 44 #5907

Sinha, Bikas Kumar

On the optimality of some designs. *Calcutta Statist. Assoc. Bull.* 19 (1970), 1-22. (M. Atiqullah) 42 #5398

Sinha, Bimal Kumar

On the equivalence of confidence sets based on Bayesian and non-Bayesian procedures. *Calcutta Statist. Assoc. Bull.* 19 (1970), 33-40. 42 #2592

A Bayesian approach to optimum allocation in regression problems. *Calcutta Statist. Assoc. Bull.* 19 (1970), 45-52. (I. Guttman) 42 #6990

Sinha, D. K.

On problems of deformations of some electrostrictive dielectrics. *Indian J. Mech. Math.* 2 (1964), 35-40. (R. J. Knops) 30 #2732

Radial deformation of a composite piezoelectric annular disk. *J. Acoust. Soc. Amer.* 36 (1964), 1926-1928. (G. Paria) 29 #6689

A note on the radial vibration of a peizoelectric annular disk. *J. Sci. Engrg. Res.* 8 (1964), 21-30. (E. T. Kornhauser) 30 #5578

A note on torsional disturbances in an elastic cylinder in a magnetic field. (Polish and Russian summaries) *Proc. Vibration Problems* 6 (1965), 91-97. (G. F. Smith) 31 #4259

Sinha, H. C.

(with Singh, D. M.) Gauss and Codazzi equations in the subspaces of the special Kawaguchi spaces. *Bull. Calcutta Math. Soc.* 60 (1968), 137-141. (S. Ide) 42 #3730

Sinha, Indranand

On characteristic roots of group commutators of non-singular matrices. *J. Math. Soc. Japan* 16 (1964), 263-267. (P. R. Halmos) 31 #1260

On group-commutators of 2 × 2 matrices. *Amer. Math. Monthly* 72 (1965), 525-527. (S. W. Golomb) 31 #1264

Reduction of sets of matrices to a triangular form. *Pacific J. Math.* 15 (1965), 673-679. (I. Reiner) 32 #112

Commutators in nilpotent linear groups of class two. *J. London Math. Soc.* 41 (1966), 353-363. (C. W. Curtis) 34 #1338

On the augmentation-maps of the subgroups of a group. *Math. Z.* 94 (1966), 193-206. (W. E. Deskins) 34 #2723

On the radical of subrings of rings. *Math. Student* 34 (1966), 185-190 (1968). (G. Betsch) 38 #3293

(with Khatri, D. C.) Projective pairings in groups. II. *Math. Japon.* 14 (1969), 127-135. (C. Lemaire) 43 #2121

Isomorphism of group-rings. *Math. Z.* 116 (1970), 8-14. (I. Reiner) 41 #8540

Sinha, K. D. P.

(with Singh, Rajeshwar Prasad) Investigation of secondary flow and the related instability on an infinite yawed cylinder with Schubauer's ellipse as section. *Proc. Indian Acad. Sci. Sect A* 60 (1964), 219-241. (W. R. Sears) 30 #4448

Sinha, R. S.

(with Mishra, R. S.) Congruences of curves through points of a subspace and hypersurface of a Finsler space. (Turkish summary) *İstanbul Üniv. Fen. Fak. Mec. Ser. A* 29 (1964), 71-87. (H. Rund) 37 #6889

(with Mishra, R. S.) Bianchi identities satisfied by the first and second of Cartan's curvature tensors. *Bull. Calcutta Math. Soc.* 57 (1965), 99-101. (C. B. Rayner) 35 #4864

(with Mishra, R. S.) Union and hyperasymptotic curves of a Finsler subspace and hypersurface. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 119-128. (F. Brickell) 34 #772

(with Mishra, R. S.) Relative Frenet formulae for curves in a subspace and hypersurface of a Finsler space. *Tensor (N.S.)* 16 (1965), 114-132. (H. Rund) 31 #701

(with Michra, R. S.) Union curvature of a curve in a Finsler space. *Tensor (N.S.)* 16 (1965), 160-168. (H. Rund) 31 #702

Projective curvature tensors of a Finsler space. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 272-279. (R. Behari) 38 #6520

Generalization of Gauss-Codazzi equations for the first of Cartan's curvature tensors in a hypersurface of a Finsler space. *Tensor (N.S.)* 19 (1968), 275-278. 38 #653

Generalisations of Gauss-Codazzi equations for second of Cartan's curvature tensors in a hypersurface of a Finsler space. *J. Indian Math. Soc. (N.S.)* 33 (1969), 133-140 (1970). (H. Rund) 42 #6770

Generalisation of Gauss-Codazzi equations for Berwald's curvature tensors in a hypersurface of a Finsler space. *Tensor (N.S.)* 20 (1969), 13-19. (E. Bompiani) 39 #3435

Affine motion in recurrent Finsler spaces. *Tensor (N.S.)* 20 (1969), 261-264. (E. T. Davies) 41 #979

Conformal transformation of curvature tensors of a Finsler space. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 35-43. (S. Gołąb) 42 #2413

(with Srivastava, S. C.) Generalised Gauss-Codazzi equation for a subspace of a Finsler space. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 123-129. (H. Rund) 40 #8005

On projective motions in a Finsler space with recurrent curvature. *Tensor (N.S.)* 21 (1970), 124-126. (E. Bompiani) 41 #2595

(with Verma, Manjula) Generalised Gauss-Codazzi equations for second of Cartan's curvature tensors for a subspace of a Finsler space. *Tensor (N.S.)* 22 (1971), 321-325. (Makoto Matsumoto) 44 #5908

Sinha, S. B.

A study of the transverse waves in layered hypo-elastic media. *J. Sci. Engrg. Res.* 7 (1963), 293-306. (M. Hayes) 29 #1817

Sinha, S. M.

An extension of a theorem on supports of a convex function. *Management Sci.* 12 (1966), 380-384. (K. Strubecker) 33 2413

A duality theorem for nonlinear programming. *Management Sci.* 12 (1966), 385-390. (Author's summary) 32 #7228

(with Swarup, Kanti) Mathematical programming: A survey. *J. Math. Sci.* 2 (1967), 125-146. (Editors) 37 #5028
(with Lal, S. S.) On indefinite quadratic programming. *J. Math. Sci.* 3 (1968), 71-74. (Authors' summary) 38 #6847
(with Bajaj, C. P.) The maximum capacity route through a set of specified nodes. *Cahiers Centre Études Recherche Opér.* 11 (1969), 133-138. (Authors' summary) 40 #3899
(with Bajaj, C. P.) The maximum capacity route through sets of specified nodes. *Opsearch* 7 (1970), 96-114. (D. R. Fulkerson) 43 #8356
(with Wadhwa, Vijay) Programming with a special class of nonlinear functionals. (German summary) *Unternehmensforschung* 14 (1970), 215-219. (R. W. Cottle) 42 #2808

Sinha, Sri Rama
A theorem on the absolute Cesàro summability of Fourier series. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 302-308. (E. Kogbetliantz) 29 #3823
The late Prof. B. N. Prasad. *Indian J. Math.* 7 (1965), *no.* 2, i-ii. (1 *plate*) (Editors) 34 #4096
On the non-absolute summability *(A)* of the conjugate series of a Fourier series. *Indian J. Math.* 9 (1967), 505-512 (1968). (S. M. Shah) 40 #6166

Sinha, T. N.
(with Moessner, Alfred) Some Diophantine problems. *Math. Student* 31 (1963), 35-39 (1964). (D. J. Lewis) 29 #2217
On Diophantine approximation. *J. Indian Math. Soc. (N.S.)* 28 (1964), 139-144 (1965). (L. C. Eggan) 32 #4088
Two simultaneous diophantine equations. *Math. Student* 33 (1965), 59-61. (B. Stolt) 33 #2599
Some systems of diophantine equations of the Tarry-Escott type. *J. Indian Math. Soc. (N.S.)* 30 (1966), 15-26 (1967). (R. Finkelstein) 36 #1389
A diophantine problem. *Math. Student* 34 (1966), 31-32. (T. Hayashida) 35 #2826
A diophantine problem. *Math. Student* 37 (1969), 131-135. (J. B. Kelly) 42 #1761
A relation between the coefficients and roots of two equations and its application to diophantine problems. *J. Res. Nat. Bur. Standards Sect. B* 74B (1970), 31-36. (J. B. Kelly) 42 #1765

Sinha, V. P.
(with Dhawan, G. K.) On generalized Stirling numbers and polynomials. *Riv. Mat. Univ. Parma* (2) 10 (1969), 95-100. (R. C. Varma) 44 #7014

Sinickiĭ, L. A.
Dynamical properties of modulators. (Russian. English summary) *Avtomat. i Telemeh.* 24 (1963), 1706-1711. (B. A. Fleishman) 30 #5863

Sinicyn, A. S.
(with Matveev, P. S.) Dynamic precision of automatic control systems with random parameters. (Russian) *Avtomat. Upravl. i Vyčisl. Teh., Vyp.* 6, *pp.* 232-305. *Izdat. "Mašinostroenie", Moscow,* 1964. (N. H. Choksy) 31 #5758

Sinisi, Vito F.
Leśniewski and Frege on collective classes. *Notre Dame J. Formal Logic* 10 (1969), 239-246. (From the author's introduction) 40 #1260

Sinjavskiĭ, È. P.
(with Kovarskiĭ, V. A.; Čaĭkovskiĭ, I. A.) Kinetic quantum equations for nonradiative recombinations. *Fiz. Tverd. Tela* 6 (1964), 2131-2145 *(Russian); translated as Soviet Physics Solid State* 6 (1965), 1679-1689. (K. Imre) 32 #7155

Sinjavs'kiĭ, M. Ī.
A certain numerical analysis method of solving ordinary differential equations. (Russian) *Certain Problems of Applied Mathematics, No.* 3 *(Russian), pp.* 268-275. *Izdat. "Naukova Dumka", Kiev,* 1967. (K. Frankowski) 39 #7819
A certain numerical method of determining singular points of integrals of systems of nonlinear differential equations. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 597-599, 666. (B. A. Bondarenko) 41 #4777
(with Fil'čakov, P. F.) The determination of the type of singular points of the solutions of nonlinear differential equations. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 504-408, 572. (Authors' summary) 44 #528

Sinjukov, N. S.
Almost geodesic mappings of affinely connected and Riemannian spaces. (Russian) *Dokl. Akad. Nauk SSSR* 151 (1963), 781-782. (D. J. Struik) 30 #2432
On the theory of a geodesic mapping of Riemannian spaces. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 770-772. (A. Urban) 34 #1962
Almost geodesic mappings of spaces with affine connection, and *e*-structures. (Russian) *Mat. Zametki* 7 (1970), 449-459. (A. Goetz) 42 #3702
Infinitesimal almost geodesic transformations of affinely connected and Riemannian spaces. I. (Russian) *Ukrain. Geometr. Sb. Vyp.* 9 (1970), 86-95. (A. Goetz) 44 #7464

Šinkarik, T. K.
Analytical and numerical integration of the equations of the translational-rotational motion of a dynamically symmetrical body in the gravitational field of a spherical body. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 11, *no.* 8 (131), 533-543. (Author's summary) 42 #8755

Sinkhorn, Richard
Factor sets for doubly stochastic operators on a Hilbert space. *Proc. Amer. Math. Soc.* 16 (1965), 692-695. (R. G. Douglas) 31 #5105
A relationship between arbitrary positive matrices and stochastic matrices. *Canad. J. Math.* 18 (1966), 303-306. (M. Marcus) 32 #7574
Diagonal equivalence to matrices with prescribed row and column sums. *Amer. Math. Monthly* 74 (1967), 402-405. (J. G. Mauldon) 35 #1616
Concerning the minimum function of a stochastic matrix. *Canad. Math. Bull.* 10 (1967), 745-748. (R. A. Brualdi) 37 #1395
(with Knopp, Paul) Concerning nonnegative matrices and doubly stochastic matrices. *Pacific J. Math.* 21 (1967), 343-348. (J. G. Mauldon) 35 #1617
Two results concerning doubly stochastic matrices. *Amer. Math. Monthly* 75 (1968), 632-634. (J. G. Mauldon) 37 #6305
(with Knopp, Paul) A note concerning simultaneous integral equations. *Canad. J. Math.* 20 (1968), 855-861. (H. E. Fettis) 37 #4522
Concerning the Jordan normal form. *Math. Mag.* 41 (1968), 91-93. (C. F. Moppert) 37 #4101
Concerning a conjecture of Marshall Hall. *Proc. Amer. Math. Soc.* 21 (1969), 197-201. (H. Minc) 39 #2780
(with Knopp, Paul) Problems involving diagonal products in nonnegative matrices. *Trans. Amer. Math. Soc.* 136 (1969), 67-75. (M. Pearl) 38 #2151
(with Hedrick, Mark) A special class of irreducible matrices—The nearly reducible matrices. *J. Algebra* 16 (1970), 143-150. (Marvin Marcus) 42 #3103
Linear transformations under which the doubly stochastic matrices are invariant. *Proc. Amer. Math. Soc.* 27 (1971), 213-221. (N. J. Pullman) 42 #4573

Sinkov, A.
The number of abstract definitions of *LF*(2,*p*) as a quotient group of (2,3,*n*). *J. Algebra* 12 (1969), 525-532. (M. J. Wonenburger) 39 #1567

Šinkūnas, J.
The space of support elements. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 6 (1966), 449-455. (M. Kucharzewski) 35 #4846
The differential invariants of a space of support linears. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 10 (1970), 611-637. (B. Crstici) 43 #2627

Sinnadurai, J. St.-C. L.
Representation of integers as sums of six cubes and one square. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 289-296. (O. H. Körner) 32 #4108

Sinov'ev, V. F.
On the theory of the orthogonal polynomials with weights satisfying the relation: $y'/y = (B_0 + B_1x + B_2x^2 + B_3x^3)/(A_0 + A_1x + A_2x^2 + A_3x^3 + A_4x^4)$. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 44-45. *Kazan Univ., Kazan,* 1963. (I. M. Sheffer) 32 #7810

Sintzoff, M.
Existence of a van Wijngaarden syntax for every recursively enumerable set. *Ann. Soc. Sci. Bruxelles Sér. I* 81 (1967), 115-118. (E. M. Fels) 38 #4306

Siocon, F. M. See Sioson, Federico M.

Sion, Maurice
(with Bressler, D. W.) The current theory of analytic sets. *Canad. J. Math.* 16 (1964), 207-230. (M. Brelot) 29 #1153
A characterization of weak* convergence. *Pacific J. Math.* 14 (1964), 1059-1067. (H. D. Brunk) 32 #5833
(with Willmott, R. C.) Hausdorff measures on abstract spaces. *Trans. Amer. Math. Soc.* 123 (1966), 275-309. (J. C. Oxtoby) 34 #297
(with Zelmer, G.) On quasi-metrizability. *Canad. J. Math.* 19 (1967), 1243-1249. (B. Fitzpatrick, Jr.) 36 #4522
* Introduction to the methods of real analysis. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London,* 1968. x + 134 *pp.* (S. J. Taylor) 37 #5332
(with Godfrey, M. C.) On product of Radón measures. *Canad. Math. Bull.* 12 (1969), 427-444. (Roy A. Johnson) 42 #7854
(with Harpain, Franz) A representation theorem for measures on infinite dimensional spaces. *Pacific J. Math.* 30 (1969), 47-58. (W. A. J. Luxemburg) 40 #291
Outer measures with values in a topological group. *Proc. London Math. Soc.* (3) 19 (1969), 89-106. (S. Foglio) 39 #398

(with Mallory, Donald J.) Limits of inverse systems of measures. (French summary) *Ann. Inst. Fourier (Grenoble)* 21 (1971), *fasc.* 1, 25-57. (S. Foglio) 44 #1782

Sioson, Federico M.

Généralisation d'un théorème d'Hopkins-Brauer. *C. R. Acad. Sci. Paris* 257 (1963), 1890-1892. (G. B. Preston) 29 #47

Cyclic and homogenous *m*-semigroups. *Proc. Japan Acad.* 39 (1963), 444-449. (G. B. Preston) 31 #4847

Equational bases of Boolean algebras. *J. Symbolic Logic* 29 (1964), 115-124. (D. Monk) 30 #3042

A remark on Newman algebras. *Kyungpook Math. J.* 6 (1964/65), 59-67. (Ph. Dwinger) 37 #5126

Further axiomatizations of the Łukasiewicz three-valued calculus. *Notre Dame J. Formal Logic* 5 (1964), 62-70. (A. Rose) 31 #2141

Ideals in (m + 1)-semigroups. *Ann. Mat. Pura Appl.* (4) 68 (1965), 161-200. (K. H. Hofmann) 31 #5913

A characterization of tautologies in the propositional calculus of three variables. (Spanish) *Gac. Mat. (Madrid)* (1) 17 (1965), 68-74. (H. B. Curry) 33 #38

Ideal theory in ternary semigroups. *Math. Japon.* 10 (1965), 63-84. (H. H. Campaigne) 33 #1265

On Newman algebras. I, II. *Proc. Japan Acad.* 41 (1965), 31-34, 35-39. (D. Monk) 31 #5823

Decompositions of generalized algebras. I. *Proc. Japan Acad.* 41 (1965), 923-926. (G. Grätzer) 33 #5542

Decompositions of generalized algebras. II. *Proc. Japan Acad.* 41 (1965), 927-932. (G. Grätzer) 33 #5543

Natural equational bases for Newman and Boolean algebras. *Compositio Math.* 17, 299-310 (1966). (Ph. Dwinger) 34 #5720

(with Monk, D.) *m*-semigroups, semigroups, and function representations. *Fund. Math.* 59 (1966), 233-241. (H.-J. Hoehnke) 34 #5958

On generalized algebras. *Portugal. Math.* 25 (1966), 67-90. (P. Crawley) 35 #1532

On ideals and subsemiheaps. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 383-400. (Anne L. Hudson) 33 #7448

A note on congruences. *Proc. Japan Acad.* 43 (1967), 103-107. (G. Grätzer) 35 #6608

On free Abelian *m*-groups. I, II, III. *Proc. Japan Acad.* 43 (1967), 876-879; *ibid.* 43 (1967), 880-883; *ibid.* 43 (1967), 884-888. (K. H. Hofmann) 37 #2892

Siotani, Minoru

Tolerance regions for a multivariate normal population. *Ann. Inst. Statist. Math.* 16 (1964), 135-153. (P. S. Dwyer) 30 #2613

Interval estimation for linear combinations of means. *J. Amer. Statist. Assoc.* 59 (1964), 1141-1164. (H. E. Reinhardt) 30 #5412

(with Hayakawa, Takesi) Asymptotic distributions of functions of Wishart matrix. (Japanese. English summary) *Proc. Inst. Statist. Math.* 12 (1964/65), 191-198. (T. Watanabe) 33 #1918

Some applications of Loewner's ordering on symmetric matrices. *Ann. Inst. Statist. Math.* 19 (1967), 245-259. (I. Olkin) 36 #1030 (E)

Cancellation of Section 5 of: "Some applications of Loewner's ordering on symmetric matrices". *Ann. Inst. Statist. Math.* 20 (1968), 168. (Editors) 37 #2373

An asymptotic expansion of the non-null distribution of Hotelling's generalized T_0^2-statistic. *Ann. Math. Statist.* 42 (1971), 560-571. 44 #3416

Sipala, Paolo

* Appunti di teoria degli algoritmi. Relazione Interna No. 19 (1968). *Facoltà di Ingegneria, Istituto di Elettrotecnica e di Elettronica, Università Degli Studi di Trieste, Trieste,* 1968. 89 *pp.* (B. van Rootselaar) 40 #7117

Šipilin, A. V.

(with Borisov, V. M.) On maximum thrust nozzles with arbitrary isoperimetric conditions. *Prikl. Mat. Meh.* 28 (1964), 182-183 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 220-222. (H. C. Levey) 31 #2931

On bodies of minimum wave drag in nonuniform free stream of gas. *Prikl. Mat. Meh.* 28 (1964), 543-547 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 669-674. (G. Deb Ray) 32 #718

Šiposs, Andrej

(with Čepel, Ján) Envelope of an *n*-parameter system of surfaces in space. (Slovak) *Apl. Mat.* 12 (1967), 217-218. (Z. Nádeník) 37 #829

Sips, Robert

Nouvelle méthode pour le calcul de l'exposant caractéristique de l'équation de Mathieu-Hill. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 191-206. (G. Blanch) 32 #6648

Un nouveau théorème d'addition pour les fonctions de Legendre. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 1165-1166. (J. A. Donaldson) 39 #4461

Quelques intégrales définies discontinues contenant des fonctions de Mathieu. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 475-491. (F. M. Arscott) 42 #4793

Šips, Vladimir

(with Ljolje, Krunoslav) Dispersion relation of electron and ion plasma in solids. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 18 (1963), 285-304. (H. B. Rosenstock) 30 #921

Zur Kollektivtheorie von Bohm und Pines. (English summary) Z. *Physik* 190 (1966), 205-208. (L. L. Van Zandt) 32 #8954

Sirao, Tunekiti

A probabilistic treatment of semi-linear parabolic equations. *Proc. Japan Acad.* 42 (1966), 885-890. (H. P. McKean, Jr.) 36 #983

On signed branching Markov processes with age. *Nagoya Math. J.* 32 (1968), 155-225. (D. S. Adorno) 38 #768

(with Watanabe, Hisao) On the Hölder continuity of stationary Gaussian processes. *Proc. Japan Acad.* 44 (1968), 482-484. (T. Hida) 38 #3917

(with Nagasawa, Masao) Probabilistic treatment of the blowing up of solutions for a nonlinear integral equation. *Trans. Amer. Math. Soc.* 139 (1969), 301-310. (H. P. McKean, Jr.) 39 #736

A remark on the Moyal's construction of Markov processes. *Nagoya Math. J.* 38 (1970), 91-101. (D. L. Iglehart) 41 #6323

(with Watanabe, Hisao) On the upper and lower class for stationary Gaussian processes. *Trans. Amer. Math. Soc.* 147 (1970), 301-331. (E. J. Hannan) 41 #1111

Siraždinov, S. H.

(with Abdurahmanov, T.) Statistical acceptance control by several indications for $N \to \infty$. (Russian) *Theory Probability Math. Statist. (Russian), pp.* 13-25. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. (S. Blumenthal) 33 #6797

(with Šahaĭdarova, N.) On the uniform local theorem for densities. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 6, 30-36. (W. Hoeffding) 33 #762

(with Orazov, G.) Approximation to the normal law. (Russian. Uzbek summary) *Dokl. Akad. Nauk UzSSR* 1966, *no.* 1, 3-6. (V. Grigelionis (RŽMat 1966 #8 V16)) 41 #9335

(with Orazov, G.) Sharpening of a theorem of H. Robbins. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 1, 30-39. (W. Hoeffding) 33 #8020

(with Orazov, G.) A generalization of a theorem of H. Robbins. (Russian) *Limit Theorems Statist. Inference (Russian), pp.* 154-162. *Izdat. "Fan", Tashkent,* 1966. (W. Hoeffding) 33 #8021

Über Grenzwertsätze für unabhängige zufällige Summanden. *Wiss. Z. Techn. Univ. Dresden* 15 (1966), 915-921. (K. Kunisawa) 39 #3563

(with Formanov, Š. K.) A limit theorem for Markov chains. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 2, 31-37. (G. Maruyama) 35 #2355

Results of the investigations in the domain of probability theory and mathematical statistics in Uzbekistan in fifty years. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 5, 21-26. 35 #7358

(with Talipov, A.) On a scheme of random wandering. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 4, 27-31. (F. L. Spitzer) 38 #6682

(with Orazov, G.) A certain theorem of B. Rozen. (Russian) *Probabilistic Models and Quality Control (Russian), pp.* 37-41. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1968. (E. Lukacs) 41 #6269

(with Talipov, A.) A certain random walk problem. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 2, 33-37. (F. L. Spitzer) 44 #4819

(See also Stochastic processes and related problems, 42 #3847)

(with Mamatov, M.; Formanov, Š. K.) Uniform estimates in limit theorems for sums of a random number of independent random variables. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 5, 28-34. (J. Galambos) 44 #1090

(with Azlarov, T. A.) Studies in probability theory and mathematical statistics. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 5-12. (Editors) 43 #1803

(with Azlarov, T. A.; Džamirzaev, A. A.) Certain remarks about transfer theorems. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 15 (1971), *no.* 2, 21-25. (D. Szász) 44 #7616

Sirazetdinov, T. K.

The maximum principle of L. S. Pontrjagin in the theory of linear optimal processes with distributed parameters. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 80 (1963), 51-63. (R. Tomović) 34 #2359

On the theory of optimal processes with distributed parameters. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 463-472. (W. H. Fleming) 29 #5678

On the stability of random processes with distributed parameters. *Prikl. Mat. Meh.* 28 (1964), 977-986 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 1185-1195. (T. K. Caughey) 35 #521

Stability of processes with distributed parameters. I. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 83 (1964), 16-42. (M. Reghiş) 34 #6302a

Stability of processes with distributed parameters. II. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 83 (1964), 43-78. (M. Reghiş) 34 #6302b

Theory of stability of motion of a fluid in constantly acting perturbances. (Russian) *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* 1965, *no.* 4, 62-74. (Şt. I. Gheorghiţă) 33 #6944

Optimal control of stochastic processes with distributed parameters. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 89 (1965), 88-101. (A. Moro) 35 #1398

Analytical design of controls for magnetohydrodynamic processes. I. *Avtomat. i Telemeh.* 1967, *no.* 10, 41-52 *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 10, 1439-1448 (1968). (Author's summary) 38 #4184

(with Degtjarev, G. L.) Optimal control of one-dimensional processes with distributed parameters. *Avtomat. i Telemeh.* 1967, *no.* 11, 29-38 *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 11, 1642-1650 (1968). (Authors' summary) 38 #3747

Analytic design of regulators for magnetohydrodynamic processes. II. *Avtomat. i Telemeh.* 1967, *no.* 12, 5-15 *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 12, 1813-1822 (1968). (Author's summary) 38 #6868

The analytic construction of regulators in processes with distributed parameters. (Russian. English summary) *Trudy Univ. Družby Narod.* 27 (1968), *vyp.* 5, 74-85. (V. Plotnikov (RŽMat 1969 #2 B506)) 42 #8369

(with Klestov, E. A.) Optimal response-time problem in systems with random properties. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 3, 10-16 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 3, 8-14. (A. Bensoussan) 42 #1563

(with Degtjarev, G. L.) Optimal control of one-dimensional gas dynamic processes. (Russian) *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* 1970, *no.* 1, 43-51. (G. Zatiašvili) 44 #8017

(with Baloev, A. A.) On the problem of the optimization of stochastic processes. (Russian) *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* 1970, *no.*.2, 11-19. (K. Wickwire) 44 #1485

Stability of processes with distributed parameters in the case of constantly acting perturbations. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 125 (1970), 20-27. (E. C. Skowronski) 44 #6368

Sirazhdinov, S. Kh. See Siraždinov, S. H.

Sirčenko, Z. F.

* О существовании и свойствах почти периодического решения дифференциального уравнения в стандартной форме в Гильбертовом пространстве в окресности точки равновесия. (Russian) [On the existence and properties of an almost periodic solution of a differential equation in standard form in a Hilbert space near the point of equilibrium] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1964, 40 *pp.* (J. Albrycht) 33 #353

On the existence and properties of an almost periodic solution in standard form in a Hilbert space near an equilibrium point. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1964, 1132-1135. (M. Zlámal) 29 #6115

Extension of a theorem of N. N. Bogoljubov to the case of a Hilbert space. (Russian. English summary) *Ukrain. Mat. Ž.* 16 (1964), 339-350. (A. Stokes) 29 #6347

(with Endžirglĭ, L. P.; Eĭdel'man, S. D.) The continuous dependence of the solutions of certain parabolic boundary value problems on a parameter. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1971, 331-335, 382. (V. S. Koroljuk) 44 #7139

Siret, Y.

(with Martinet, J.) Obtention automatique des équations de Runge et Kutta. *Computers in Mathematical Research, pp.* 113-139. *North-Holland, Amsterdam,* 1968. (H. J. Stetter) 39 #2365

Sireţchi, Gh.

(with Boboc, N.) Sur la compactification d'un espace topologique. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 5(53) (1961), 155-165 (1964). (W. W. Comfort) 32 #430

On a separation theorem for convex sets in vector spaces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 101-107. (M. M. Day) 32 #8102

On certain spaces with a base. (Romanian. Russian and French summaries) *An. Univ. Bucureşti. Ser. Şti. Natur. Mat.-Mec.* 13 (1964), *no.* 2, 141-144. (J. Horváth) 32 #1545

Širikjan, R. A.

Asymptotic methods in the theory of one-dimensional singular differential operators of odd order. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1942-1956. (W. A. Coppel) 36 #5451

The spectral analysis of systems of the form $y' = kA(x)y$ on a half-axis. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 46 (1968), *no.* 5, 209-212. (L. Janos) 38 #5059

The spectrum of nonselfadjoint differential operators. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 791-792. (J. Gil de Lamadrid) 39 #5862

Širikov, V. P.

(with Židkov, E. P.) A boundary-value problem for ordinary differential equations of second order. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 804-816. (Z. Nehari) 31 #427

Cauchy problem and boundary value problem for certain nonlinear ordinary second-order differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 834-836. (W. S. Loud) 32 #2663

(with Židkov, E. P.; Puzynin, I. V.) The Cauchy problem and the boundary value problem for a certain nonlinear ordinary differential equation of second order. (Russian) *Proc. Conf. Math. Methods of Solution of Problems in Nuclear Phys. (Russian), pp.* 13-18. *Ob''edin. Inst. Jadernyh Issled., Dubna,* 1965. (Z. Nehari) 35 #457

Širikova, N. Ju.

(with Korneĭčuk, A. A.) Uniform polynomial approximations of a function of one variable. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1171-1176. (J. Szabados) 36 #4219

(with Korneĭčuk, A. A.) An iterational method of determining the polynomial of best approximation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 670-674. (J. T. Scheick) 40 #611

A formula for the polynomial of best approximation, obtained by means of a computer. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 181-183. 42 #5422

Širinbekov, M.

Structure of the envelopes of holomorphy for semi-tubular domains. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 522-524. (H. Tornehave) 30 #278

Hulls of holomorphy of a class of regions. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 134-137. (H. Tornehave) 35 #419

A certain class of polynomially convex regions. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 4, 3-5. (L. C. Young) 37 #4287

A certain sufficient condition for the existence of a supplementary envelope of holomorphy. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 234-237. (O. Forster) 38 #6099

The representation of envelopes of holomorphy of an intersection of domains in the form of an intersection of their envelopes of holomorphy. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 703-707. (S. Kaneyuki) 42 #3304

Širinkulov, T.

(with Badalov, F.) On the solution of the differential equation of forced vibrations of rectangular orthotropic plates on a rigid support with two characteristics. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1084-1092. (A. Langenbach) 34 #3846

Sirisena, H. R.

Optimal control of saturable linear plants for minimum integral-square-error and similar performance criteria. *Internat. J. Control* (1) 8 (1968), 629-652. (Author's summary) 38 #1932

Širjaev, A. N.

On the theory of decision functions and control by an observation process with incomplete data. (Russian) *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962*), pp.* 657-681. *Publ. House Czech. Acad. Sci., Prague,* 1964. (W. Hoeffding) 30 #1591

On Markov sufficient statistics in non-additive Bayes problems of sequential analysis. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 670-686. (J. Wolfowitz) 30 #4350

(with Arkin, V. I.; Kolemaev, V. A.) On the determination of optimal controls. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 21-25. (W. H. Fleming) 31 #1141

(with Viskov, O. V.) On controls which reduce to optimal stationary regimes. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 35-45. (E. Polak) 30 #3792

Detection of randomly appearing targets in a multi-channel system. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 113-117. (C. W. Helstrom) 29 #6964

Sequential analysis and controlled random processes (discrete time). (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 3, 1-24. (E. J. Dudewicz) 33 #847

(with Lipcer, R. Š.) On a Bayesian problem of sequential search in a diffusion approximation. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 192-199. (J. Hájek) 31 #853

Some explicit formulae in a problem on "disorder". (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 380-385. (K. Dietz) 32 #2263

(with Grigelionis, B.) Criterions of "truncatedness" of the optimal stopping moment in sequential analysis. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 601-613. (Lionel Weiss) 32 #8474

Stochastic equations of non-linear filtering of jump-like Markov processes. (Russian) *Problemy Peredači Informacii* 2 (1966), *vyp.* 3, 3-22. (S. Kullback) 34 #4045

(with Grigelionis, B. I.) On the Stefan problem and optimal stopping rules for Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 612-631. (N. Furukawa) 35 #7538

Some new results in the theory of controlled random processes. (Russian) *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 131-203. *Academia, Prague,* 1967. (W. H. Fleming) 37 #1186

Two problems of sequential analysis. *Kibernetika (Kiev)* 1967, *no.* 2, 79-86 *(Russian); translated as Cybernetics* 3 (1967), *no.* 2, 63-69 (1969). (L. A. Aroian) 42 #7000

Investigations in statistical sequential analysis. (Russian) *Mat. Zametki* 3 (1968), 739-754. (S. Kullback) 37 #4917

(with Grigelionis, B. I.) Controllable Markov processes and Stefan's problem. *Problemy Peredači Informacii* 4 (1968), *vyp.* 1, 60-72 *(Russian); translated as Problems of Information Transmission* 4 (1968), *no.* 1, 47-57 (1969). (E. Parzen) 44 #3433

(with Lipcer, R. Š.) Extrapolation of multi-dimensional Markov processes from incomplete data. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 17-38. (I. Cuculescu) 38 #3918 (with Lipcer, R. Š.) Nonlinear interpolation of the components of diffusion Markov processes (direct equations, effective formulae). (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 602-620. (S. Kullback) 39 #2216

(with Lipcer, R. Š.) Nonlinear filtration of diffusion Markov processes. (Russian) *Trudy Mat. Inst. Steklov.* 104 (1968), 135-180. (G. E. Denzel) 41 #6342

(See also Bharucha-Reid, A. T., 40 #2156)

Optimal stopping rules for Markov processes with continuous time. (With discussion. French summary) Proc. Thirty-seventh Session Internat. Statist. Inst. (London, 1969). *Bull. Inst. Internat. Statist.* 43 (1969), *book* 1, 395-408. (D. L. Burkholder) 44 #1152

(with Lipcer, R. Š.) Interpolation and filtration of the jump-like component of a Markov process. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 901-914. (S. Kullback) 40 #5039

(with Lipcer, P. Š.) The density of probability measures of diffusion type processes. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 1120-1131. (J. L. Denny) 41 #4654

Širjaev, V. M.

The semigroup of pairs of interior translation of a semigroup. (Russian) *Vescĭ Akad. Navuk BSSR Ser. Fĭz.-Mat. Navuk* 1969, *no.* 4, 99-107. (J. Dénes) 41 #3641

Inverse semigroups with a given *G*-radical. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 782-785. (L. Bokut′) 42 #7812

Širjaeva, E. V.

Iterative sequences on an invariant set with two points of repulsion. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 169-194. (I. N. Baker) 33 #4199

Širkov, D. V.

(with Serebrjakov, V. V.) Dispersion theory of low energy scattering. *Fortschr. Physik* 13 (1965), 227-276. (A. C. T. Wu) 32 #2076

(with Ginzburg, I. F.) The renormalization group and the ultraviolet asymptotic limit of scattering. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 335-344 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 234-240. (J. Smith) 33 #5260

Sirlin, A.

Perturbation theory about the symmetry limit and K_{l3} form factors. *Ann. Physics* 61 (1970), 294-314. (R. Høegh-Krohn) 42 #7201

(with Bég, M. A. B.; Bernstein, J.; Gross, David J.; Jackiw, R.) Dimensions of currents and current commutators. *Phys. Rev. Lett.* 25 (1970), 1231-1234. (N. Nakanishi) 44 #5034

Širohov, M. F.

Sequences of decompositions of a Boolean algebra. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 75-87. (S. Rudeanu) 34 #1241

Širokorad, B. V.

The cone method for dynamic systems with memory and turbulence. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 22-33. (R. F. Datko) 32 #4505

On the stability in the large of the zero-solution of a coalescing system. (Russian) *Differencial′nye Uravnenija* 1 (1965), 1177-1182. (J. K. Hale) 33 #4395

(with Hohlova, L. V.) On structural dissipativity and stability of the perturbed Liénard system. (Russian. English summary) *Trudy Univ. Družby Narod.* 10 (1965), *vyp.* 1, 77-85. (J. M. Skowroński) 35 #489

The existence and dislocation of the simple limiting cycle for the equations of a generator. (Russian. French summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 203-208. (K. W. Chang) 35 #3149

Širokov, A. P.

Classification of groups of motions of a biaxial space of elliptic type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 208-221. 32 #4610

Spaces over associative unitary algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 222-247. (V. Havel) 33 #4844

On real realizations of projective spaces over algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 248-254. (M. Decuyper) 32 #6343

(with Kopp, V. G.; Laptev, B. L.; Sulikovskiĭ, V. I.) Aleksandr Petrovič Norden (on his sixtieth birthday). (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 5 (119), 171-179. (1 *plate*) (Editors) 29 #4662

On the theory of spaces definable by commutative algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 165-182. (RŽMat 1966 #6 A353) 34 #1950

(See also Širokov, P. A., 36 #4442)

Symmetric spaces defined by commutative algebras of the 4th order. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 126 (1966), *kn.* 1, 60-80. (C. Teleman) 39 #896

On the question of pure tensors and invariant subspaces in manifolds with almost algebraic structure. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 126 (1966), *kn.* 1, 81-89. (W. Wrona) 37 #6887

On a type of *G*-structures defined by algebras. (Russian) *Trudy Geometr. Sem.* 1 (1966), 425-456. (Author's summary (RŽMat 1967 #6 A383)) 37 #852

(with Habibullina, R. N.) A classification of the groups of motions of the biaxial space of hyperbolic type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 134-152. (V. Višnevskiĭ (RŽMat 1969 #8 A505)) 42 #3661

A certain biaxial model of a principal fiber bundle. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 158-165. *(errata insert)* (O. Kowalski) 43 #8019

Structures on differentiable manifolds. (Russian) *Algebra. Topology. Geometry.* 1967 *(Russian), pp.* 127-188. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. Tehn. Informacii, Moscow,* 1969. (P. Ver Eecke) 41 #4546

(with Melent′ev, A. I.) On the geometry of one-dimensional spaces over completely reducible algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 129 (1970), *kn.* 6, 99-110. (D. I. Papuc) 44 #4671

A note on a certain tangent bundle. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 129 (1970), *kn.* 6, 122-127. (O. Kowalski) 43 #8018

Širokov, Ju. M.

(with Češkov, A. A.) Invariant parametrization of local operators. *Nuclear Phys.* 49 (1963), 108-120. (J. S. Lomont) 30 #888

(with Lonskiĭ, E. S.) New types of connections between local operators and the scattering matrix. *Nuclear Phys.* 55 (1964), 293-299. (R. Ingraham) 29 #3131

(with Bose, S. K.) Relativistic extension of SU(6). *Phys. Rev. Lett.* 14 (1965), 398-399. (B. Kursunoglu) 31 #5566

Particles and the *S*-matrix in quantum field theory. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 222-231 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 147-152. (A. Peres) 33 #1038

(with Mineev, V. S.) The relation between fields and particles with spin. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 719-722 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 475-477. (C. G. Bollini) 32 #3544

(with Bryčkov, Ju. A.) Certain limit formulas for generalized functions. (Russian) *Mat. Zametki* 2 (1967), 81-90. (R. M. Dudley) 35 #3438

Širokov, M. F.

On the theory of stationary flows in magnetogasdynamics. (Russian) *Problems of Magnetohydrodynamics, II, pp.* 39-48. *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. 31 #6498

Širokov, P. A.

* Тензорное исчисление. (Russian) [Tensor calculus] Second edition. *Izdat. Kazan. Univ., Kazan,* 1961. 447 *pp.* (Editors) 29 #5187

* Избранные работы по геометрии. (Russian) [Selected works on geometry] Edited by A. Z. Petrov, B. L. Laptev and A. P. Širokov. *Izdat. Kazan. Univ., Kazan,* 1966. 432 *pp. (1 plate; errata insert)* (Editors) 36 #4442

Širokov, V. I.

A selection principle for a certain class of discontinuous functions. (Russian) *Comment. Math. Univ. Carolinae* 9 (1968), 13-25. (J. Mařík) 38 #673

Širokova, S. A.

Block designs. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 5 (143), 51-98. (E. Seiden) 38 #5649

(See also Harary, F., 41 #3325 and Hall, Marshall, Jr., 42 #4411)

Širokovskaja, O. S.

A remark on A. F. Sidorov's article "On an algorithm for computation of optimal difference nets". (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 468-469. (L. Veidinger) 40 #6749

Širokovskaya, O. S. See Širokovskaja, O. S.

Širokovskiĭ, V. P.

(with Djakin, V. V.) Rate of convergence of the associated plane wave method in the computation of electron spectra. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 1047-1050. (I. K. Marek) 44 #7903

Siromoney, Gift

Entropy of logarithmic series distributions. *Sankhyā Ser. A* 24 (1962), 419-420. (Author's summary) 29 #6572

The general Dirichlet's series distribution. *J. Indian Statist. Assoc.* 2 (1964), 69-74. (E. Lukacs) 30 #2536

Siromoney, Rani

On equal matrix languages. *Information and Control* 14 (1969), 135-151. (S. Ginsburg) 40 #7052

Channel capacity of equal matrix languages. *Information and Control* 14 (1969), 507-511. (Author's summary) 40 #1222

A characterization of semilinear sets. *Proc. Amer. Math. Soc.* 21 (1969), 689-694. (S. Ginsburg) 39 #1248

Sirota, A. I.

(with Solodovnikov, A. S.) Centers of real simple Lie groups and kernels of their homomorphisms. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961) *(Russian), Vol. II, pp.* 244-246. *Izdat. "Nauka", Leningrad,* 1964. (C. Teleman) 37 #1521

Classification of real simple Lie groups (in the large). (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 345-365. (H. Freudenthal) 33 #4182

(See also Hadwiger, H., 34 #6638)

Decomposition of linear representations of the symplectic and orthogonal groups induced by a representation of the full linear group. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 54-67. (J. M. G. Fell) 34 #7720

(with Kantor, I. L.; Solodovnikov, A. S.) A class of symmetric spaces with an extensible group of motions and a generalization of the Poincaré model. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 511-514. (A. Goetz) 35 #3607

Decompositions of linear representations of certain groups connected with symmetric spaces. (Russian) *Trudy Vsesojuz. Zaočn. Ènerget. Inst. Vyp.* 33 (1967), 81-92. (K. R. Parthasarathy) 38 #3386

Simple subgroups of simply connected simple real Lie groups. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 14 (1968), 3-19. (W. T. van Est) 41 #8580

Sirota, S. M.

κ-points in topological spaces. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 542-545. (Eugene F. Steiner) 37 #883

The spectral representation of spaces of closed subsets of bicompacta. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 1069-1072. (Eugene F. Steiner) 38 #3820

Topologies on a product of groups. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1265-1268. (S. Warner) 40 #6501

Homogeneous subsets of absolutes. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 728-731. (D. Baladze) 41 #8573

A product of topological groups, and extremal disconnectedness. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 179-192. (R. Bennett) 39 #4315

On the problem of the classification of filters. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 533-536. (Eugene F. Steiner) 41 #7613

Sirotin, Ju. I.

Integral rational bases of tensor invariants for crystallographic groups. *Dokl. Akad. Nauk SSSR* 151 (1963), 564-566 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 652-654. (M. J. P. Musgrave) 32 #3771

(with Kopcik, V. A.) Magnetic spatial symmetry of tensors. *Dokl. Akad. Nauk SSSR* 151 (1963), 328-331 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 649-651. (M. J. P. Musgrave) 32 #3770

Tensor functions of polar and axial vectors compatible with texture symmetry. *Prikl. Mat. Meh.* 28 (1964), 653-663 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 804-816. (A. C. Pipkin) 34 #8703

Sirotin, M. I.

(with Cirul′skiĭ, A. V.) On the analytic continuation of a logarithmic potential. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 105-109 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 59-61. (E. Kogbetliantz) 29 #4599

Sirotkin, A. M.

(with Slesarev, I. S.) Application of variational functionals with variable boundaries to the construction of approximate methods of solution of the neutron transport equation. *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 529-534. (Authors' summary) 44 #5065

Širov, I. I.

(with Latipov, H. R.) On the behavior of characteristics in the large of a differential equation. (Russian) *Studies in Differential Equations (Russian), pp.* 117-131. *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1963. (M. Bertolino) 32 #4320

Construction of regions of stability by nonlinearly entering parameters. (Russian) *Theory of Functions Differential Equations (Russian), pp.* 207-218. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1965. (W. M. Wonham) 33 #3806

Determination of the region of aperiodic stability in the presence of parameters appearing non-linearly in the characteristic equation. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 4, 23-28. (C. Olech) 32 #4339

Sirovich, Carole

On the distribution of elements belonging to certain subgroups of algebraic numbers. *Trans. Amer. Math. Soc.* 141 (1969), 93-98. (T. Kubota) 39 #4113

Sirovich, Lawrence

(with Thurber, James K.) Propagation of forced sound waves in rarefied gasdynamics. *J. Acoust. Soc. Amer.* 37 (1965), 329-339. (R. Balescu) 30 #5754

Class of exact solutions in nonlinear kinetic theory. *Phys. Fluids* 8 (1965), 2230-2233. (PA 69 #11410) 35 #2594

(with Thurber, James K.) On the propagation of free sound waves in rarefied gas dynamics. *Rarefied Gas Dynamics, Vol. I (Proc. Fourth Internat. Sympos., Univ. Toronto,* 1964), *pp.* 21-47. *Academic Press, New York,* 1966. (P. L. Bhatnagar) 34 #3863

Initial and boundary value problems in dissipative gas dynamics. *Phys. Fluids* 10 (1967), 24-34. (W. F. Ames) 34 #8718

(with Thurber, James K.) On some mathematical aspects of kinetic model equations. *Quart. Appl. Math.* 25 (1967), 175-186. (J. A. McLennan) 36 #2372

(with Thurber, James K.) Wave propagation and other spectral problems in kinetic theory. *J. Mathematical Phys.* 10 (1969), 239-249. (Authors' summary) 41 #4984

Asymptotic evaluation of multidimensional integrals. *J. Mathematical Phys.* 11 (1970), 1365-1374. (E. Riekstiņš) 42 #6487

* Techniques of asymptotic analysis. Applied Mathematical Sciences, Vol. 2. *Springer-Verlag, New York-Berlin,* 1971. ix + 306 *pp. (loose errata)* (W. Wasow) 43 #792

(with Halabisky, Lorne) On the structure of dissipative waves in two and three dimensions. *Quart. Appl. Math.* 29 (1971), 135-149. (W. F. Ames) 44 #3574

Širšov, A. I.

Some algorithmic problems for ε-algebras. (Russian) *Sibirsk. Mat. Ž.* 3 (1962), 132-137. (V. N. Latyšev (RŽMat 1962 #11 A210)) 32 #1222

Some algorithm problems for Lie algebras. (Russian) *Sibirsk. Mat. Ž.* 3 (1962), 292-296. (S. I. Adjan (RŽMat 1962 #11 A211)) 32 #1231

On a hypothesis of the theory of Lie algebras. (Russian) *Sibirsk. Mat. Ž.* 3 (1962), 297-301. (L. A. Skornjakov (RŽMat 1962 #8 A215)) 32 #167

On certain near-Engel groups. (Russian) *Algebra i Logika Sem.* 2 (1963), *no.* 5, 5-18. (H. Heineken) 29 #158

Certain identical relations in algebras. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 963-966. (W. G. Leavitt) 33 #4097

Some positively definalble group varieties. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1190-1192. (Andrzej Białynicki-Birula) 36 #2675

(with Aleksandrov, P. S.; Eršov, Ju. L.; Kargapolov, M. I.; Kuz′min, E. N.; Smirnov, D. M.; Taĭmanov, A. D.) Anatoliĭ Ivanovič Mal′cev: Obituary. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 159-170. (1 *plate*) (Editors) 37 #19

On the definition of the binary Lie property. (Russian) *Algebra i Logika* 10 (1971), 100-102. (H. Heineken) 44 #5355

Sirugue, Michel

(with Trotin, J. C.) Finite groups generated by symmetries. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 3 (1965), 161-174. (B. Chang) 33 #5719

(with Andriambololona, Raoelina; Sirugue-Collin, Madeleine) Transformation généralisée de Bogoliubov et solutions de l'équation de Dirac. *C. R. Acad. Sci. Paris* 260 (1965), 4458-4459. (R. F. Streater) 31 #1033

(with Loupias, G.; Trotin, J. C.) On simple Lie groups of rank 3. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1303-1325. (N. Mukunda) 33 #3686

(with Kastler, D.; Trotin, J. C.) Commutants of certain operator algebras on Fock space. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 4 (1966), 77-82. (H. Araki) 34 #5428

(with Rocca, François; Testard, Daniel) Les états quasi libres comme états d'équilibre sous les conditions de Kubo-Martin-Schwinger. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A672-A673. (R. F. Stora) 40 #8388

(with Rocca, François; Testard, Daniel) États quasi libres invariants de translation et transformations de Bogoliubov. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A722-A723. (Authors' summary) 41 #6501

(with Rocca, F.; Testard, D.) Translation invariant quasi-free states and Bogoliubov transformations. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 10 (1969), 247-258. (D. A. Uhlenbrock) 40 #2308

(with Rocca, F.; Testard, D.) On a class of equilibrium states under the Kubo-Martin-Schwinger boundary condition. I. Fermions. *Comm. Math. Phys.* 13 (1969), 317-334. (F. C. Auluck) 40 #2316

(with Rocca, F.; Testard, D.) On a class of equilibrium states under the Kubo-Martin-Schwinger condition. II. Bosons. *Comm. Math. Phys.* 19 (1970), 119-141. (F. C. Auluck) 42 #4149

(with Winnick, M.) Constraints imposed upon a state of a system that satisfied the K.M.S. boundary condition. *Comm. Math. Phys.* 19 (1970), 161-168. (D. A. Uhlenbrock) 42 #8822

(with Winnick, Marinus) Une généralisation du théorème d'unicité de l'automorphisme modulaire d'une algèbre de von Neumann de genre dénombrable. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1185-A1187. (H. Araki) 44 #1350

(with Testard, D.) Some connections between ground states and temperature states of thermodynamical systems. *Comm. Math. Phys.* 22 (1971), 223-237. (N. E. Hurt) 44 #6238

Sirugue-Collin, Madeleine

(with Andriambololona, Raoelina; Sirugue, Michel) Transformation généralisée de Bogoliubov et solutions de l'équation de Dirac. *C. R. Acad. Sci. Paris* 260 (1965), 4458-4459. (R. F. Streater) 31 #1033

Širvanov, A. G.

An algorithm for the solution of systems of linear inequalities. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 2, 19-25. (B. Bereanu) 32 #7229 (with Žaldak, M. I.; Kovbasenko, B. S.) On a certain algorithm for solving an infinite-dimensional system of inequalities. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 6, 29-33. (J. H. Halton) 35 #6342

Siry, J. W.

(with Hall, D. W.; Vanderslice, B. R.) The chromatic polynomial of the truncated icosahedron. *Proc. Amer. Math. Soc.* 16 (1965), 620-628. (G. Sabidussi) 31 #3361

Širyaev, A. N. See Širjaev, A. N.

Šišatskiĭ, S. P.

The correctness of boundary value problems for a second order differential equation, with a self-adjoint negative operator, in a Hilbert space. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 81-85. (G. Geymonat) 38 #395

Sisir Chandra Das. See Das, Sisir Chandra.

Šiškin, A. A.

(with Kuznecov, N. N.) A higher-dimensional problem in the theory of quasi-linear equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.*, 192-205. (W. H. Fleming) 32 #2714

Šiškin, G. I.

(with Il′in, A. M.) The first boundary value problem for the equation of Brownian motion on the halfline. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad′* 2, 59-75. (V. S. Koroljuk) 44 #637

A certain heat problem with a free boundary. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 1276-1279. (K.-H. Hauer) 43 #3649

Šiškin, G. V.

Some consequences of perturbation theory in a multi-group diffusion-age approximation. (Russian) *Dokl. Akad. Nauk BSSR* 7 (1963), 743-745. (E. H. Bareiss) 32 #3786

Šiškin, N. E.

* (with Koževnikov, N. I.; Krasnoščekova, T. I.) Ряды и интеграл Фурье. Теория поля. Аналитические и специальные функции. Преобразование Лапласа. (Russian) [Fourier series and integral. Theory of fields. Analytic and special functions. Laplace transformation] Edited by A. V. Ignat′eva. *Izdat. "Nauka", Moscow,* 1964. 183 *pp.* (Editors) 31 #910

Siskind, Victor

On certain suggested formulae applied to the sequential *t*-test. *Biometrika* 51 (1964), 97-106. (H. E. Reinhardt) 30 #5423

A solution of the general stochastic epidemic. *Biometrika* 52 (1965), 613-616. (P. A. P. Moran) 34 #7224

On using an incorrect value of $\sigma^{2}_{B}/\sigma^{2}$ in balanced incomplete block designs. *Biometrika* 55 (1968), 254-255. (Author's summary) 36 #7271

Multivariate stochastic differential and difference equations with periodic coefficients. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 171-180. (Author's summary) 42 #3877

The fixed cycle traffic light problem: A note on a paper by McNeil. *J. Appl. Probability* 7 (1970), 245-248. (E. Reich) 41 #1146

Šiškov, D. B.

Finite automaton state assignment with unitary codes. *Avtomat. i Telemeh.* 1967, *no.* 12, 165-168. *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 12, 1964-1967 (1968). (Author's summary) 38 #4225

A certain method of synthesis of stable time-optimal structures with economic realization. (Russian) *Bull. Math. Soc. Sci. Math. R. S. Roumaine (N.S.)* 13(61) (1969), *no.* 1, 105-116 (1970). (R. N. Goss) 41 #5126

Šiškov, L. K.

(with Šihov, S. B.) The existence and uniqueness of a positive solution of a certain critical reactor equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 686-690. (Z. Janković) 39 #7916

Šisler, Miroslav

Über ein Iterationsverfahren für die Lösung der Systeme nichtlinearer Gleichungen. I. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 86 (1961), 439-461. (J. Eliaš (RŽMat 1963 #2 V60)) 30 #5480

Solution of systems of nonlinear equations. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 88 (1963), 414-429. (H. Schwerdtfeger) 41 #7837

On an iteration process for the solution of an approximately linear system of equations. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 89 (1964), 36-52. (H. Schwerdtfeger) 31 #6372

Contribution to the iteration methods for the solution of systems of linear equations with a non-symmetric matrix of special type. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 90 (1965), 337-343. (H. Schwerdtfeger) 32 #6658

Solution of a system of nonlinear equations with a functional matrix of special type. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 90 (1965), 344-352. (O. Borůvka) 33 #1975

Approximative Formeln für den Fehler bei Iterationsverfahren. (Russian summary) *Apl. Mat.* 11 (1966), 341-351. (H. Rutishauser) 34 #3770

Approximative Formeln für den Fehler bei Iterationsverfahren von höherer Ordnung. (Czech and Russian summaries) *Apl. Mat.* 12 (1967), 1-14. (J. W. Schmidt) 35 #3846

Über die Konvergenzbeschleunigung verschiedener Iterationsverfahren. (Czech and Russian summareis) *Apl. Mat.* 12 (1967), 255-267. (A. S. Householder) 36 #6129

Über eine Relaxationsmethode. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 478-488. (A. R. Mitchell) 39 #6503

Über die Konvergenzbeschleunigung komplexer Iterationsverfahren. (Czech summary) *Apl. Mat.* 15 (1970), 156-176. (H.-O. Kreiss) 42 #7053

Über die Konvergenz von Iterationsverfahren. (Czech summary) *Apl. Mat.* 16 (1971), 10-23. (David A. Sprecher) 44 #3480

Šišljannikova, V. N.

Some algorithms for active optimal mixed strategies in game theory. (Russian) *Differential Equations and their Applications in Engineering (Russian), pp.* 103-107. *Izdat. "Zinatne", Riga,* 1968. 40 #5269

Šišmarev, I. A.

(with Il′in, V. A.) On the theory of linear equations with discontinuous coefficients. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 108-111. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (W. Littman) 34 #4689

(with Il′in, V. A.) On accurate estimates of eigenfunctions in a closed domain. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 112-114. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (D. O. Bands) 34 #3138

Exact estimates of the eigenfunctions of the biharmonic operator. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 790-793. (E. Gerlach) 34 #4726

(with Šatalov, V. E.) Dirichlet series for elliptic operators. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 1280-1282. (F. Barański) 40 #1717

The eigenfunctions of the polyharmonic operator. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 781-782. (G. Wildenhain) 40 #795

The mean value theorem for the polyharmonic equation, and some corollaries of it. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 4, 69-76. (F. Barański) 41 #8701

(with Šatalov, V. E.) Analytic continuation of the Dirichlet series of elliptic boundary value problems. I, II. (Russian) *Differencial′nye Uravnenija* 6 (1970), 1652-1672; *ibid.* 6 (1970), 1844-1850. (J. S. Shipman) 44 #3151

Estimates exact in a closed domain of the eigenfunctions of the polyharmonic operator. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 203-204. (H. Triebel) 41 #5807

Sismondi, Silvana

(with Mathis, Maria Luisa) Formule asintotiche "ritoccate" per il calcolo numerico dei polinomi di Legendre. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 625-640. (S. C. van Veen) 31 #1406

(with Mathis, Maria Luisa) Sul calcolo numerico degli zeri dei polinomi ultrasferici. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 977-991. (A. S. Householder) 32 #4295

Šišov, V. S.

On fixed couples of points of the iterative process for determining eigenvalues. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 332-335. (H. Schwerdtfeger) 34 #2171

The ideal elements of groups. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 284 (1968), 53-56. (L. Dornhoff) 41 #376

An exact rule for the relative error of a product. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 361 (1970), 29-35. (E. Jokl) 43 #7097

The curvature of a space curve in a given direction. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 361 (1970), 67-75. (Author's summary) 43 #5416

Šišova, T. V.

(with Gol′din, V. Ja.; Kalitkin, N. N.) Nonlinear difference schemes for hyperbolic equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 938-944. (J. R. Cannon) 33 #6849

Šister, A. R.

(with Aliev, Ju. M.) Transport phenomena in a plasma in a strong magnetic field. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1499-1508 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 1035-1040. (J. Tjøtta-Naze) 32 #7127

Sister Marion Beiter. See Beiter, Sister Marion.

Sister Mary Justin Markham. See Markham, Sister Mary Justin.

Sitaram, K.

On some special Frobenius groups. *J. London Math. Soc.* 43 (1968), 577-582. (E. E. Shult) 38 #1161

The quaternion group in plane geometry. *Proc. Amer. Math. Soc.* 19 (1968), 857-858. (R. Lingenberg) 38 #2663

(with Ebey, S.) Frobenius groups and Wedderburn's theorem. *Amer. Math. Monthly* 76 (1969), 526-528. (J. E. Whitesitt) 39 #4228

Sitaramachandra Rao, R.

(with Suryanarayana, D.) The number of pairs of integers with L.C.M. $\leq x$. *Arch. Math. (Basel)* 21 (1970), 490-497. (E. M. Horadam) 43 #171

(with Suryanarayana, D.) On the order of the error function of the k-free integers. *Proc. Amer. Math. Soc.* 28 (1971), 53-58. (T. M. Apostol) 42 #5927

Sitaraman, Y.

(with Rangachari, M. S.) Tauberian theorems for logarithmic summability *(L)*. *Tôhoku Math. J.* (2) 16 (1964), 257-269. (P. Heywood) 30 #2265 (E)

On the Tauberian constant for summability *(L)*. *J. Indian Math. Soc. (N.S.)* 29 (1965), 143-154. (K. Endl) 33 #3002

(with Rangachari, M. S.) Correction: Tauberian theorems for logarithmic summability *(L)*. *Tôhoku Math. J.* (2) 17 (1965), 443. (Editors) 32 #6107

A note on logarithmic summability *(L)*. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 47-55. (S. K. Basu) 34 #6378 (E)

On Tauberian theorems for the S_α -method of summability. *Math. Z.* 95 (1967), 34-49. (D. Gaier) 35 #5813 (E)

Tauberian theorems for "infinite" logarithmic summability *(L)*. *Monatsh. Math.* 71 (1967), 452-460. (D. C. Russell) 37 #3244

Addendum to: "On Tauberian theorems for the S_α-method of summability". *Math. Z.* 106 (1968), 153-157. (D. Gaier) 37 #5572

Corrigendum to "A note on logarithmic summability *(L)*". *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 77-78. (Editors) 38 #453

Sitenko, A. G.

* (with Ahiezer, A. I.; Ahiezer, I. A.; Polovin, R. V.; Stepanov, K. N.) Коллективные колебания в пласме. (Russian) [Collective vibrations in plasma] *Atomizdat, Moscow,* 1964. 163 *pp.* (R. Balescu) 32 #8922

Sitgreaves, Rosedith

Some properties of Stirling numbers of the second kind. *Fibonacci Quart.* 8 (1970), *no.* 2, 172-181. (J. M. Gandhi) 41 #3371

Sitnik, G. F.

Conditions for the stability of mechanical equilibrium. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 5, 28-30. (E. Leimanis) 30 #2871

Sitnikov, O. P.

Noncanonical expansions of a random process. (Russian) *Ural. Politehn. Inst. Sb. No.* 183 (1970), 130-134. (L. I. Gal'čuk) 44 #3382

Sitnikov, V. M.

(with Ustjužaninov, A. D.) Finite groups with three classes of noninvariant subgroups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 94-102 (1967). (E. Schenkman) 36 #3872

Finite groups with given centralizers of involutions. (Russian) *Algebra i Logika* 9 (1970), 200-219. (E. Schenkman) 43 #7501

(with Mazurov, V. D.; Syskin, S. A.) Finite groups whose solvable subgroups are 2-closed or 2′-closed. (Russian) *Algebra i Logika* 9 (1970), 313-341. (O. H. Kegel) 44 #311

Sitnikova, E. G.

A uniqueness theorem for solution of the Cauchy problem for a linear elliptic equation of second order. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 2, 36-40. (A. Kufner) 35 #6985

A strong zero theorem for a higher order elliptic equation. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 376-397. (H. Marcinkowska) 41 #8815

A theorem on three balls for an elliptic equation of higher order. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 213-219. (N. A. Atahodžaev) 42 #667

Sittler, Robert W.

(with Albert, Arthur) A method for computing least squares estimators that keep up with the data. *J. Soc. Indust. Appl. Math. Ser. A Control* 3 (1965), 384-417. (P. S. Dwyer) 33 #3405

Sitton, G. A.

Direct technique for improving a matrix inverse. *IBM J. Res. Develop.* 15 (1971), 413-417. (W. Niethammer) 44 #6141

Siu, Yum-tong

On the solution of the equation $f'(x) = \lambda f(g(x))$. *Math. Z.* 90 (1965), 391-392. (S. Goldberg) 32 #2946

Non-countable dimensions of cohomology groups of analytic sheaves and domains of holomorphy. *Math. Z.* 102 (1967), 17-29. (B. Shiffman) 36 #5394

A note on Cartan's theorems A and B. *Proc. Amer. Math. Soc.* 18 (1967), 955-956. (W. Kaup) 35 #6867

Local cohomology and connectedness of analytic subvarieties. *Osaka J. Math.* 5 (1968), 273-277. (M. Herrera) 39 #5829

Hilbert Nullstellensatz in global complex-analytic case. *Proc. Amer. Math. Soc.* 19 (1968), 296-298. (A. Morimoto) 36 #5391

Extension of coherent analytic subsheaves. *Proc. Amer. Math. Soc.* 19 (1968), 1262-1263. (G. Trautmann) 38 #1289

A proof of Cartan's theorems A and B. *Tôhoku Math. J.* (2) 20 (1968), 207-213. (S. Hitotumatu) 38 #1290

Extending coherent analytic sheaves. *Ann. of Math.* (2) 90 (1969), 108-143. (G. Trautmann) 39 #7143

Extending coherent analytic sheaves through subvarieties. *Bull. Amer. Math. Soc.* 75 (1969), 123-126. (M. L. Laplaza) 38 #4491

Analytic sheaves of local cohomology. *Bull. Amer. Math. Soc.* 75 (1969), 1011-1012. (G. Trautmann) 42 #6281

Analytic sheaf cohomology with compact supports. *Compositio Math.* 21 (1969), 52-58. (G. Trautmann) 39 #4439

O^N-approximable and holomorphic functions on complex spaces. *Duke Math. J.* 36 (1969), 451-454. (K. Peters) 39 #7144

Extension of locally free analytic sheaves. *Math. Ann.* 179 (1969), 285-294. (Gerd Fischer) 39 #3035

Analytic sheaf cohomology groups of dimension n of n-dimensional noncompact complex manifolds. *Pacific J. Math.* 28 (1969), 407-411. (S. Hitotumatu) 39 #4440

Sheaf cohomology with bounds and bounded holomorphic functions. *Proc. Amer. Math. Soc.* 21 (1969), 226-229. (G. Trautmann) 38 #6108

Noetherianness of rings of holomorphic functions on Stein compact subsets. *Proc. Amer. Math. Soc.* 21 (1969), 483-489. (B. Shiffman) 40 #404

Normal families of Cousin I and II data. *Tôhoku Math. J.* (2) 21 (1969), 548-557. (B. Shiffman) 42 #545

Noether-Lasker decomposition of coherent analytic subsheaves. *Trans. Amer. Math. Soc.* 135 (1969), 375-385. (R. O. Wells, Jr.) 38 #2340

Absolute gap-sheaves and extensions of coherent analytic sheaves. *Trans. Amer. Math. Soc.* 141 (1969), 361-376. (G. Trautmann) 39 #4441

Analytic sheaf cohomology groups of dimension n of n-dimensional complex spaces. *Trans. Amer. Math. Soc.* 143 (1969), 77-94. (G. Trautmann) 40 #5902

(with Andreotti, Aldo) Projective embedding of pseudoconcave spaces. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 231-278. (W. Thimm) 42 #542

A pseudoconcave generalization of Grauert's direct image theorem. I, II. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 279-330; *ibid.* (3) 24 (1970), 439-489. (G. Trautmann) 42 #3309

A Thullen type theorem on coherent analytic sheaf extension. Complex Analysis (Proc. Conf., Rice Univ., Houston, Tex., 1969). *Rice Univ. Studies* 56 (1970), *no.* 2, 187-197 (1971). (G. Trautmann) 43 #5062

Holomorphic functions of polynomial growth on bounded domains. *Duke Math. J.* 37 (1970), 77-84. (Gerd Fischer) 40 #4475

(with Trautmann, Günther) Extension of coherent analytic subsheaves. *Math. Ann.* 188 (1970), 128-142. (W. Thimm) 43 #3498

The 1-convex generalization of Grauert's direct image theorem. *Math. Ann.* 190 (1970/71), 203-214. (G. Trautmann) 43 5063

Analytic sheaves of local cohomology. *Trans. Amer. Math. Soc.* 148 (1970), 347-366. (G. Trautmann) 41 #2054

(with Trautmann, Günther) Closedness of coboundary modules of analytic sheaves. *Trans. Amer. Math. Soc.* 152 (1970), 649-658. (H. B. Laufer) 42 #7949

* (with Trautmann, Günther) Gap-sheaves and extension of coherent analytic subsheaves. Lecture Notes in Mathematics, Vol. 172. *Springer-Verlag, Berlin-New York,* 1971. v + 172 *pp.* (W. Thimm) 44 #4240

A Hartogs type extension theorem for coherent analytic sheaves. *Ann. of Math.* (2) 93 (1971), 166-188. (C. Bănică) 43 #5064

Sivan, Raphael

(with Yavin, Y.) The bounded energy optimal control for a class of distributed parameter systems. *Internat. J. Control* (1) 8 (1968), 525-536. (L. D. Berkovitz) 38 #5504

(with Shalvi, Shlomo) On the existence of optimal solutions for the linear system quadratic cost problem. *IEEE Trans. Automatic Control* AC-13 (1968), 188-191. (Authors' summary) 38 #6869

(with Bar-Shalom, Yaakov) On the optimal control of discrete-time linear systems with random parameters. *IEEE Trans. Automatic Control* AC-14 (1969), 3-8. 40 #3961

Sivaramakrishna, Anantharaman

Sur la représentabilité de certains foncteurs contravariants. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A345-A347. (J. R. Isbell) 37 #5229

Espaces algébriques et espaces homogènes fur une base de dimension ≤ 1. *C. R. Acad. Sci. Paris Ser. A - B* 273 (1971), A1141-A1143. (S. L. Kleiman) 44 #5290; erratum, 44, p. 1633

Sivaramakrishnan, R.

The arithmetic function $\tau_{k,r}(n)$. *Amer. Math. Monthly* 75 (1968), 988-989. (Editors) 38 #2107

Generalization of an arithmetic function. *J. Indian Math. Soc. (N.S.)* 33 (1969), 127-132 (1970). (G. K. White) 43 #6172

(with Scheid, H.) Certain classes of arithmetic functions and the operation of additive convolution. *J. Reine Angew. Math.* 245 (1970), 201-207. (T. M. Apostol) 42 #5930

Sivardière, Jean

Analogie entre les représentations des groupes doubles et des groupes d'espace. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), B453-B455. (J.-P. Antoine) 37 #6378

Représentations irréducibles des groupes d'espace et représentations avec poids des groupes ponctuels. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A272-A274. (J. Neubüser) 41 #3631

Remarque sur les représentations des groupes doubles. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1174-A1176. (Author's summary) 39 #4322

Sivašinskiĭ, G. I.

(with Barenblatt, G. I.) Self-similar solutions of the second kind in nonlinear filtration. *Prikl. Mat. Meh.* 33 (1969), 861-870 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 836-845 (1970). (G. Lebon) 41 #7910

Sivašinskiĭ, S. V.

The method of finite differences for the solution of the mixed problem for linear symmetric hyperbolic systems of the first order. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 19, 69-82. (V. Thomée) 36 #3518

Letter to the editors. (Russian) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 1, 156. (V. Thomée) 36 #7350

A numerical solution of a mixed problem for a symmetric hyperbolic system. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 200-211. (I. Šelihova (RŽMat 1970 #1 B787)) 43 #2861

The introduction of "viscosity" into first order linear symmetric systems. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 19, 54-57. (V. Thomée) 44 #593

Solution of mixed problems for first order symmetric hyperbolic systems by finite difference methods. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 1, 39-55. (J. Kopáček) 44 #1935

Sivazlian, B. D.

The generalized Dirichlet's multiple integral. *SIAM Rev.* 11 (1969), 285-288. (B. K. Lahiri) 40 #283

Asymptotic approximations to ordering policies in a stationary (σ,S) inventory problem. *SIAM J. Appl. Math.* 19 (1970), 155-166. (C. Mohan) 42 #1497

Stationary analysis of a multicommodity inventory system with interacting set-up costs. *SIAM J. Appl. Math.* 20 (1971), 264-278. (A. Bensoussan) 44 #6318

A class of multiple integrals. *SIAM J. Math. Anal.* 2 (1971), 72-75. (David A. Sprecher) 44 #2898

Sivers, Dennis

(with Yellin, Joel) Detailed dynamics of narrow resonance models for $\pi\pi$ scattering. *Ann. Physics* 55 (1969), 107-130. (I. Aganović) 40 #2298

Siwek, Edward

Une propriété des p-cônes dans l'espace euclidien à n dimensions. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 7 (1962), 67-68. (R. Jacobowitz) 34 #1908

Pseudoobjets géométriques. *Ann. Polon. Math.* 17 (1965), 209-218. (M. Kuczma) 33 #3222

Sur la dérivée covariante des pseuoobjets géométriques. *Ann. Polon. Math.* 17 (1965), 219-222. (M. Kuczma) 33 #3223

(with Zajtz, A.) Contribution à la théorie des pseudo-objets géométriques. *Ann. Polon. Math.* 19 (1967), 185-192. (A. Nijenhuis) 35 #6071

(with Lorens, Michał) Un théorème sur les pseudoobjets géométriques associés avec des objets géométriques linéaires et homogènes. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 12 (1968), 39-42. (W. B. Houston, Jr.) 36 #5846

(with Zajtz, A.) Sur un problème de S. Gołab. *Ann. Polon. Math.* 22 (1969/70), 107-120. (G. Tallini) 40 #1944

Sur les comitantes algébriques des objets géométriques non transitifs. *Ann. Polon. Math.* 24 (1970/71), 27-33. (M. Kuczma) 42 #6740

Siwiec, Frank

(with Nagata, Jun-iti) A note on nets and metrization. *Proc. Japan Acad.* 44 (1968), 623-627. (M. G. Murdeshwar) 39 #3450

(with Mancuso, Vincent J.) Relations among certain mappings and conditions for their equivalence. *General Topology and Appl.* 1 (1971), *no.* 1, 33-41. (Edwin Duda) 43 #8059

Sequence-covering and countably bi-quotient mappings. *General Topology and Appl.* 1 (1971), *no.* 2, 143-154. (Edwin Duda) 44 #5933

Sižuk, P. I.

(with Černikov, V. V.) Distortion theorems for univalent functions with real coefficients. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 189 (1966), 211-220. (A. W. Goodman) 37 #1581

(with Černikov, V. V.) A certain property of univalent functions with real coefficients. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 189-204. (J. Siciak) 41 #1984

(with Černikov, V. V.) Certain estimates of the coefficients of univalent functions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 205-216. (Z. Lewandowski) 41 #3745

(with Černikov, V. V.) Certain geometric properties of schlicht functions with real coefficients. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 210 (1969), 130-142. (Z. Lewandowski) 43 #7609

Sja Dao-sin. See Hsia Tao-hsing.

Sja Do-šin. See Hsia Tao-hsing.

Sjagaev, V. F.

A method of solving numerically a problem of the flow of a supersonic gas around conical bodies. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 742-754. (M. Holt) 29 #5493

Sjaglo, I. S.

(with Ivanickaja, O. S.) On the tetrad formulation of the theory of relativistic rotation. (Russian) *Gravitation and the Theory of Relativity, No.* 4-5 *(Russian), pp.* 105-123. *Izdat. Kazan. Univ., Kazan,* 1968. (G. Zadonskiĭ (RŽFiz 1969 #8 B143)) 44 #6294

(with Ivanickaja, O. S.) On the problem of finding simple parameters for a Lorentz transformation in the Schwarzschild gravitation field. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1969, *no.* 1, 83-88. (H. S. Green) 42 #1479

On the removal of the singularity in the Schwarzschild solution by means of a local Lorentz transformation. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 503-505. 42 #4174

Sjan' Din-čžan. See Hsien Ting-chang.

Sjavavko, M. S.

The Cauchy-Kovalevskaja theorem for equations with functional derivatives. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 32-35. (M. M. Day) 38 #2462

Sjerpinski, V. See Sierpiński, Wacław.

Sjerve, Denis

Geometric dimension of vector bundles over lens spaces. *Trans. Amer. Math. Soc.* 134 (1968), 545-557. (M. L. Curtis) 38 #1695

Vector bundles over orbit manifolds. *Trans. Amer. Math. Soc.* 138 (1969), 97-106. (H. Suzuki) 38 #6621

Sjöberg, Anders

* (with Lundqvist, Einar) Numerisk analys. I, II. (Swedish) [Numerical analysis. I, II] *Studentlitteratur, Lund,* 1969. *Vol. I:* 253 *pp.; Vol. II:* 336 *pp. (loose errata)* (V. Thomée) 42 #8647a

Sjöberg, Boris

Übertragung einiger Sätze aus der Theorie der meromorphen Funktionen endlicher Ordnung auf die Potentialtheorie. *Acta Acad. Abo. Math. Phys.* 23, *no.* 7, 51 *pp.* (M. G. Arsove) 29 #2417

Über n-fach periodische Potentiale im n-dimensionalen Raum. I. *Acta Acad. Abo. Math. Phys.* 23, *no.* 11, 9 *pp.* (1963). (M. G. Arsove) 29 #2418

Über n-fach periodische Potentiale im n-dimensionalen Raum. II. *Acta Acad. Abo. Ser. B* 25, *no.* 4, 10 *pp.* (1965). (M. Brelot) 36 #4010

Über Funktionen, die in einer Kugel δ-subharmonisch sind. *Acta Acad. Åbo. Ser. B* 26 (1966), *no.* 1, 15 *pp.* (M. Brelot) 34 #2918

Ein potentialtheoretisches Analogon zum ersten Hauptsatz der Wertverteilungslehre. *Acta Acad. Åbo. Ser. B* 26 (1966), *no.* 2, 9 *pp.* (L. Sario) 34 #2919

On derivatives in topological vector spaces. (Swedish. English summary) *Nordisk Mat. Tidskr.* 14 (1966), 87-96. (From the author's summary) 34 #4878

(with Dahlquist, G.; Svensson, P.) Comparison of the method of averages with the method of least squares. *Math. Comp.* 22 (1968), 833-845. (W. C. Rheinboldt) 39 #1099

Zur Theorie der uniformen Limesräume. (English summary) *Soc. Sci. Fenn. Comment. Phys.-Math.* 36 (1969), 25-41. (D. C. Kent) 41 #993

Sjöberg, Lennart

Successive intervals scaling of paired comparisons. *Psychometrika* 32 (1967), 297-308. (W. A. Thompson, Jr.) 35 #7519

Sjögren, Peter

A matrix lemma to Cochran's theorem. (Swedish. English summary) *Nordisk Mat. Tidskr.* 16 (1968), 157-158, 175. (Author's summary) 39 #2786

Sjölin, Per

An inequality of Paley and convergence a.e. of Walsh-Fourier series. *Ark. Mat.* 7, 551-570 (1969). (R. A. Hunt) 39 #3222

Sjöstedt, C. E.

(See Le axiome de paralleles de Euclides a Hilbert, 39 #10)

* Vocabularie mathematic in Interlingue con traduction in angles (English), frances (Français) e german (Deutsch). (Interlingua) [Mathematical vocabulary in Interlingua with translations into English, French and German] *Interlingue-Fundation, Uppsala; Bokförlaget Natur och Kultur, Stockholm,* 1970. 87 *pp.* (D. J. Struik) 43 #8

Sjöstrand, Sigrid

On the Riesz means of the solutions of the Schrödinger equation. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 331-348. (G. Da Prato) 42 #5110

Sjuĭ, L. S. See Hsu Li-hsia.

Sjuĭ Li-sja. See Hsu Li-hsia.

Skaček, B. Ja.

(with Glazman, I. M.) On the discrete part of the spectrum of the Laplacian in limit-cylindrical regions. (Russian) *Dokl. Akad. Nauk SSSR* 147 (1962), 760-763. (G. R. Morris) 31 #4984

Asymptotic behaviour of the negative part of the spectrum of higher-order singular differential operators. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1964, 14-17. (Author's summary) 29 #2677

On the spectrum of the Laplace operator in limit-cylindrical regions. (Russian) *Zap. Meh.-Mat. Fak. Har'kov. Gos. Univ. i Har'kov. Mat. Obšč.* (4) 30 (1964), 201-208. (H. Baumgärtel) 35 #3487

Asymptotic distribution of eigenvalues of singular differential operators. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 110-116. (Robert McKelvey) 34 #8006

Asymptotic distribution of the number of eigenvalues of equations of the form $Ay = \lambda By$. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 426-429. (Author's summary) 35 #3137

The asymptotic distribution of the eigenvalues of ordinary differential equations. (Ukrainian. English and Russian summaries) *Dopovidī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 600-602, 667. (M. Ráb) 41 #3868

The asymptotic distribution of the eigenvalues of ordinary differential equations. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 63-73. (R. C. Gilbert) 41 #7194

The distribution of eigenvalues of singular differential operators. (Ukrainian. English and Russian summaries) *Dopovidī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 416-419, 476. (D. Bobrowski) 43 #6496

The asymptotic distribution of the number of eigenvalues of equations of the form $Ay = \lambda By$. (Ukrainian. English and Russian summaries) *Dopovidī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 498-501, 572. (From the author's summary) 43 #7967

Skačkov, B. N.

On the stability of the zero solution for a certain class of nth order differential equations. (Russian) *Differencial'nye Uravnenija* 1 (1965), 171-175. (J. K. Hale) 34 #1623

A Ljapunov function for a certain class of self-regulation systems. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1719-1723. (J. Jarník) 40 #4550

Skačkov, V. A.

(with Popovkin, V. I.; Ščerbakov, G. I.) Optimal solutions of the antenna synthesis problem under constraints on the norm of the source distribution and on the error in realization of a given radiation pattern. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 129 (1970), 3-10. (I. Nedjalkov) 44 #3589

Skala, H.

Einige Iterationsverfahren zur Inversion von Matrizen. *Elektron. Datenverarbeitung* 7 (1965), 191-193. (T. Volženskaja (RŽMat 1966 #9 B624)) 38 #862

Skala, Helen L.

The irreducible generating sets of 2-place functions in the 2-valued logic. *Notre Dame J. Formal Logic* 7 (1966), 341-343. 38 #2000

The general solution of an arbitrary Boolean equation. *Amer. Math. Monthly* 74 (1967), 1074-1077. (S. Rudeanu) 37 #1286

Irreducibly generated algebras. *Fund. Math.* 67 (1970), 31-37. (Adil Yaqub) 41 #8327

Skal'skaia, I. P. See Skal'skaja, I. P.

Skal'skaja, I. P.

Reflection of cylindrical waves from a wedge-shaped mirror with resistive walls. *Ž. Tehn. Fiz.* 33 (1963), 1378-1383 *(Russian); translated as Soviet Physics Tech. Phys.* 8 (1964), 1026-1029. (F. Karal) 32 #3455

* (with Lebedev, N. N.; Ufljand, Ja. S.) Problems of mathematical physics. Revised, enlarged and corrected English edition; translated and edited by Richard A. Silverman. With a supplement by Edward L. Reiss. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1965. xi + 429 *pp.* (J. Mathews) 32 #3308

* (with Lebedev, N. N.; Ufljand, Ja. S.) Problems in mathematical physics. Translated by A. R. M. Robson. Translation edited by J. Reinfelds. *Pergamon Press, Oxford-Edinburgh-New York-Paris,* 1966. viii + 406 *pp.* (J. Mathews) 33 #6873

(with Lebedev, N. N.) Integral expansion of an arbitrary function in terms of spherical functions. *Prikl. Mat. Meh.* 30 (1966), 252-258 *(Russian); translated as J. Appl. Math. Mech.* 30 (1966), 314-321 (1967). (C.-B. Ling) 36 #621

(with Lebedev, N. N.) Distribution of electricity on a thin hyperboloidal segment. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 348-356. (Y. Shimizu) 35 #3964

(with Lebedev, N. N.) Expansion of an arbitrary function into an integral in terms of associated spherical functions. *Prikl. Mat. Meh.* 32 (1968), 421-427 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 421-427 (1969). (H. M. Srivastava) 39 #3244

(with Lebedev, N. N.) The solution of one class of dual integral equations connected with the Mehler-Fock transform in the theory of elasticity and mathematical physics. *Prikl. Mat. Meh.* 33 (1969), 1061-1068 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 1029-1036 (1970). (S. L. Kalla) 42 #4980

(with Lebedev, N. N.) Distribution of electricity on a thin finite cone. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1336-1346. (J. E. Rosenthal) 41 #9498

Skal'skaya, I. P. See Skal'skaja, I. P.

Skalsky, Michael

A note on a convolution-type combinatorial identity. *Amer. Math. Monthly* 74 (1967), 836-838. (M. S. Cheema) 36 #2511

An application of Lagrange's formula for the inversion of power series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 302-319 (1970), 15-17. (V. Ganapathy Iyer) 44 #388

A note on the estimation of the mean of a homogeneous random field. *J. Appl. Probability* 8 (1971), 626-629. (T. Pitcher) 44 #7689

Skamkočaĭšvili, L. M.

(with Gelašvili, M. S.; Hatiašvili, M. T.) A mathematical model for the optimal distribution of seasonal industries and the determination of their optimal capacities. (Russian. Georgian summary) *Thbilis. Saḫelmc̣. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 279-284. 44 #3671

Škarlet, Ju. M.

(with Šmelov, V. P.) The electromagnetic field of a turn carrying an alternating current above a conducting plate. *Ž. Tehn. Fiz.* 34 (1964), 131-141 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 102-109. (Y. Hayashi) 32 #6865

Skateckiĭ, V. G.

Integrability conditions in finite form for certain systems of ordinary differential equations of the second order. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1307-1311. (O. E. Stanaitis) 34 #2970

Solution in finite form of certain systems of ordinary differential equations of second order. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1664-1667. (B. S. Popov) 34 #6182

A stability condition of a certain system of differential equations with a parameter. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 229-231. (R. F. Datko) 37 #523

Integration in finite form of certain systems of ordinary second order differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 857-861. (J. A. Morrison) 35 #4488

Skau, Christian Fr.

* Existence of simplicial boundary measures on compact convex sets. Various Publications Series, No. 5. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. 66 *pp.* (G. Maltese) 41 #4195

(with Alfsen, Erik M.) Existence et unicité des représentations intégrales par les mesures simpliciales sur la frontière extrémale d'un convexe compact. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1390-A1393. (J. Lindenstrauss) 40 #4717

(with Alfsen, Erik M.) Simplicial decomposition of boundary measures on convex compact sets. *Math. Scand.* 26 (1970), 62-72. (E. G. Effros) 42 #3533

Skeath, J. E.

An extension of the Denjoy-Carleman-Ahlfors theorem in subharmonic form. *Trans. Amer. Math. Soc.* 119 (1965), 535-551. (G. Springer) 32 #2584

Evans-Kuramochi exhaustion functions on non-algebroid Riemann surfaces. *Nagoya Math. J.* 39 (1970), 157-166. (M. H. Heins) 41 #8661

Škel', V. A.

(with Bobkov, V. V.) One-step rules for the approximate solution to the Cauchy problem for the equation $y' = f(x,y)$ in terms of the values of the right hand side of the equation and its derivatives. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 3, 60-67. (F. M. Pascal) 44 #6159

Skelton, Grant B.

(with Johnson, Timothy L.; Athans, Michael) Optimal control-surface locations for flexible aircraft. *IEEE Trans. Automatic Control* AC-16 (1971), 320-331. (Yaakov Yavin) 44 #5152

Skendžić, Marija

(with Stanković, Bogoljub) Opérateurs parfaits. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 57-62. (J. Blackman) 30 #5130

The analytic solutions of Mikusiński operational differential equations. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 17-21. (A. H. Zemanian) 34 #4839

Differential equations over the field of Mikusiński operators. (Serbo-Croatian. English summary) *Mat. Vesnik* 6(21) (1969), 229-242. (A. Erdélyi) 41 #2321

The non linear Cauchy problem of operator differential equations. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 133-141. (N. Hayek Calil) 43 #3751

Skerry, H. B.

(with Jakimovski, A.) Some regularity conditions for the (f,d_n,z_1) summability method. *Proc. Amer. Math. Soc.* 24 (1970), 281-287. (J. P. King) 40 #4629

Šķerstena, A.

A certain method of computing the eigenvalues of the Mathieu equation. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 7 (Russian), pp.* 289-298. *Izdat. "Zinatne", Riga,* 1970. (J. Milota) 43 #2851

Skibiński, P.

Some expansion theorems for the *H*-function. *Ann. Polon. Math.* 23 (1970/71), 125-138. (R. K. Saxena) 42 #2058

Skibinsky, Morris

Adequate subfields and sufficiency. *Ann. Math. Statist.* 38 (1967), 155-161. (R. R. Bahadur) 34 #6914

The range of the $(n+1)$th moment for distributions on [0,1]. *J. Appl. Probability* 4 (1967), 543-552. (M. Skalsky) 37 #3624

Minimax estimation of a random probability whose first *N* moments are known. *Ann. Math. Statist.* 39 (1968), 492-501. (Lionel Weiss) 36 #4702

Extreme *n*th moments for distributions on [0,1] and the inverse of a moment space map. *J. Appl. Probability* 5 (1968), 693-701. (R. H. Farrell) 39 #7655

Minimax estimation of a random probability. *SIAM J. Appl. Math.* 16 (1968), 134-145. (E. S. Keeping) 36 #4703

Some striking properties of binomial and beta moments. *Ann. Math. Statist.* 40 (1969), 1753-1764. (G. Roussas) 40 #8106

A characterization of hypergeometric distributions. *J. Amer. Statist. Assoc.* 65 (1970), 926-929. (Author's summary) 42 #3894

Skidmore, A. Samanich

(with Leighton, Walter) On the oscillation of solutions of a second-order linear differential equation. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 327-334. (J. S. Bradley) 35 #5706

On the stability of solutions of a differential equation of fourth order. *J. London Math. Soc.* 41 (1966), 649-661. (J. O. C. Ezeilo) 34 #3033

Skiepko, J.

(with Dałek, J.) Application des ondes doubles concourantes aux problèmes non stationnaires unidimensionnels avec des conditions aux limites discontinues. (Polish and Russian summaries) *Arch. Mech. Stos.* 18 (1966), 627-637. (M. Sichel) 35 #7640

Škīl', M. Ī.

Construction of an asymptotic solution of a system of linear differential equations with a small parameter. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1963, 572-575. (Author's summary) 29 #1381

Asymptotic solution of a system of linear differential equations in the case of multiple roots of the characteristic equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 2 (39), 176-185. (M. Ráb) 29 #1382

Asymptotic expansions for a system of linear differential equations containing a parameter. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1964, *no.* 6, 87-94. (C. Olech) 33 #348

Systems of linear differential equations with a small parameter coefficient of some of the derivatives. (Russian) *Differential'nye Uravnenija* 1 (1965), 868-879. (K. L. Cooke) 33 #375

On the improvement of an algorithm for constructing the asymptotic solution of a system of linear differential equations containing a parameter. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 277-281. (Author's summary) 35 #3895

On the asymptotic solution of a system of linear differential equations when the characteristic equation has multiple roots. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukrain. RSR* 1965, 699-702. (M. Ráb) 32 #4341

* (with Fescenko, S. F.; Nīkolenko, L. D.) Асимптотические методы в теории линейных дифференциальных уравнений. (Russian) [Asymptotic methods in the theory of linear differential equations] Akademija Nauk USSR. Institut Matematiki. *"Naukova Dumka", Kiev,* 1966. 251 *pp.* (W. A. Coppel) 33 #6057

Reduction of systems of linear differential equations to the generalized *L*-diagonal form. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1436-1443. (M. Ráb) 34 #4587

Construction of the general asymptotic solution of a system of linear differential equations with a small parameter. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 1 (50), 161-169. (M. Ráb) 33 #7647

Asymptotic solution of a system of linear differential equations with partial derivatives. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 85-96. (J. Kopáček) 35 #567

* (with Fešcenko, S. F.; Nīkolenko, L. D.) Asymptotic methods in the theory of linear differential equations. Translated from the Russian by Scripta Technica, Inc. Translation editor, Herbert Eagle. Modern Analytic and Computational Methods in Science and Mathematics, No. 10. *American Elsevier Publishing Co., Inc., New York,* 1967. xvi + 270 *pp.* (Editors) 36 #4081

The construction of formal solutions of a system of linear differential equations with retarded argument. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 1040-1043. (M. Ráb) 36 #5471

The asymptotic solution of a system of differential equations with small parameter. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 9 (64), 99-104. (A. D. Ziebur) 36 #481

Asymptotic solution of a system of linear differential equations with retarded argument. (Russian) *Problems in the Theory and History of Differential Equations (Russian), pp.* 165-182. *"Naukova Dumka", Kiev,* 1968. (M. Švec) 38 #3553

(with Starun, Ī. Ī.) Construction of an asymptotic solution of a system of linear differential equations with slowly varying coefficients in the case of multiple elementary divisors. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1002-1009. (M. Ráb) 40 #2978

(with Starun, Ī. Ī.) Construction of an asymptotic solution of a system of linear differential equations with slowly varying coefficients in the case of multiple elementary divisors. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 21-25, 83. (A. A. Juščenko) 40 #5987; erratum, 41, p. 1965

Construction of a general asymptotic solution of a system of linear differential equations in the case of multiple elementary divisors. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 35-39, 84. (A. A. Juščenko) 40 #5988

The asymptotic decomposition of a system of linear differential equations with slowly changing coefficients. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 76-90. (C. E. Langenhop) 41 #586

Skimel', V. N.

A certain property of motions. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 109 (1969), 52-58. (O. Hájek) 44 #5574

Skinderev, N. P.

An empirical formula for finding the number of prime pairs contained in the interval from 1 to *x*. (Russian) *Čeljabinsk. Gos. Ped. Inst. Trudy* 2 (1964), 62-65. (W. Schwarz) 35 #2819

Skinner, Thomas J.

(with Parrent, George B., Jr.; Shore, Robert A.) On the mutual coherence function in an inhomogeneous medium. *J. Mathematical Phys.* 3 (1962), 678-684. (E. Wolf) 29 #6793

(with Reynolds, George O.) Mutual coherence function applied to imaging through a random medium. *J. Opt. Soc. Amer.* 54 (1964), 1302-1309. (K. Noda) 32 #738

Skitovič, V. P.

* (with Emel'janov, G. V.) Задачник по теории вероятностей и математической статистике. (Russian) [Book of exercises in probability theory and mathematical statistics] *Izdat. Leningrad. Univ., Leningrad,* 1967. 332 *pp. (errata insert)* (Editors) 36 #4591

Sklansky, Jack

Learning systems for automatic control. *IEEE Trans. Automatic Control* AC-11 (1966), 6-19. (Editors) 32 #9117

(with Kaplan, K. R.) The delay method of analyzing Markov chains. *SIAM J. Appl. Math.* 16 (1968), 1173-1183. (E. S. Boylan) 38 #5296

Sklar, Abe

(with Schweizer, B.) Triangle inequalities in a class of statistical metric spaces. *J. London Math. Soc.* 38 (1963), 401-406. (E. Vincze) 30 #4238

(with Schweizer, B.) Associative functions and abstract semigroups. *Publ. Math. Debrecen* 10 (1963), 69-81. (M. Hosszú) 30 #1201

(with Schweizer, B.) The algebra of functions. III. *Math. Ann.* 161 (1965), 171-196. (O. Frink) 32 #7667

(with Schweizer, B.) The algebra of multiplace vector-valued functions. *Bull. Amer. Math. Soc.* 73 (1967), 510-515. (B. M. Schein (Šaĭn)) 35 #4138

(with Schweizer, B.) Function systems. *Math. Ann.* 172 (1967), 1-16. (O. Frink) 35 #4137

(with Schweizer, B.) A grammar of functions. I. *Aequationes Math.* 2 (1968), 62-85. (M. Hosszú) 38 #2227

(with Schweizer, B.) A grammar of functions. II. *Aequationes Math.* 3 (1969), 15-43. (M. Hosszú) 42 #4663

Canonical decompositions, stable functions, and fractional iterates. *Aequationes Math.* 3 (1969), 118-129. (B. Choczewski) 40 #6099

(with Schweizer, Berthold) Mesures aléatoires de l'information. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A721-A723. (S. Guiaşu) 40 #7018

(with Schweizer, Berthold) Mesure aléatoire de l'information et mesure de l'information par un ensemble d'observateurs. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A149-A152. (S. Guiaşu) 44 #3774

(with Erber, T.; Schweizer, B.) Probabilistic metric spaces and hysteresis systems. *Comm. Math. Phys.* 20 (1971), 205-219. (F. C. Auluck) 43 #5853

Sklarenko, E. See Skljarenko, E. G.

klennik, A. F.

The solution of the Dirichlet problem by the method of wanderings. (Russian) *Differential Equations and their Applications in Engineering (Russian), pp.* 53-72. *Izdat. "Zinatne", Riga,* 1968. (H. Švecová) 41 #2880

klepus, N. G.

(with Bezljudnyĭ, E. E.; Rakova, L. V.) Approximate calculation of double integrals by V. L. Rvačev's method. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 1, 129-131. (P. Zinterhof) 42 #1336

(with Klimenko, V. G.) A certain modification of variational methods. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 442-445, 478. (V. F. Dem'janov) 43 #5738

lianski, A. L. See Skljanskiĭ, A. L.

liarenko, E. See Skljarenko, E. G.

lifos, P. I.

Ordered loops. (Russian) *Algebra i Logika* 9 (1970), 714-730. (F. Šik) 44 #130

A system of convex subloops of a linearly ordered loop. (Russian) *Algebra i Logika* 10 (1971), 45-60. (F. Šik) 44 #6579

ljaeva, N. V.

Theorems on an integral inequality for multi-dimensional integral equations of Volterra type. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 239-240. 33 #6316

ljarenko, E. G.

Some applications of the theory of sheaves in general topology. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 6 (120), 47-70. (J. R. Isbell) 30 #1490

On the definition of cohomology dimension. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 538-539. (P. J. Hilton) 31 #739

Certain remarks on limit spaces of Postnikov systems. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 61-64. (J. Stasheff) 34 #2016

Linkage of cycles. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 4 (130), 77-90. (David W. Henderson) 33 #6612

(with Beniaminov, E. M.) Local cohomology groups. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 987-990. (A. Borel) 36 #7135

Almost acyclic mappings. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 296-302. (J. W. Jaworowksi) 37 #4806

Uniform edging structures. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 39-42. (R. Bennett) 40 #874

Homology theory and the exactness axiom. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 5 (149), 87-140. (D. Baladze) 41 #7676

Uniqueness theorems in homology theory. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 201-223. (D. Baladze) 44 #4738

ljarenko, V. A.

Relation between (H^k)- and (P)-integrals. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 2, 69-77. (J. Mařík) 43 #7567

ljarevič, A. N.

Reliability indices of a finite automaton. (Russian) *Avtomat. i Vyčisl. Tehn.* 15 (1966), 73-86. (S. Kullback) 34 #7298

The average time of serviceable work of a finite automaton. (Russian) *Avtomat. i Vyčisl. Tehn.* 15 (1966), 87-96. (S. Kullback) 34 #7299

Distribution of disturbances in failing systems. (Russian) *Avtomat. i Vyčisl. Tehn.* 1967, *no.* 1, 40-49. (Author's summary) 44 #3682

The reliability function of a finite automaton. (Russian) *Avtomat. i Vyčisl. Tehn.* 1967, *no.* 3, 40-46. (Author's summary) 44 #3801

Distribution of distrubances in a finite automaton, mean time of its proper functioning. (Russian) *Avtomat. i Vyčisl. Tehn.* 1967, *no.* 6, 30-37. (S. Kotz) 44 #8075

(with Jadina, V. F.) A method for the approximate determination of the reliability function of a finite automaton. (Russian) *Avtomat. i Vyčisl. Tehn.* 1968, *no.* 6, 52-60. (Authors' summary) 44 #3802

The reliability function of a finite automaton. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 1, 94-98 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 1, 91-96. (C. L. Sheng) 41 #1450

Tests for checking the working order of an iteration-free combination automaton. (Russian) *Avtomat. i Vyčisl. Tehn.* 1970, *no.* 5, 48-56. (Author's summary) 44 #8076

l'jarevich, A. N. See Skljarevič, A. N.

ljarov, L. Ī.

(with Rvačov, V. L.) On the application of the Bubnov-Galerkin method to the solution of boundary value problems for regions of complicated form. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1537-1543. (A. A. Mullin) 33 #1584

(with Rvačev, V. L.) Some functionally closed classes of functions in k-valued logic. *Kibernetika (Kiev)* 1967, *no.* 2, 42-44 *(Russian); translated as Cybernetics* 3 (1967), *no.* 2, 32-34 (1969). (A. Rose) 43 #1818

(with Man'ko, G. P.; Rvačov, V. L.) The construction of a sequence of coordinate functions in solving Dirichlet and Neumann problems for regions of composite form. (Russian) *Differencial'nye Uravnenija* 4 (1968), 702-713. (A. A. Mullin) 38 #411

(with Rvačov, V. L.) R_k-functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 415-417. (H. B. Curry) 39 #1304

Škljarskiĭ, D. O.

* (with Čencov, N. N.; Jaglom, I. M.) Геометрические неравенства и задачи на максимум и минимум. (Russian) [Geometric inequalities and maximum and minimum problems] *Izdat. "Nauka", Moscow,* 1970. 335 *pp.* (R. P. Boas, Jr.) 44 #3208

Šklover, M. D.

Classical dynamical systems on the torus with continuous spectrum. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 113-124. (O. Hájek) 37 #1737

A certain problem of graph theory that is connected with random fields. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1526-1532. (B. Zelinka) 43 #8143

Sklovskaja, L. I.

On the stability of a finite difference scheme approximating the equations of underground hydrodynamics. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 120-122. *Izdat. Kazan. Univ., Kazan,* 1963. (J. H. Giese) 33 #5147

Sklyanskiĭ, A. L. See Skljanskiĭ, A. L.

Sklyarenko, E. G. See Skljarenko, E. G.

Sklyarevich, A. N. See Skljarevič, A. N.

Šklyarskiĭ, D. O. See Škljarskiĭ, D. O.

Skobec, T. Ja.

(with Berezovs'kiĭ, A. Ī.) Estimate of the total error of a certain algorithm of time optimal control. (Russian) *Mathematical Methods in Specialized Computing Techniques (Proc. Sem., Kiev,* 1967/68*), No.* 1 *(Russian) pp.* 32-46. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (O. Gürel) 42 #3982

Skobel'cyn, D. V.

(See Programming and computer techniques in experimental physics, 41 #9464)

Skoblja, N. S.

(with Krylov, V. I.; Korolev, N. I.) A remark on computing the integral $\int_0^\infty x^s e^{-x} f(x)dx$. (Russian) *Dokl. Akad. Nauk BSSR* 3 (1959), 3-7. (D. Q. Sanikidze (RŽMat 1960 #2330)) 40 #6738

* Таблицы для численного обращения преобразования Лапласа $f(x) = 1/2\pi i \int_{c-i\infty}^{c+i\infty} e^{xp} F(p)dp$. (Russian) [Tables for the numerical inversion of the Laplace transform $f(x) = 1/2\pi i \int_{c-i\infty}^{c+i\infty} e^{xp} F(p)dp$] *Izdat. "Nauka i Tehnika", Minsk,* 1964. 44 *pp.* (John Todd) 29 #725

The distribution of the zeros of polynomials connected with the numerical inversion of the Laplace transform. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 288-291. (A. S. Householder) 32 #4841

(with Pal'cev, A. A.) The integration of bounded functions with a Laguerre weight. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1965, *no.* 3, 15-23. (A. H. Stroud) 41 #6394

(with Krylov, V. I.) Convergence conditions and estimate of error for approximate inversion of the Laplace transform by means of Fourier series. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 763-766. (Edwin Hewitt) 38 #494

(with Krylov, V. I.) A remark on convergence and error estimate of an approximate inverse of the Laplace transform by means of the Legendre and Jacobi orthogonal polynomials. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 863-866. (R. R. Goldberg) 37 #480

* (with Krylov, V. I.) Справочная книга по численному обращению преобразования Лапласа. (Russian) [Handbook on the numerical inversion of the Laplace transform] *Izdat. "Nauka i Tehnika", Minsk,* 1968. 295 *pp.* (Walter Gautschi) 38 #1814

Skobov, V. G.

On the quantum theory of the propagation of electromagnetic waves in metals. *Fiz. Tverd. Tela* 6 (1964), 1675-1683 *(Russian); translated as Soviet Physics Solid State* 6 (1964), 1316-1321. (J. J. Quinn) 32 #3772

Quantum theory of coupled electromagneticacoustic waves in metals. *Fiz. Tverd. Tela* 6 (1964), 2655-2662 *(Russian); translated as Soviet Physics Solid State* 6 (1965), 2115-2120. (J. J. Quinn) 32 #3773

Skoda, Henri

Application de la cohomologie à croissance à la recherche de solutions majorées de l'équation: $id'd''V = \theta$ dans $\mathbf{C}^n$. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A512-A515. (C. P. Gupta) 41 #2382

d''-cohomologie à croissance lente dans $\mathbf{C}^n$. *Ann. Sci. École Norm. Sup.* (4) 4 (1971), 97-120. (C. P. Gupta) 44 #4241

Skof, Fulvia

Sull'attenuazione delle condizioni tauberiane. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 466-468. (A. Edrei) 29 #5024

Sull'andamento delle somme parziali delle serie di potenze con integrale assolutamente convergente. *Boll. Un. Mat. Ital.* (3) 18 (1963), 405-419. (R. Wilson) 29 #2366

Effetto dell'attenuazione delle condizioni tauberiane per le serie di potenze. *Ann. Mat. Pura Appl.* (4) 65 (1964), 329-340. (A. E. Ingham) 30 #387

(with Tanzi Cattabianchi, Luigi) Variazioni di segno condizionate e presenza di un punto singolare su un arco. *Riv. Mat. Univ. Parma* (2) 5 (1964), 233-288. (M. E. Noble) 35 #351

Fluttuazione lenta e punti singolari delle serie di potenze. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 921-930. (Author's summary) 41 #8639

Sulle funzioni $\overline{f}(n)$ aritmetiche additive asintotiche a c log n. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 931-938. (O. H. Körner) 42 #215

Un criterio di completa additività per le funzioni aritmetiche riguardante successioni di densità irregolare. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 48 (1970), 10-13. (L. Carlitz) 42 #7614

Skolem, Thoralf A.

Interpretation of mathematical theories in the first order predicate calculus. *Essays on the foundations of mathematics, pp. 218-225. Magnes Press, Hebrew Univ., Jerusalem,* 1961. (H. Ribeiro) 29 #4671

A proof of the quadratic law of reciprocity with proofs of two so-called "Ergänzungssätze". *Norske Vid. Selsk. Forh. Trondheim* 34 (1961), 18-24. (V. A. Golubev (RŽMat 1962 #6 A102)) 30 #4720

(See also Ljunggren, W., 29 #5)

Studies on the axiom of comprehension. *Notre Dame J. Formal Logic* 4 (1963), 162-170. (E. Mendelson) 29 #5716

* Selected works in logic. Edited by Jens Erik Fenstad. *Universitetsforlaget, Oslo,* 1970. 732 *pp.* (K. Inoue) 44 #2562

Skolka, Jiří

The use of information measure for aggregation of input-output tables. (Czech. English summary) *Kybernetika (Prague)* 1 (1965), 62-73. (From the author's summary) 32 #2187

Skolnick, Malcolm H.

Pion exchange currents in deuteron photodisintegration. Dispersion theory. *Phys. Rev.* (2) 136 (1964), B1493-B1514. (V. de Alfaro) 31 #4425

Skoog, Ronald A.

On the stability of pulse-width-modulated feedback systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp. 152-161. Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #2377

(with Blankenship, G. L.) Generalized pulse modulated feedback systems: Norms, gains, Lipschitz constants, and stability. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp. 129-140. Amer. Soc. Mech. Engrs., New York,* 1970. (Editors) 43 #4512

(with Blankenship, Gilmer L.) Generalized pulse-modulated feedback systems: Norms, gains, Lipschitz constants, and stability *IEEE Trans. Automatic Control* AC-15 (1970), 300-315. (P. Brunovský) 43 #4513

An uncertainty principle for functions vanishing on a half-line. *IEEE Trans. Circuit Theory* CT-17 (1970), 241-243. (G. Doetsch) 41 #8926

Skopec, M. B.

Approximate solution of a dynamic equation for a laminar boundary layer formed during the flow of incompressible gas with high transverse temperature gradient along a plate. (Russian) *Jaroslav. Gos. Ped. Inst. Dokl. Naučn. Konfer.* 2 (1964), *vyp.* 3, 194-203. (Şt. I. Gheorghiţă) 32 #8627

Skopec, Z. A.

A mapping of a third order surface with a double point onto the plane. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 190-193. (V. Manevič (RŽMat 1964 #8 A343)) 40 #1862

Mapping of a 4-dimensional space onto a 2-dimensional plane by means of a norm-curve. (Russian) *Trudy Ser. Vektor. Tenzor. Anal.* 12 (1963), 443-450. (D. J. Struik) 29 #6418

Mapping of space onto the plane by means of a tetrahedral cyclic complex. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 144-151. (W. Burau) 30 #489

(with Kazakova, G. G.) Certain special Cremona involutions. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 219-224. (V. Manevič (RŽMat 1967 #5 A474)) 38 #4475

(with Tefova, E. L.) The mapping of straight lines of a three-dimensional Euclidean space onto punctured circles. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 227-237. (D. Palman) 36 #768

(with Čegodaev, A. I.) Stereographic projection of a third-order ruled surface onto a plane. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 239-245. (E. J. F. Primrose) 35 #7187

A certain involutory Cremona transformation of order eight o the plane, and its generalization. (Russian) *Kostrom. Gos. Ped. Inst. Učen. Zap. Vyp.* 10 (1965), 29-36. (V. Koba (RŽMat 1966 #3 A393)) 40 #2677

(with Jaglom, I. M.) Laguerre transformations of the Lobačevskiĭ plane and bilinear transformations of a double variab (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 366-374. 33 #623

(with Jaglom, I. M.) Isomorphism of the Möbius and Laguerre transformation groups in noneuclidean planes. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 341-361. (E. J. F. Primrose) 41 #2517

Skopets, M. B. See Skopec, M. B.

Skopin, A. I.

(with Borevič, Z. I.) Extensions of a local field with a normal basis for principal units. (Russian) *Trudy Mat. Inst. Steklov.* 80 (1965), 45-50. (B. Gordon) 34 #5803

Ideal of relations. (Russian) *Trudy Mat. Inst. Steklov.* 80 (1965), 117-128. (K. Drbohlav) 34 #4343

Skordev, Dimit"r

(with Sendov, Bl.) On equations in words. (Russian. German summary) *Z. Math. Logik Grundlagen Math.* 7 (1961), 289-297. (Authors' summary) 31 #57

One more example of a recursively complete arithmetic operation. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math* 57 (1962/63), 1-7 (1964). (Author's summary) 33 #41

Frontal points and topologically irreducible elements. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 58 (1963/64), 203-218 (1965). (J. G. Ceder) 32 #4649; erratum, 42, p. 1822

Rekursiv vollständige arithmetische Operationen. (Russian summary) *C. R. Acad. Bulgare Sci.* 16 (1963), 465-467. (H. B. Curry) 29 #4676

On the concept of a recursively complete arithmetic operatio (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 59 (1964/65), 117-136 (1966). (V. Vučković) 34 #54

A class of primitive recursive functions. (Russian. English summary) *Annuaire Univ. Sofia Fac. Math.* 60 (1965/66), 105-111 (1967). (R. A. DiPaola) 38 #5625

(with Čakalov, Vladimir) Representation of positive linear functionals defined in the space of homogeneous real polynomials of a given even degree. (Bulgarian. Russian and English summarie *B''lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966 57-71. 34 #8160

Certain algebraic aspects of mathematical logic. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 62 (1967/68), 111 122 (1969). (E. Orlovsky) 43 #4647

Some simple examples of universal functions. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 45-46. (W. Taylor) 41 #1532; erratu 42, p. 1824

Skordev, G. S.

The resolvents of a continuous mapping. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 532-550. (Y. Kodama) 43 #5527

Mappings that raise dimension. (Russian) *Mat. Zametki* 7 (1970), 697-705. (Y. Kodama) 42 #1115

Skórnik, K.

A theorem on approximation in the class L^p. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 195-196. (G. Biriuk) 34 #547

Irregularities of distributions. *Prace Mat.* 12 (1969), 211-217. (S. R. Harasymiv) 40 #729

Skornjakov, Leo Anatoljewitsch

* Дедекиндовы структуры с дополнениями и регулярные кольца. (Russian) [Complemented modular lattices and regular rings] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1961. 198 *pp.* (R. S. Pierce) 29 #3404

Compact topological spaces. (Russian) *Dokl. Akad. Nauk SSSR* 140 (1961), 1263-1266. (C. H. Dowker) 29 #1621

Rings. (Russian) *Itogi Nauki (Algebra. Topology. 1962), pp. 59-79. Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1963. (B. M. Schein (Šaĭn)) 30 #110

Modules. (Russian) *Itogi Nauki (Algebra. Toplogy. 1962), pp. 80-89. Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1963. (B. M. Schein (Šaĭn)) 30 #111

* Complemented modular lattices and regular rings. *Oliver & Boyd, Edinburgh-London,* 1964. viii + 182 *pp.* (Editors) 30 #42

Rings chain-like from the left. (Russian) *In Memoriam: N. C Čebotarev (Russian), pp. 75-88. Izdat. Kazan. Univ., Kazan,* 1964. (B. Vinograde) 34 #190

Homological classification of rings. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp. 22-32. Izdat. "Nauka", Leningrad,* 1964. (S. E. Dickson) 36 #645

* (with Argunov, B. I.) Konum teoremleri. (Turkish) [Configu tional theorems] Translated by Şükûfe Yamantürk. Turkish Mathematical Society Publications, No. 23. *Türk Matematik Derneği, Istanbul,* 1964. viii + 59 *pp.* (Editors) 37 #5769

On Cohn rings. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 3, 5-30. (P. M. Cohn) 33 #1326

Einfache lokal bikompakte Ringe. *Math. Z.* 87 (1965), 241-251 (H. de Vries) 33 #2687

Alternative rings. *Rend. Mat. e Appl.* (5) 24 (1965), 360-372 (S. A. Amitsur) 35 #4273

Lattice theory. (Russian) *Algebra* 1964 *(Russian), pp.* 237-274. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. (J. Jakubík) 35 #94

Rings chain-like from the left. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 114-117. (B. Vinograde) 34 #191

Locally bicompact biregular rings. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 663. (J. R. Isbell) 33 #155

Modules. (Russian) *Algebra, Topology, Geometry,* 1965 *(Russian), pp.* 181-216. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. (E. Enochs) 36 #2643

Homological classification of rings. (Russian) *Mat. Vesnik* 4(19) (1967), 415-434. (E. Enochs) 37 #2815

Elizarov's quotient ring and the localization principle. (Russian) *Mat. Zametki* 1 (1967), 263-268. (E. Inaba) 35 #213

Lectures on homological algebra. (Russian) *Mat. Vesnik* 5(20) (1968), 71-113. (M. L. Laplaza) 37 #1430

* (with Mišina, A. P.) Абелевы группы и модули. (Russian) [Abelian groups and modules] *Izdat. "Nauka", Moscow,* 1969. 151 *pp.* (O. H. Kegel) 43 #1960

A characterization of the category of polygons. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 492-502. (A. Wiweger) 41 #298

When are all modules semichained? (Russian) *Mat. Zametki* 5 (1969), 173-182. (S. E. Dickson) 39 #1500

The homological classification of monoids. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1139-1143. (L. Fuchs) 40 #5764 (E)

Maximally ideal coverings of rings. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 208-212. (L. A. Koifman) 44 #2781

(with Mihalev, A. V.) Modules. (Russian) *Algebra. Topology. Geometry.* 1968 *(Russian), pp.* 57-100. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. (Chr. U. Jensen) 41 #6900

The decomposition of injective modules. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2 (16), 183-186. (S. E. Dickson) 43 #272

(with Jensen, Chr. U.) Direct limits of semisimple rings. (Russian) *Mat. Zametki* 7 (1970), 461-468. (J. Čižmár) 42 #3075

Left-chained semigroups. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 168-182. (B. Vinograde) 41 #7008

Erratum. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 689. (Editors) 43 #7534

Skornjakova, V. S.

Almost geodesic direction fields. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), *č.* 2, 87-100. (A. Haimovici) 41 #7571

An almost geodesic direction field in a Riemannian space. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), *č.* 2, 101-106. (A. Haimovici) 41 #7572

Skornyakov, L. A. See Skornjakov, Leo Anatoljewitsch.

Skorobagat'ko, A. A.

Certain comparison theorems for elliptic differential equations. (Ukrainian. Russian summary) *Vīsnik Kiīv. Univ.* 1962, *no.* 5, *Ser. Mat. Meh. vyp.* 2, 66-69. (Author's summary) 34 #4655

On the behaviour of *p*-analytic functions at angular points. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 696-698. (I. N. Baker) 30 #1254

Some comparison theorems for *p*-analytic and analytic functions. (Ukrainian. Russian summary) *Vīsnik Kiīv. Univ.* 1964, *no.* 6, 74-80. (I. N. Baker) 32 #7764

(with Položiĭ, G. M.) On a certain class of formulas of summary representations. (Russian) *Vyčisl. Mat. (Kiev) Vyp.* 1 (1965), 20-40. (I. M. Sheffer) 34 #5319

(with Položiĭ, G. M.) Remark on a class of summary representation formulas. (Russian. English summary) *Vyčisl. Mat. (Kiev) Vyp.* 2 (1966), 144-153. (E. L. Albasiny) 36 #4827

Skorobogat'ko, A. A. See Skorobagat'ko, A. A.

Skorobogat'ko, V. Ja.

* Исследование по качественной теории дифференциальных уравнений с частными производными. (Russian) [A study of the qualitative theory of partial differential equations] *Izdat. L'vovsk. Univ., L'vov,* 1961. 125 *pp.* (Editors) 29 #4968

(with Bobik, O. Ī.) On the sphere of maximum radius inscribed in a given region. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1963, 1567-1570. (Authors' summary) 29 #2713

The factorization of linear and non-linear differential operators into real factors. I. (Russian) *Ukrain. Mat. Ž.* 15 (1963), 217-223. (P. Ungar) 29 #1376

(with Bobik, O. Ī.) New uniqueness criteria for the solution of the first boundary-value problem for an equation of elliptic type and for the system of equations of an atomic reactor. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1964, 703-706. (Editors) 29 #2507

A method of separation of solutions in the theory of ordinary differential equations. (Russian) *Približ. Metod. Rešen. Differencial'. Uravnen. Vyp.* 2 (1964), 135-139. (L. Pintér) 32 #7830

(with Bobik, E. I.) The factorization of linear and nonlinear differential operators into real factors. II. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 783-798. (P. Ungar) 31 #1419

A method of point mappings in the theory of partial differential equations. (Russian) *Mathematical Physics (1965) (Russian), pp.* 136-149. *Naukova Dumka, Kiev,* 1965. (S. Zaidman) 33 #438

(with Bobik, O. Ī.) The structure of nodal lines of eigenfunctions of a second order differential equation of elliptic type. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 719-722. (Authors' summary) 33 #2949

Theorem of Budan-Fourier type applied to an ordinary differential equation of first order. (Russian) *Math. Phys. (1966) (Russian), pp.* 161-171. *Naukova Dumka, Kiev,* 1966. (B. S. Popov) 34 #4605

(with Dronjuk, N. S.; Bobik, O. Ī.; Ptašnik, B. Ĭ.) Branching continued fractions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 131-134. (Stanisław Hartman) 35 #2005

A generalization of the Lagrange theorem on quadratic irrationality. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 231-233. (Author's summary) 35 #6628

n-point planimetry. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 419-423, 476. (V. Komkov) 43 #6499

Equations of gravitation theory with higher derivatives. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 797-800, 860. (Author's summary) 44 #1389

Equations of the geodesics in mechanics with higher derivatives. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 897-900, 956. (Author's summary) 44 #1281

Skorobogatov, M. S.

(with Košarskiĭ, B. D.; Ašerov, A. T.) Conflict control problems. (Russian) *Èkonom. i Mat. Metody* 6 (1970), 910-917. (K. Wickwire) 44 #1411

Skorohod, A. V.

Random measures and their applications in the theory of random processes and statistics. (Russian) *Proc. All-Union Conf. Theory Prob. and Math. Statist. (Erevan,* 1958*) (Russian), pp.* 79-82. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1960. (A. T. Bharucha-Reid) 34 #2057

* Исследования по теории случайных процессов (Стохастические дифференциальные уравнения и предельные теоремы для процессов Маркова). (Russian) [Studies in the theory of random processes (Stochastic differential equations and limit theorems for Markov processes)] *Izdat. Kiev. Univ., Kiev,* 1961. 216 *pp.* (B. Rankin) 32 #3082a

Density of the transition probabilities of the solution of stochastic equations. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1961, *no.* 4, 32-36. (Č. Masaitis) 34 #6853

(with Mihalevič, V. S.) On the statistics of some processes. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 229-232. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (Z. Šidák) 32 #3195

Refinement of some limit theorems for sums of independent random variables. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 111-112. *Gosudarstv. Izdat. Političesk. i Naučn. Lit Litovsk. SSR. Vilnius,* 1962. (W. Hoeffding) 32 #6533

On stochastic differential equations. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 159-168. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (A. T. Bharucha-Reid) 34 #3645

The construction of Markov processes by means of multiplicative functions. (Russian) *Winter School in Theory of Probability and Math. Statistics held in Uzgorod,* 1964, *pp.* 191-216. *Izdat. Nauk Ukrain. SSR, Kiev,* 1964. (A. T. Bharucha-Reid) 31 #4089

* Случайные процессы с независимыми приращениями. (Russian) [Random processes with independent increments] *Izdat. "Nauka", Moscow,* 1964. 278 *pp.* (D. A. Darling) 31 #6280

* Конструктивные методы задания случайных процессов. (Russian) [Constructive methods of the representation of random processes] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1964. 35 *pp.* (L. Schmetterer) 33 #3344

On multiplicative, uniformly continuous families of random stochastic operators. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 283-285. (Petr Mandl) 30 #631

Branching diffusion processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 492-497. (K. Dietz) 29 #5295

Boundary conditions for certain Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 644-654. (Petr Mandl) 30 #2555

* Studies in the theory of random processes. Translated from the Russian by Scripta Technica, Inc. *Addison-Wesley Publishing Co., Inc., Reading, Mass.,* 1965. viii + 199 *pp.* B. Rankin) 32 #3082b

* (with Gihman, I. I.) Введение в теорию случайных процессов. (Russian) [Introduction to the theory of random processes] *Izdat. "Nauka", Moscow,* 1965. 654 *pp.* (A. T. Bharucha-Reid) 33 #6689

On absolute continuity of infinitely divisible distributions under translations. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 510-518. (Author's summary) 32 #6552

(with Slobodenjuk, N. P.) Limit theorems for random walks. I. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 660-671. (E. M. Klimko) 33 #4979 (with Slobodenjuk, N. P.) Limit distributions for additive functionals of a sequence of sums of independent identically distributed lattice random variables. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 2, 97-105. (Z. Šidák) 33 #763

Absolute continuity of a family of measures depending on a parameter. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 5, 129-135. (J. L. Doob) 35 #6197

Constructive methods of defining random processes. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 67-87. (J. L. Doob) 32 #3118

Nonlinear transformations of probabilistic measures in function spaces. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1269-1271. (R. M. Dudley) 33 #4988

Local structure of continuous Markov processes. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 38-41. (A. T. Bharucha-Reid) 33 #8034

Nonlinear transformations of random processes. (Russian. English summary) *Kibernetika (Kiev)* 1966, *no.* 1, 34-40. (Author's summary) 33 #7181

(with Slobodenjuk, N. P.) Limit theorems for random walks. II. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 56-67. (E. M. Klimko) 33 #4980

On local structure of continuous Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 381-423. (G. E. Denzel) 34 #3662

(with Slobodenjuk, N. P.) Asymptotic behavior of certain functionals of the Brownian motion. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 60-71. (A. T. Bharucha-Reid) 34 #8498

(with Gihman, I. I.) Densities of probability measures in function spaces. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 83-152. (L. A. Shepp) 34 #3609

On the densities of probability measures in functional spaces. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66*), Vol. II: Contributions to Probability Theory, Part* 1, *pp.* 163-182. *Univ. California Press, Berkeley, Calif.*, 1967. (K. Krickeberg) 35 #4979

Homogeneous Markov processes without discontinuities of the second kind. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 258-278. (I. Cuculescu) 37 #5934

* (with Gihman, I. I.) Стохастические дифференциальные уравнения. (Russian) [Stochastic differential equations] *Izdat. "Naukova Dumka", Kiev*, 1968. 354 *pp.* (A. Friedman) 41 #7777

(with Gatun, V. P.) An application of the theory of Markov chains to difference equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 880-883. (E. Seneta) 39 #3726

(with Daniljuk, Ī. Ī.; Koroljuk, V. S.; Mītropol'skiĭ, Ju. O.; Jadrenko, M. Ī.) Iosif Il'in Gihman: On the ocassion of his 50th birthday. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 363-366. (Editors) 37 #5078

* (with Gihman, I. I.) Introduction to the theory of random processes. Translated from the Russian by Scripta Technica, Inc. *W. B. Saunders Co., Philadelphia, Pa.-London-Toronto, Ont.*, 1969. xiii + 516 *pp.* (Editors) 40 #923

(with Ězov, Ī. Ī.) Markov processes which are homogeneous in the second component. I. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 3-14. (G. E. Denzel) 40 #929

A certain inversion formula for the Fourier transform in Hilbert space. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 122-127. (L. A. Shepp) 39 #6379

(with Ězov, Ī. Ī.) Markov processes which are homogeneous in the second component. II. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 679-692. (G. E. Denzel) 42 #2542

(with Gatun, V. P.) Difference equations and Markov chains. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 305-315. (D. A. Darling) 39 #6409

n-point plane geometry. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 31 (1969), 29-36, 104. (R. I. Pimenov) 43 #3896

* (with Slobodenjuk, N. P.) Предельные теоремы для случайных блужданий. (Russian) [Limit theorems for random walks] *Izdat. "Naukova Dumka", Kiev*, 1970. 303 *pp.* (Ja. Ju. Nikitin) 43 #8130

(with Ibramhalilov, I. Š.) A remark on the determination of the mean for Gaussian distributions in Hilbert space. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist.* 1970, *vyp.* 1, 86-89. (J. H. Halton) 43 #1241

A remark on homogeneous Markov processes with discrete component. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist.* 1970, *vyp.* 1, 216-221. (I. Cuculescu) 43 #1276

A note on Gaussian measures in Banach space. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 519-520. (Author's summary) 43 #3417

(with Ryžov, Ju. M.) Homogeneous branching processes with a finite number of types and with continuously changing mass. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 722-726. (B. Choczewski) 44 #6055

Positive additive functionals of a homogeneous process with independent increments. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 4 (1971), 171-178. (L. A. Shepp) 44 #3389

Skorokhod, A. V. See Skorohod, A. V.

Skorupski, A.

Alfvén waves in inhomogeneous plasmas. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 329-334. (Author's summary) 29 #4402

Skorupski, Andrzej

(with Kochman, Jan) The appearance of false pulses on the outputs of counter decoder. (Polish. English, French and Russian summaries) *Rozprawy Elektrotech.* 15 (1969), 751-757. (Authors' summary) 41 #7881

Skotnikova, G. A.

(with Gol'dina, N. M.) Ranges of values of certain coefficien systems of functions typically real in a ring. (Russian) *Trudy Mat Inst. Steklov.* 94 (1968), 130-142. (Z. Rubinstein) 37 #403

Skoug, D. L.

Generalized Ilstow and Feynman integrals. *Pacific J. Math.* 26 (1968), 171-192. (D. A. Woodward) 37 #6428

(with Johnson, G. W.) Operator-valued Feynman integrals of finite-dimensional functionals. *Pacific J. Math.* 34 (1970), 415-425. (A. C. Zaanen) 42 #3625

(with Johnson, Gerald W.) Operator-valued Feynman integrlas o certain finite-dimensional functionals. *Proc. Amer. Math. Soc.* 24 (1970), 774-780. (A. C. Zaanen) 40 #7882

(with Johnson, G. W.) An operator valued function space integral: A sequel to Cameron and Storvick's paper. *Proc. Amer. Math. Soc.* 27 (1971), 514-518. (M. Schilder) 42 #7855

Skovgaard, Helge

* Uniform asymptotic expansions of confluent hypergeometric functions and Whittaker functions. (Danish summary) Doctoral dissertation, University of Copenhagen, 1965. *Jul. Gjellerups Forlag, Copenhagen,* 1966. iv + 92 *pp. (loose errata)* (A. K. Agarwal) 43 #6469

Skov Larsen, Karen. See Larsen, Karen Skov.

Skovronskiĭ, Ja. M. See Skowroński, Janisław M.

Skowron, Andrzej

A syntactic translation of the machine-determined languages. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 603-607. (From the author's introductio 44 #1529

Languages determined by machine systems. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 321-326. (Author's summary) 44 #3813

ρ-included machine systems. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 327-329. (Author's summary) 44 #3814

Semantic translation of programming languages. *Z. Math. Logik Grundlagen Math.* 17 (1971), 39-46. (W. D. Maurer) 43 #8473

Skowroński, Janisław M.

(with Ziemba, S.) Boundedness of motion and existence and stability of the limit regime in strongly non-linear, non-autonomou vibrating discrete systems. (With discussion. French and German summaries) *Automatic and REmote Control (Proc. First Internat. Congr. Internat. Fed. Automat. Control, Moscow,* 1960*), Vol. II, pp.* 906-912. *Butterworths, London,* 1961. (Authors' summary) 33 #2889

(with Ziemba, Stefan) The limit domain in the large for nonlinear mechanical systems. (Russian and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibratio Warsaw,* 1962, *pp.* 357-359. *Panstwowe Wydawnictwo Naukowe, Warsaw,* 1964. (N. D. Sengupta) 32 #8564

The synthesable stability of the limit domain for response of general mechanical systems. (German summary) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 344-346. (Author's summary) 33 #2016

Nonlinear mechanical lumped systems. *Nonlinear Vibration Problems. Vol.* 7, *pp.* 7-224. *Pánstw. Wydawn. Nauk., Warsaw,* 1966. (Editors) 38 #1338

Skriabin, B. N. See Skrjabin, B. N.

Skripnik, Ī. V.

On a generalization of the concept of analytic function. (Ukrainian) *Teoret. Prikl. Mat. Vip.* 2 (1963), 36-47. (V. Romanko (RŽMat 1964 #5 B279)) 33 #5916

$\mathcal{A}$-harmonic forms on a compact Riemann surface. (Russian) *First. Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 602-607. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (P. Caraman) 33 #271

Periods of $\mathfrak{A}$-closed forms. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 772-773. (D. W. Kahn) 31 #765

The generalized de Rham theorem. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1965, 18-19. (Author's summary) 30 #4269

A-harmonic forms on a compact Riemannian space. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 174-176. (Author's summary) 30 #4270

A-harmonic fields with singularities. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 4, 130-133. (K. Svoboda) 34 #754

The Neumann a-problem. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 295-299. (From the author's summary) 33 #3315

On the question of the application of approximate methods in variational problems. (Russian) *Mathematical Physics, No.* 7 *(Russian), pp.* 156-163. *Naukova Dumka, Kiev,* 1970. (Z. Diviš) 43 #7993.

The solvability of nonlinear equations with monotone operators. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 32-35, 93. (Z. Diviš) 43 #6790

(with Martinenko, M. D.; Ščerbina, V. P.) General elliptic problems in plane domains with apertures. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 320-322, 381. (A. M. Abasov) 44 #608

Elliptic problems in multi-dimensional domains with slots. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 423-425, 476. (V. V. Barkovskiĭ) 43 #5154

The spectrum of a certain class of nonlinear operators. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 998-1000, 1053. (Z. Diviš) 44 #4602

kripnik, V. P.

Systems with transformed argument. Boundary-value problems and the Cauchy problem. (Russian) *Mat. Sb. (N.S.)* 62(104) (1963), 385-396. (M. Reghiş) 29 #1410

Degenerate systems and a small parameter multiplying the highest derivative. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 338-356. (C. S. Cloeman) 30 #4042

On a certain multi-point boundary value problem. (Russian) *Mathematical Physics* (1965) *(Russian), pp.* 150-157. *Naukova Dumka, Kiev,* 1965. (M. Urabe) 33 #6007

Systems with transformed argument in the case where the transformed argument depends on its solutions. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 274-281. (M. Reghiş) 33 #7603

A multi-point boundary value problem and some questions on the oscillatory nature of solutions of nonlinear equations. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 5, 105-113. (J. M. Skowroński) 36 #458

Certain systems with transformed argument in the case when the transformations of the argument depend on the time and on the solution. (Russian) *Differencial'nye Uravnenija* 4 (1968), 225-232. (J. M. Skowroński) 37 #3162

Degenerate systems and a small parameter at the derivative. (Russian) *Differencial'nye Uravnenija* 4 (1968), 646-658. (M. Ráb) 37 #4356

Certain systems with transformed argument of neutral type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 8 (75), 80-87. (R. F. Datko) 38 #3554

Stability in the neighborhood of a certain state. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 562-567. (Wolfdietrich Müller) 37 #6554

Systems with transformed argument in the case when the transformations of the argument are measurable with respect to time. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 71-79. (D. Wexler) 40 3011

Certain questions connected with the boundedness of solutions. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 203-213. (J. K. Hale) 41 #3878

Equations with transformed argument of neutral and superneutral type. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 611-624. (K. Smítalová) 42 #6383

Uniqueness and continuous dependence on initial conditions of the solutions of certain systems with transformed argument. (Russian) *Differencial'nye Uravnènija* 7 (1971), 1128-1129, 1143. (C. Corduneanu) 44 #7090

Integral equations with deviating argument. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1130-1132, 1143. (C. Corduneanu) 44 #7091

Uniqueness and continuous dependence on initial conditions of the solutions of systems with transformed argument. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 6 (109), 86-94. (G. S. Ladde) 44 #5590

krjabin, B. N.

A dynamic system with a discontinuous characteristic. *Prikl. Mat. Meh.* 32 (1968), 728-734 *(Russian); tarnslated as J. Appl. Math. Mech.* 32 (1968), 754-762 (1969). (Joseph C. Wilson) 39 #7204

Qualitative investigation of an equation of the theory of phase automatic frequency control. *Prikl. Mat. Meh.* 33 (1969), 340-344 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 327-332. (Joseph C. Wilson) 41 #2109

krjabina, L. P.

(with Rutner, Ja. F.) Application of the Wiener-Hopf method to the solution of a boundary value problem of the heat transfer equation. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1101-1106. (A. Langenbach) 34 #1726

(with Rutner, Ja. F.) The Green's function for the heat conduction equation in the half-plane with non-uniform boundary conditions. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 321-325. (R. Guenther) 35 #4611

(with Kval'vasser, V. I.; Rutner, Ja. F.) Mixed boundary value problems for the heat equation for an infinite strip. (Russian) *Comment. Math. Univ. Carolinae* 9 (1968), 1-12. (D. A. Lee) 38 #3614 (E)

(with Kval'vasser, V. I.; Rutner, Ja. F.) Correction to: "Mixed boundary value problems for the heat equation for an infinite strip". (Russian) *Comment. Math. Univ. Carolinae* 10 (1969), 37-40. (D. A. Lee) 40 #7644

rockiĭ, G. V.

The gravitational field of a homogeneous, uniformly moving sphere. (Russian) *Ural. Politehn. Inst.* 123 (1962), 85-88. (C. A. Hurst) 30 #4565

Skrotskiĭ, G. V. See Skrockiĭ, G. V.

Skrypnik, I. V. See Skripnik, Ī. V.

Skubenko, B. F.

(with Linnik, Ju. V.) Asymptotic distribution of integral matrices of third order. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 3, 25-36. (S. Knapowski) 29 #3459

The distribution of integer matrices and calculation of the volume of the fundamental domain of a unimodular group of matrices. (Russian) *Trudy Mat. Inst. Steklov.* 80 (1965), 129-144. (J. W. S. Cassels) 33 #7309

(with Pen, A. S.) An upper bound of the period of a quadratic irrationality. (Russian) *Mat. Zametki* 5 (1969), 413-418. (J. B. Roberts) 39 #6830

Skubic, Tomislav

On the application of the solution of the biharmonic equation with functions of a complex variable. (Slovenian. English summary) *Bull. Soc. Math. Phys. Serbie* 12 (1960), 33-40. (D. P. Rašković) 32 #6757

Skula, Ladislav

(with Novotný, M.) Über gewisse Topologien auf geordneten Mengen. *Fund. Math.* 56 (1964/65), 313-324. (A. Revuz) 30 #5264

Eine Bemerkung über Kardinalpotenzen. *Arch. Math. (Brno)* 1 (1965), 95-98. (G. Fodor) 34 #5686

Hereditary m-separability of an ordered space. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 90 (1965), 451-454. (S. Mardešić) 32 #4647

(with Jakubík, J.; Novotny, M.; Novák, Josef; Sekanina, M.; Sekaninová, Anna; Katriňák, T.; Fiala, F.; Kratochvíl, P.; Novák, Vítěslav; Korec, I.; Šmarda, B.) Summer session on ordered sets at Cikháj. *Časopis Pěst. Mat.* 91 (1966), 92-103. (Summary) 32 #7458

The subsets P^+ and P^- of the split interval. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 121-123. (A. H. Kruse) 37 #6190

Systeme von stetigen Abbildungen. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 45-52. (E. Halfar) 34 #6733

Prime elements in the semigroup of finite types of partially ordered sets in cardinal multiplication. *Arch. Math. (Brno)* 4 (1968), 97-101. (J. A. H. Shepperd) 43 #3174

$\mathfrak{M}$-ideal topologies in ordered sets. *Czechoslovak Math. J.* 18(93) (1968), 400-407. (J. Mayer) 37 #6219

System of layers of an ordered set. *Czechoslovak Math. J.* 19(94) (1969), 27-41. (V. S. Krishnan) 38 #4370

Ordered set of classes of compactifications. *Czechoslovak Math. J.* 19(94) (1969), 42-59. (H. Herrlich) 38 #6545

Completely irreducible $\mathfrak{M}$-ideals in a cardinal product. *Math. Ann.* 181 (1969), 237-241. (R. A. Melter) 39 #5438

On a reflective subcategory of the category of all topological spaces. *Trans. Amer. Math. Soc.* 142 (1969), 37-41. (J. F. Kennison) 40 #1969

Divisorentheorie einer Halbgruppe. *Math. Z.* 114 (1970), 113-120. (A. H. Clifford) 41 #7009

Skupień, Z.

Locally Hamiltonian graphs and Kuratowski theorem. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 615-619. (D. W. Walkup) 33 #1251

Locally Hamiltonian and planar graphs. *Fund. Math.* 58 (1966), 193-200. (W. T. Tutte) 33 #3962

On the locally Hamiltonian graphs and Kuratowski's theorem. *Prace Mat.* 11 (1968), 255-264. (W. T. Tutte) 37 #2630

(with Malec, M.) On the maximal planar graphs and the four colour problem. *Prace Mat.* 12 (1969), 205-209. (M. E. Watkins) 39 #5418

Skupień, Zdzisław

On the problem of coefficients of univalent functions. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 10 (1965), 89-91. (M. S. Robertson) 33 #5877

Škurba, V. V.

Ordering problems. *Kibernetika (Kiev)* 1967, *no.* 2, 63-65 *(Russian); translated as Cybernetics* 3 (1967), *no.* 2, 49-51 (1969). (H. Taylor) 42 #2793

(with Mihalevič, V. S.; Ermol'ev, Ju. M.; Šor, N. Z.) Complex systems and the solution of extremal problems. (Russian. English summary insert) *Kibernetika (Kiev)* 1967, *no.* 5, 29-39. (Editors) 44 #1464

Certain questions on the automated control of enterprises. (Russian. English summary insert) *Kibernetika (Kiev)* 1967, *no.* 5, 66-77. (Editors) 44 #1414

Skuridin, G. A.

(with Dubrovskiĭ, V. A.) Asymptotic expansions in wave mechanics. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964); 848-870. (Y. Shimizu) 29 #6808

Škurkina, Z. M.

Determination of forces acting on a sphere under non-steady motion along a circular path. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 98-109. (Author's summary) 33 #3559

Skurlov, V. M.

(with Šestopalov, V. P.) Fredholm integral equations of the second kind in the problem of the diffraction of a plane wave by a slit. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2173-2199. (L. Guggenbuhl) 41 #7921

Škurpelov, A. A.

(with Šihov, S. B.) Analysis of a nonstationary neutron transport equation with breeding. (Russian) *Computing Methods in Transport Theory (Proc. First All-Union Sympos., Novosibirsk, 1967) (Russian), pp.* 218-227. *Atomizdat, Moscow,* 1969. (J. P. Guiraud) 44 #7911

Škutin, L. I.

Method of solving certain boundary-value problems of the stability theory of cylindrical shells. *Dokl. Akad. Nauk SSSR* 190 (1970), 800-802 *(Russian); translated as Soviet Physics Dokl.* 15 (1970/71), 183-184. (L. H. Donnell) 42 #5494

Skvorcov, E. I.

(with Knjazev, A. V.) The averaging method in integral equations, and the generalized Bogoljubov method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1367-1374. (S. Fučik) 43 #6677

Skvorcov, G. V.

(with Petrov, V. A.) A problem on the analytic construction of controllers. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1399-1403. (Authors' summary) 29 #5677

Skvorcov, P. G.

A certain problem of number theory. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 3 (1959), 347-348. (V. E. Tarakanov (RŽMat 1961 #11 A134)) 44 #146

Fourier coefficients of functions with bounded γ-variation. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 22 (1964), 146-148. (F. Haršiladze (RŽMat 1966 #1 B94)) 36 #4242

Unconditional convergence of Fourier series for functions of bounded γ-variation. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 349-352. (M. Dostál) 36 #4243

Upper estimate for the variation of the sums of certain summation methods. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 205-209. (Yung-ming Chen) 37 #693

Skvorcov, V. A.

The theorem of du Bois-Reymond for generalized integrals and trigonometrical series which are Abel-Poisson summable. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 4, 16-20. (N. Dinculeanu) 29 #5053

A theorem of Cantor type for the Haar system. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 5, 3-6. (R. P. Boas, Jr.) 30 #401a

Interconnection between Taylor's *AP*-integral and James' P^2-integral. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 380-393. (J. Král) 34 #305

Concerning definitions of P^2- and *SCP*-integrals. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 6, 12-19. (D. W. Solomon) 34 #7765

A relation between certain integrals. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 4, 68-72. (R. Sikorski) 36 #324

Haar series with convergent subsequences of partial sums. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 784-786. (A. Peyerimhoff) 39 #7347

Calculation of the coefficients of an everywhere converging Haar series. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 349-360. (A. Peyerimhoff) 37 #1884

Differentiation with respect to nets, and Haar series. (Russian) *Mat. Zametki* 4 (1968), 33-40. (J. Mařík) 38 #4901

On the uniqueness of Haar series which are convergent with respect to subsequences of partial sums. (Russian) *Mat. Zametki* 4 (1968), 707-714. (V. M. Kokilašvili) 39 #6014

The generality of Cross' H^k-integral. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 5, 19-22. (F. Ustina) 40 #7714

A certain generalization of the Perron integral. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 4, 48-51. (N. Dinculeanu) 40 #5802

Skvorcova, M. G.

The relation between summability factors and transformation factors of Fourier series. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 225-226. (G. Goes) 36 #3059

Tests for the membership of a trigonometric Fourier series in a class. I. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 211-218. (Yung-ming Chen) 37 #1890

Multipliers of Fourier series. I. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 219. (G. Goes) 37 #4495

Some new theorems on classes of multipliers transforming Fourier series. II. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 220-228. (G. Goes) 37 #4496

The membership of an orthogonal series in a class. I. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 229-232. (S. Verblunsky) 37 #684

New tests for the membership of an orthogonal series in a class. I. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 233-239. (S. Verblunsky) 37 #685

Multipliers of Fourier series. (Russian) *Sibirsk. Mat. Ž.* 1 (1969), 135-143. (J. Albrycht) 39 #700

Skvortsov, V. A. See Skvorcov, V. A.

Skwarczyński, M.

(with Rosenthal, P. L.) On a subclass of three-dimensional harmonic functions defined by the Bergman-Whittaker operator. *Ann Acad. Sci. Fenn. Ser. A I No.* 419 (1968), 11 *pp.* (R. P. Gilbert) 39 #3012

A representation of a bounded function as infinite product in a domain with Bergman-Shilov boundary surface. *Pacific J. Math* 25 (1968), 177-183. (S. Hitotumatu) 37 #460

Bergman function and conformal mappings in several complex variables. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 139-140. (K. T. Hahn) 39 #5827

The invariant distance in the theory of pseudoconformal transformations and the Lu Qi-keng conjecture. *Proc. Amer. Math. Soc.* 22 (1969), 305-310. (K. T. Hahn) 39 #5826

A continuation theorem for holomorphic mapping into a Hilbert space. *Ann. Polon. Math.* 23 (1970/71), 281-284. (W. Barth) 42 #7950

Skyrme, T. H. R.

Kinks and the Dirac equation. *J. Mathematical Phys.* 12 (1971 1735-1743. (G. R. Allcock) 44 #7870

Slack, R. S.

A branching process with mean one and possibly infinite variance. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 139-145. (Bernard Harris) 37 #3661

Sladkov, S. I.

Transmission of a nonstationary signal through a linear system. *Radiotehn. i Èlektron.* 15 (1970), 836-838 *(Russian); translated as Radio Engrg. Electron. Phys.* 1970, 710-712. (P. Neumann) 43 #2782

Śladkowska, Janina

* Polynômes quasi-univalents et univalents. Variations élémentaires et polynômes extrêmaux. Societas Scientiarum Lodziensis, Sect. III, Nr. 64. *Państwowe Wydawnictwo Naukowe, Łódź,* 1960. 37 *pp.* (M. Zedek) 33 #258

Sur l'approximation de courbes arbitraires par les lignes de niveau des fonctions rationnelles. *J. Analyse Math.* 14 (1965), 409-431. (W. K. Hayman) 35 #4440

(with Charzyński, Zygmunt) Remarques sur l'approximation de l'arc simple par les arcs brisés, réguliers et arcs analytiques. *Bull. Soc. Sci. Lettres Łódź* 17 (1966), *no.* 1, 9 *pp.* (V. Ganapathy Iyer) 36 #3937

(with Charzyński, Z.) Algebraic functions and analytic variations of univalent functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 793-794. (I. Kra) 38 #4664

(with Charzyński, Z.) Fonctions algébriques et variations analytiques des fonctions univalentes. *Dissertationes Math. Rozprawy Mat.* 70 (1970), 77 *pp.* (Y. Komatu) 43 #495

Sladký, Karel

On the method of successive approximations for finding the optimal control of a Markov chain. (Czech. English summary) *Kybernetika (Prague)* 5 (1969), 167-176. (Author's summary) 39 #5151

Slagle, James R.

An efficient algorithm for finding certain minimum-cost procedures for making binary decisions. *J. Assoc. Comput. Mach.* 11 (1964), 253-264. (L. Hodes) 29 #4604

Automatic theorem proving with renamable and semantic resolution. *J. Assoc. Comput. Mach.* 14 (1967), 687-697. (Author's summary) 38 #3093

Generalizations of a complex analogue of the real Tchebichev polynomial theorem. *Amer. Math. Monthly* 75 (1968), 58-59. 37 #431

Slakter, Malcolm J.

A comparison of the Pearson chi-square and Kolmogorov goodness of-fit tests with respect to validity. *J. Amer. Statist. Assoc.* 60 (1965), 854-863. 32 #3223

Comparative validity of the chi-square and two modified chi-square goodness-of-fit tests for small but equal expected frequencies. *Biometrika* 53 (1966), 619-623. (Author's summary) 35 #2412

Slansky, Richard C.

Method of finding symmetry coordinates of complex molecules. *J. Chem. Phys.* 42 (1965), 2150-2153. (A. C. Hurley) 32 #3680

(with Rebbi, Claudio) Crossing matrices for SU(2) and SU(3). *Rev. Modern Phys.* 42 (1970), 68-86. (N. Mukunda) 40 #6870

Slater, John C.

Molecular orbital and Heitler-London methods. (With discussion *J. Chem. Phys.* 43 (1965), S11-S17. (Author's summary) 32 #2123

Space groups and wave-function symmetry in crystals. *Rev. Modern Phys.* 37 (1965), 68-83. (PA 68 #15000) 35 #2593 ater, John G.

The required correction to Copi's statement of *UG*. *Logique et Analyse (N.S.)* 9 (1966), 267. (D. Nelson) 35 #20

ater, Lucy Joan

Some experiences in price mapping. *Comput. J.* 6 (1963/64), 348-351. (Author's summary) 30 #5815

A dynamic programming process. *Comput. J.* 7 (1964), 36-39. (R. L. Graves) 32 #5387

* Вырожденные гипергеометрические функции. (Russian) [Confluent hypergeometric functions] Translated from the English by M. K. Kerimov. Library of Mathematical Tables, No. 39. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1966. vii + 249 *pp.* (Editors) 34 #4554

* Generalized hypergeometric functions. *Cambridge University Press, Cambridge,* 1966. xiii + 273 *pp.* (S. C. van Veen) 34 #1570

(See also Corrington, Murlan S., 41 #2065)

ater, Michael

On a class of order-types generalizing ordinals. *Fund. Math.* 54 (1964), 259-277. (L. Gillman) 29 #5736

On simple rings satisfying a type of "restricted" polynomial identity. *J. Algebra* 1 (1964), 347-354. (S. A. Amitsur) 30 #3118

Nucleus and center in alternative rings. *J. Algebra* 7 (1967), 372-388. (B. Vinograde) 36 #228

Ideals in semiprime alternative rings. *J. Algebra* 8 (1968), 60-76. (R. H. Oehmke) 38 #2183

The open case for simple alternative rings. *Proc. Amer. Math. Soc.* 19 (1968), 712-715. (K. Meyberg) 37 #267

Alternative rings with d.c.c. I. *J. Algebra* 11 (1969), 102-110. (M. F. Smiley) 38 #2184

The socle of an alternative ring. *J. Algebra* 14 (1970), 443-463. (K. Meyberg) 41 #5438

Alternative rings with d.c.c. II. *J. Algebra* 14 (1970), 464-484. (M. F. Smiley) 41 #1820

Prime alternative rings. I, II. *J. Algebra* 15 (1970), 229-243; *ibid.* 15 (1970), 244-251. (M. L. Tomber) 43 #309

Alternative rings with D. C. C. III. *J. Algebra* 18 (1971), 179-200. (M. F. Smiley) 43 #2038

ater, Morton L.

(with Thompson, Robert J.) A permanent inequality for positive functions on the unit square. *Pacific J. Math.* 14 (1964), 1069-1078. (O. Wyler) 29 #5846

(with Sasser, D. W.) On the inequality $\sum x_i y_i \geq (1/n)\sum x_i \cdot \sum y_i$ and the van der Waerden permanent conjecture. *J. Combinatorial Theory* 3 (1967), 25-33. (D. Ž. Djoković) 36 #190

On the equation $\phi(x) = \int_x^{x+1} K(\xi) f[\phi(\xi)]\, d\xi$. *Pacific J. Math.* 20 (1967), 155-166. (T. W. Mullikin) 34 #6471

(with Amos, D. E.) Polynomial and spline approximation by quadratic programming. *Comm. ACM* 12 (1969), 379-381. (Authors' summary) 43 #5681

(with Sasser, D. W.) On a generalization of the van der Waerden conjecture. *Portugal. Math.* 28 (1969), 91-95. (Morris Newman) 43 #7440

ater, Noel B.

Distribution problems and physical applications. *Compositio Math.* 16, 176-183 (1964). (A. T. Bharucha-Reid) 30 #5108

Gaps and steps for the sequence $n\theta$ mod 1. *Proc. Cambridge Philos. Soc.* 63 (1967), 1115-1123. (F. Supnick) 36 #114

attery, John C.

Time-reversed flows. *J. Fluid Mech.* 19 (1964), 625-630. (Author's summary) 30 #1709

Unsteady relative extension of incompressible simple fluids. *Phys. Fluids* 7 (1964), 1913-1914. (Author's summary) 30 #822

aughter, F. G., Jr.

(with Roberts, J. H.) Metric dimension and equivalent metrics. *Fund. Math.* 62 (1968), 1-5. (Anne K. Steiner) 37 #880

A note on inverse images of closed mappings. *Proc. Japan Acad.* 44 (1968), 628-632. (S. Armentrout) 39 #3466

(with Roberts, J. H.) Characterization of dimension in terms of the existence of a continuum. *Duke Math. J.* 37 (1970), 681-688. (K. Nagami) 42 #2444

avenas, Paulius

On the level of mathematical science in the old University of Vilnius (1579-1832). *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris, 1968), Tome IV: Histoire des Mathématiques et de la Mécanique, pp.* 155-157. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. 43 #3072

avić, Dušan V.

On summation of trigonometric series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 103-114. (H. P. Dikshit) 42 #768

On certain trigonometric polynomials. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 135-142. (F. C. Hsiang) 40 #7695

On summation of series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 302-319 (1970), 53-59. (S. M. Mazhar) 44 #7180

On a class of trigonometric series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 302-319 (1970), 61-66. (L. Balašov (RŽMat 1971 #6 B91)) 44 #5683

(with Tasić, Milan N.) On partial sums of slowly divergent numerical series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 338-352 (1971), 63-67. (W. Biegert) 43 #7808

On partial sums of trigonometric series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 338-352 (1971), 69-75. (G. Sunouchi) 43 #8213

Slavjanov, S. Ju.

Asymptotic representations for prolate spheroidal functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1001-1010. (E. Riekstiņš) 36 #2843

(with Buldyrev, V. S.) Uniform asymptotic expansions for solutions of an equation of Schrödinger type with two transition points. I. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 22, 70-84. (Z. Janković) 39 #3775

Asymptotic behavior of singular Sturm-Liouville problems for large parameter in the case of nearby transition points. (Russian) *Differencial'nye Uravnenija* 5 (1969), 313-325. (H. I. Freedman) 39 #7227

An application of the method of standard problems to perturbations of the Coulomb field. The discrete spectrum. (Russian) *Problems of Mathematical Physics, No. 4: Spectral Theory. Wave Processes (Russian), pp.* 125-134. *(errata) Izdat. Leningrad. Univ., Leningrad,* 1970. (G. Geymonat) 44 #7153

Slavnov, A. S.

(with Meyman, N. N.) On the upper limit of the π-N coupling constant. *Phys. Lett.* 10 (1964), 124-126. (C. Goebel) 32 #829

Slavnov, D. A.

Equations for regularized Green's functions. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 224-231 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 151-155. (P. J. Redmond) 31 #5517

Causality and locality conditions. *Jadernaja Fiz.* 9 (1969), 875-881 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 511-514. (S. Aramaki) 41 #1297

Slavutskiĭ, I. Š.

Generalized Voronoĭ-Grün congruence and the class number of an imaginary quadratic field. (Russian) *Trudy Naučn. Ob''ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 1 (1962), 82-84. (A. Andrianov (RŽMat 1964 #2 A172)) 35 #4191

A generalization of a lemma of Zolotarev. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 455-457. (D. H. Lehmer) 31 #1295

(with Kiselev, A. A.) The transformation of Dirichlet's formulas and the arithmetical computation of the class number of quadratic fields. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp.* 105-112. *Izdat. "Nauka", Leningrad,* 1964. (I. Slavutskiĭ (RŽMat 1964 #11 A108)) 36 #3748

On Mordell's theorem. *Acta Arith.* 11 (1965), 57-66. (L. Carlitz) 31 #159

An estimate from above and the arithmetical calculation of the class-number of real quadratic fields. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 161-165. (J. W. Andrushkiw) 32 #2400

Generalized Voronoĭ congruence and the number of classes of ideals of an imaginary quadratic field. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 118-126. (S. Chowla) 35 #4192

The simplest proof of Vandiver's theorem. *Acta Arith.* 15 (1968/69), 117-118. (W. G. H. Schaal) 38 #5745

L-functions of a local field, and a real quadratic field. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 2 (81), 99-105. (E. Inaba) 40 #4240

Sławianowski, Jan J.

Quantum relations remaining valid on the classical level. *Rep. Mathematical Phys.* 2 (1971), *no.* 1, 11-34. (H. S. P. Grässer) 44 #2447

Slawny, Joseph

On self-adjointness of the Hamiltonian in the Ruijgrok-Van Hove model. Self-adjointness of the Lee Hamiltonian. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 689-695. (W. Güttinger) 34 #7137

On differentiations of algebra of dynamical variables. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 411-414. (Y. Lehrer-Ilamed) 37 #5331

On implementability of canonical transformation for the anticommutation relations. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 821-824. (M. E. Mayer) 39 #1186

A converse to a theorem by Friedrichs. *Comm. Math. Phys.* 13 (1969), 175-179. (P. R. Chernoff) 40 #5224

Šlaža, Ju.

(with Barancev, R. G.) On the asymptotic structure of a boundary layer for large *M*. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 4, 83-85. (Ċ. K. Chu) 30 #1692

Ślebodziński, Władysław

* Formes extérieures et leurs applications. Vol. II. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1963. 271 pp. (W. M. Boothby) 29 #2738

Contribution à la géométrie différentielle d'un tenseur mixte de valence deux. *Colloq. Math.* 13 (1964), 49-54. (K. Yano) 30 #3438; erratum, 36, p. 1565

Reminiscences of a mathematician from the years 1903-1968. (Polish) *Wiadom. Mat.* (2) 12, 17-31 (1969). 39 #6724

Sur deux groupes infinis et continus. *Zastos. Mat.* 10 (1969), 17-30. (H. H. Johnson) 40 #3586

* Exterior forms and their applications. Revised translation from the French by Abraham Goetz. Monografie Matematyczne, Tom 52. *PWN-Polish Scientific Publishers, Warsaw,* 1970. 427 pp. *(errata insert)* (Editors) 42 #6742

Le principe dynamique d'É. Cartan. *Comment. Math. Prace Mat.* 14 (1970), 1-13. (A. Deprit) 43 #1487

Sledd, M. B.

(with Ho, D. V.; Jayne, J. W.) Recursively generated Sturm-Liouville polynomial systems. *Duke Math. J.* 33 (1966), 131-140. (W. Sangren) 32 #7836

Sledd, W. D.

On summability of dilutions. *J. London Math. Soc.* (2) 1 (1969), 371-374. (G. M. Petersen) 39 #7324

Sledd, W. T.

(with Hill, J. D.) Summability-(Z, p) and sequences of periodic type. *Canad. J. Math.* 16 (1964), 741-754. (S. K. Basu) 32 #2775

(with Hill, J. D.) Approximation in bounded summability fields. *Canad. J. Math.* 20 (1968), 410-415. (B. E. Rhoades) 36 #5561

(with Goffman, Casper) Essential cluster sets. *J. London Math. Soc.* (2) 1 (1969), 295-302. (A. J. Lohwater) 42 #3282

Coefficient estimates for Dirichlet series. *Trans. Amer. Math. Soc.* 150 (1970), 69-76. (K. Chandrasekharan) 42 #3461

On the relative strength of Karamata matrices. *Illinois J. Math.* 15 (1971), 197-202. (D. L. Prullage) 43 #5209

Sleeman, B. D.

The expansion of Lamé functions into series of associated Legendre functions of the second kind. *Proc. Cambridge Philos. Soc.* 62 (1966), 441-452. (F. M. Arscott) 34 #391

On parabolic cylinder functions. *J. Inst. Math. Appl.* 4 (1968), 106-112. (F. M. Arscott) 37 #3070

(with Arscott, F. M.) Multiplicative solutions of linear differential equations. *J. London Math. Soc.* 43 (1968), 263-270. (J. A. Marlin) 37 #510

Integral equations and relations for Lamé functions and ellipsoidal wave functions. *Proc. Cambridge Philos. Soc.* 64 (1968), 113-126. (Y. L. Luke) 36 #1941

Non-linear integral equations for Heun functions. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 281-289. (J. D. DePree) 41 #4169

Integral representations for solutions of Heun's equation. *Proc. Cambridge Philos. Soc.* 65 (1969), 447-459. (R. K. Saxena) 39 #1708

(with Arscott, F. M.) High-frequency approximations to ellipsoidal wave functions. *Mathematika* 17 (1970), 39-46. (N. Shenk) 42 #4896

Šleĭnikova, M. A.

Matrix elements of the irreducible representations of class 1 of the group SU(2, 1), and the generalized hypergeometric function. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 6 (150), 199-200. (J. Gil de Lamadrid) 42 #1948; erratum, 43, p. 1696

(with Vilenkin, N. Ja.) Integral correlations for Whittaker functions, and representations of the three-dimensional Lorentz group. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 185-191. (J. M. G. Fell) 43 #417

Sleĭter, Ljusi Dž. See Slater, Lucy Joan.

Slemrod, Marshall

Asymptotic behavior of a class of abstract dynamical systems. *J. Differential Equations* 7 (1970), 584-600. (T. Yoshizawa) 41 #3933

Nonexistence of oscillations in a nonlinear distributed network. *J. Math. Anal. Appl.* 36 (1971), 22-40. (R. A. Struble) 43 #7742

Slepčenko, A. N.

Orthogonal bases in L. (Russian) *Mat. Zametki* 6 (1969), 749-758. (E. Asplund) 41 #4224b

(with Rjazanov, B. V.) Orthogonal bases in L^p. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1159-1172. (A. J. Lazar) 43 #898

Slepcova, G. P.

(with Gorbačuk, M. L.; Temčenko, M. E.) Stability of motion of a rigid body suspended on a string and filled with fluid. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 5, 586-602. (Şt. I. Gheorghiţă) 40 #2271

Slepenčuk, K. M. See Slīpenčuk, K. M.

Slepian, David

Prolate spheroidal wave functions, Fourier analysis and uncertainty. IV. Extensions to many dimensions; generalized prolate spheroidal functions. *Bell System Tech. J.* 43 (1964), 3009-3057. (J. Meixner) 31 #5993

(with Sonnenblick, Estelle) Eigenvalues associated with prolate spheroidal wave functions of zero order. *Bell System Tech. J.* 44 (1965), 1745-1759. (R. Nicolovius) 32 #585

Some asymptotic expansions for prolate spheroidal wave functions. *J. Math. and Phys.* 44 (1965), 99-140. (J. Meixner) 31 #3640

(with Landau, H. J.) On the optimality of the regular simplex code. *Bell System Tech. J.* 45 (1966), 1247-1272. (A. V. Balakrishnan) 36 #2424; erratum, 36, p. 1568

(with O'Neil, P. V.) An application of Feussner's method to tree counting. *IEEE Trans. Circuit Theory* CT-13 (1966), 336-339. (L. W. Beineke) 43 #99

Group codes for the Gaussian channel. *Bell System Tech. J.* 47 (1968), 575-602. (F. J. Beutler) 38 #6879

A numerical method for determining the eigenvalues and eigenfunctions of analytic kernels. *SIAM J. Numer. Anal.* 5 (1968), 586-600. (D. Elliott) 38 #4063

The content of some extreme simplexes. *Pacific J. Math.* 31 (1969), 795-808. (G. Freilich) 40 #7948

(with Kadota, T. T.) Four integral equations of detection theory. *SIAM J. Appl. Math.* 17 (1969), 1102-1117. (I. Fenyő) 41 #2331

Slepian, L. I. See Slepjan, L. I.

Slepian, Paul

(with O'Neil, P. V.) The number of trees in a network. *IEEE Trans. Circuit Theory* CT-13 (1966), 271-281. (From the authors' summary) 40 #2452

(with Bentley, H. L.) Colanders. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 177-189. (S. Swaminathan) 36 #2104

(with Bentley, H. L.) Topology without the union axiom. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 339-352. (S. Swaminathan) 35 #6117

(with Bentley, H. L.) Bases without topologies. *Rev. Roumain Math. Pures Appl.* 12 (1967), 457-470. (S. Swaminathan) 35 #6118

* Mathematical foundations of network analysis. Springer Tracts in Natural Philosophy, Vol. 16. *Springer-Verlag New York Inc., New York,* 1968. xi + 195 pp. (I. Cederbaum) 40 4012

(with Bentley, H. L.) Uniformities via bases and colanders. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 591-607. (S. Swaminathan) 38 #2728

Slepjan, L. I.

(with Novožilov, V. V.) On Saint-Venant's principle in the dynamics of beams. *Prikl. Mat. Meh.* 29 (1965), 261-281 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 293-315 (1966). (A. Chakravorty) 33 #6913

Slepjan, V. A.

The number of irredundant tests, and measures of informativeness of a column for almost all binary tables. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 35-38. (G. K. Eagleson) 41 #4714

Slesarenko, A. P.

(with Kravčenko, V. F.; Rvačov, V. L.) The solution of certain classes of boundary value problems for systems of bodies of complex form by the method of R-functions. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1851-1858. (I. Aganović) 44 #1951

(with Rvačov, V. L.; Kravčenko, V. P.; Jarmoljuk, V. K.) The solutions of the external boundary value problems of hydrodynamics by the method of R-functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 547-550, 575. (I. O. Bohachevsky) 44 #3577

Slesarev, A. M.

The group of symmetric transformations of a generalized Gyldén problem. (Russian) *Differencial'nye Uravnenija* 3 (1967), 912-918. (B. Garfinkel) 36 #6203

Slesarev, I. S.

(with Sirotkin, A. M.) Application of variational functionals with variable boundaries to the construction of approximate methods of solution of the neutron transport equation. *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 529-534. (Authors' summary) 44 #5065

Slesoraĭtene, R. See Sliesoraitienė, R.

Slibar, Alfred

(with Paslay, P. R.) On the analytical description of the flow of thixotropic materials. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962), pp. 314-330. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (P. D. S. Verma) 29 #846

Sliesoraitienė, R.

An analogue of the Mahler-Sprindžuk theorem for polynomials of the second degree in two variables. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 627-634. (K. Mahler) 41 #8371

The Mahler-Sprindžuk theorem. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 367-374. (K. Mahler) 43 #157

An analogue of the Mahler-Sprindžuk theorem for certain third degree polynomials in two variables. I. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 545-564. (K. Mahler) 43 #4770

The Mahler-Sprindžuk theorem for third degree polynomials in two variables. II. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 791-813. (K. Mahler) 44 #160

Slifker, James F.

Exotic multiplications on S^3. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 322-359. (J. Stasheff) 32 #4695

Šlihting, G. See Schlichting, Hermann.

Slimac, O.

(with Băbut, V.) On certain functions harmonic in the sense of P. Humbert. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 21-27. (J. Aczél) 34 #6174

On some functional equations of Pexider type. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 12(26) (1967), 23-26. (Author's summary) 38 #4842

(with Babuţ, V.) System of equations with cyclic partial derivatives. (Romanian. French and Russian summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 12(26) (1967), 387-392. (Editors) 37 #6577

On some functional equations of Pexider-Alaci type. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27) (1968), *fasc.* 2, 285-289. (O. Em. Gheorghiu) 41 #2251

Šlinin, Ja. A.

Theory of modalities in contemporary logic. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 119-147. *Izdat. "Nauk", Moscow,* 1967. (A. Salomaa) 36 #2478

Slin'ko, A. M.

The equivalence of certain nilpotencies of right-alternative rings. (Russian) *Algebra i Logika* 9 (1970), 342-348. (M. Slater) 44 #272

Šliomis, M. I.

On oscillatory convective instability of a conducting fluid in a magnetic field. *Prikl. Mat. Meh.* 28 (1964), 678-683 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 833-839. (O. P. Bhutani) 33 #3571

Slīpenčuk, K. M.

Some methods for summation of series. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1963, 1559-1562. (M. Tomić) 29 #5018

Some special summation methods for infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 6 (37), 133-137. (R. Bojanic) 29 #3791

A theorem of Tauberian type for $(H^{(\alpha)},\lambda)$-methods of summation of double series. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1964, 312-314. (M. Tomić) 29 #5019

Non-linear transformations of some classes of sequences (products). (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 2 (39), 144-151. (C. V. Stanojevic) 29 #399

Theorems of Tauberian type for $(C_\theta^{(\alpha)},\lambda)$-methods of summing series. (Russian) *Izv. Vysš. Učebn. Zaved Matematika* 1964, *no.* 3 (40), 131-135. (J. H. Williamson) 29 #2575

Tauberian theorems for certain methods of summing series. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 100-103. (J. Korevaar) 30 #4100

Tauberian theorems for certain methods of summation of double series. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 153-158. (C. V. Stanojevic) 30 #1339

Tauberian theorems for generalized Hölder methods of negative order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 146-152. (C. V. Stanojevic) 31 #544

The summation of series by (C_θ, λ)-methods. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 166-170. (A. Peyerimhoff) 32 #1485

Summation of double series by the generalized Hölder method. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 126-131. (E. Kogbetliantz) 32 #2786

The absolute summability of series by Cesàro methods of negative order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 5 (48), 128-131. (RŽMat 1966 #3 B35) 32 #7999

Theorems of Tauberian type for absolute summability by Abel methods. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 135-139. (A. E. Ingham) 33 #464

Tauberian theorems for the summation of double series by Hölder methods. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 123-126. (RŽMat 1965 #11 B24) 35 #2028

On a Tauberian theorem for summation of series. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 32-35. (F. Ustina) 33 #4528

A Tauberian theorem for absolute summability by the Borel method. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 722-725. (From the author's summary) 35 #2029

Summation of integrals by the Hölder and Cesàro methods of negative order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 5 (54), 112-117. (E. Kogbetliantz) 34 #1755

A generalization of Hölder means and theorems of Tauberian type for these methods. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 1, 129-134. (M. Tomić) 33 #7753

Tauberian type theorems for absolute summability. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 90-93. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (J. Mařík) 43 #3691

On the question of an analog of Abel's theorem for infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 2 (57), 64-66. (O. E. Stanaitis) 35 #615

A general Tauberian theorem for infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matekatika* 1967, *no.* 8 (63), 72-75. (L. Berg) 35 #7030

A general theorem of Tauberian type and its application to (I^*,p_n,λ)-methods. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 12 (67), 58-64. (M. Tomić) 36 #5563

Tauberian type theorems for matrix methods of summation of series and their application. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 1 (68), 92-97. (A. Peyerimhoff) 37 #1845

The analogue of a certain Tauberian type theorem for infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 70-71. (G. Halász) 37 #4462

Conditions for the convergence of certain double infinite products. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp.* 59-62. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (O. E. Stanaitis) 43 #761

A certain general Tauberian type theorem for absolute summability of series, and its application to the Borel method. (Russian) *Izv. Vysš. Učebn. Zaved. Matekatika* 1969, *no.* 3 (82), 61-65. (Hubert Tietz) 40 #597

Conditions for the uniform convergence of infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 3 (94), 82-86. (D. Ž. Đoković) 43 #3679

Absolute summability of infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 6 (97), 107-111. (H.-H. Körle) 43 #6619

Certain tests for the convergence of infinite products. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 1 (104), 69-72. (E. Stipanić) 44 #677

Slīpenko, A. K.

Positional operatives of mappings. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 143-147, 187. (W. Narkiewicz) 39 #4310

Ideals of symmetric operatives. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 1093-1096, 1150. (B. M. Schein (Šaĭn)) 42 #6144

(with Feĭzullaev, R. B.) Ideal equivalences of operatives. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 3, 77-82. (B. M. Schein (Šaĭn)) 43 #401

Slisenko, A. O.

On certain algorithmic problems connected with arithmetic operations on duplexes. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 488-523. (H. B. Curry) 34 #2460

Example of a non-discontinuous but not continuous constructive operator in a metric space. (Russian) *Trudy Mat. Inst. Steklov* 72 (1964), 524-532. (A. Heyting) 33 #3928

On constructive non-separable spaces. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 533-536. (A. Heyting) 33 #3929

* (with Šanin, N. A.; Davydov, G. V.; Maslov, S. Ju. ; Minc, G. E.; Orevkov, V. P.) Алгорифм машинного поиска естественного логического вывода в исчислении высказываний. (Russian) [An algorithm for a machine scan of a natural logical deduction in a propositional calculus] Academy of Sciences of the USSR. V. A. Steklov Mathematical Institute. Leningrad Department. *Izdat. "Nauka", Moscow,* 1965. 39 *pp.* 33 #5405

Arithmetical operations on certain sets of duplexes. (Russian) *Trudy Mat. Inst. Steklov.* 93 (1967), 187-207. (G. Asser) 37 #3920

The construction of maximal continuity regulators of constructive functions. (Russian) *Trudy Mat. Inst. Steklov.* 93 (1967), 208-249. (Author's summary) 39 #1871

The maximal continuity regulators of constructive functions. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel Mat. Inst. Steklov. (LOMI)* 4 (1967), 201-208. (A. S. Ferebee) 39 #4000

(See also Studies in constructive mathematics and mathematical logic. Part I, 39 #2595)

(with Davydov, G. V.; Maslov, S. Ju.; Minc, G. E.; Orevkov, V. P.) A machine algorithm for establishing deductibility on the basis of the inverse method. (Russian) *Zap. Naucn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 16 (1969), 8-19. (E. Mendelson) 41 #3278

A certain property of enumerable sets that contain "hard to deduce" formulae. (Russian. English summary) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 20 (1971), 200-207, 288. (Pavel Strnad) 44 #6501

Slivinskiĭ, A. P.

A study of the singularities of spheroidal metrics. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1970, *no.* 9, 33-39. (N. Rosen) 44 #6300

Slivka, John

A one-sided nonparametric multiple comparison control percentile test: Treatments versus control. *Biometrika* 57 (1970), 431-438. (Author's summary) 42 #3940

On the law of the iterated logarithm. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 289-291. (Chr. Y. Pauc) 41 #7750

(with Severo, Norman C.) On the strong law of large numbers. *Proc. Amer. Math. Soc.* 24 (1970), 729-734. (C. Stone) 41 #4622

Slivnjak, I. M.

(with Flekser, M. Š.) Stationary primitives of piecewise constant random processes. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 219-224. (I. Cuculescu) 35 #1096

Stationary flows of homogeneous random events. (Russian) *Vestnik Har'kov. Gos. Univ.* 1966, *no.* 14, 73-116. (M. Loève) 35 #3757

Spectrum of the Schrödinger operator with a random potential. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 1104-1108. (D. ter Haar) 34 #8239

Śliwiński, Eugeniusz

On some oscillation problems for the equation $\Delta^{(n)}u - f(r)u = 0$ in a three-dimensional space. *Prace Mat.* 8 (1963/64), 119-120. (H. C. Howard) 30 #1308

On the Neumann problem in an n-dimensional half-space. *Prace Mat.* 11 (1967), 179-182. (G. Schober) 36 #1689

On some oscillation problems for elliptic equations of fourth order. *Prace Mat.* 11 (1968), 199-203. (E. Kreyszig) 37 #4397

On the oscillation properties of certain power series. *Prace Mat.* 12 (1969), 269-271. (F. P. Cass) 39 #7149

On some estimation of the first eigenvalue of the membrane equation. *Prace Mat.* 12 (1969), 273-276. (C. A. Swanson) 39 #7299

Sljahova, N. I.

(with Tjupa, V. G.) On algorithms of Turing type. (Ukrainian. Russian summary) *Zbirnik Prac' z Občis. Mat. i Tehn.* 1 (1961), 31-44. (1 *fold-out*) (A. P. Ershov) 33 #3849

Šljaĭfer, D. B.

(with Bačelis, R. D.; Melamed, V. G.) A solution of a Stefan type problem by the method of straight lines. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 585-594. (A. D. Solomon) 40 #8290

Šljapočnik, L. Ja.

A solution of the method of nets of a certain generalized problem with directional derivative for the Poisson equation on the plane. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 5, 76-82. (C. Ilioi) 44 #4925

Sljusarčuk, P. V.

Certain estimates of the rate of convergence to normal law. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 176-182. (P. Révész) 43 #8111

Sloane, N. J. A.

(with Berlekamp, E. R.) Restrictions on weight distribution of Reed-Muller codes. *Information and Control* 14 (1969), 442-456. (Authors' summary) 39 #5215

(with Riordan, John) The enumeration of rooted trees by total height. *J. Austral. Math. Soc.* 10 (1969), 278-282. (L. W. Beineke) 41 #1582

Hamiltonian cycles in a graph of degree 4. *J. Combinatorial Theory* 6 (1969), 311-312. (E. C. Milner) 38 #5668

(with Leech, John) New sphere packings in more than thirty-two dimensions. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 345-355. *Univ. North Carolina, Chapel Hill, N. C.*, 1970. (P. McMullen) 42 #6725

(with Seidel, J. J.) A new family of nonlinear codes obtained from conference matrices. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 363-365. (H. B. Mann) 42 #1573

(with Leech, John) New sphere packings in dimensions 9-15. *Bull. Amer. Math. Soc.* 76 (1970), 1006-1010. (H. Groemer) 42 #965

(with Whitehead, Donald S.) New family of single-error correcting codes. *IEEE Trans. Information Theory* IT-16 (1970), 717-719. (Authors' summary) 42 #9070

(with Berlekamp, Elwyn R.) Weight enumerator for second-order Reed-Muller codes. *IEEE Trans. Information Theory* IT-16 (1970), 745-751. (Authors' summary) 42 #9071

(with Leech, John) Sphere packings and error-correcting codes. *Canad. J. Math.* 23 (1971), 718-745. (H. Groemer) 44 #3211

Slobko, T. A.

Algebra norms on $C(G)$. *Amer. J. Math.* 92 (1970), 381-388. (R. C. Busby) 43 #412

Slobodeckiĭ, L. N.

Generalized Sobolev spaces and their application to boundary problems for partial differential equations. *Leningrad. Gos. Ped. Inst. Učen. Zap.* 197 (1958), 54-112. (O. V. Besov (RŽMat 1960 #7661)) 34 #3075

* (with Babič, V. M.; Kapilevič, M. B.; Mihlin, S. G.; Natanson, G. I.; Riz, P. M.; Smirnov, M. M.) Линейные уравнения математической физики (Russian) [The linear equations of mathematical physics] Edited by S. G. Mihlin. *Izdat. "Nauka", Moscow*, 1964. 368 *pp.* (R. Carroll) 30 #5028

(with Golovkin, K. K.; Il'in, V. P.) Embedding theorems for function spaces. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp.* 488-495. *Izdat. "Nauka", Leningrad*, 1964. (P. Lizorkin (RŽMat 1964 #9 B406)) 36 #3119

Continuous dependence on a parameter of the fundamental solution of a parabolic system. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 742-744. (J. L. Lions) 29 #376

(See also Linear equations of math. physics, 34 #6278)

* (with Babič, V. M.; Kapilevič, M. B.; Mihlin, S. G.; Natanson, G. I.; Riz, P. M.; Smirnov, M. M.) Lineare Differentialgleichungen der mathematischen Physik. Unter der Redaktion von S. G. Michlin. In deutscher Sprache herausgegeben von L. von Wolfersdorf. Mathematische Lehrbücher, Band XIV. *Akademie-Verla Berlin*, 1967. xiv + 348 *pp. (loose errata)* (Editors) 36 #1851

Slobodenjuk, N. P.

Estimation of the distribution function on the basis of a realization of a stationary process. (Russian) *Proc. All-Union Conf. Theory Prob. and Math. Statist. (Erevan, 1958) (Russian), pp.* 88-95. *Izdat. Akad. Nauk Armjan. SSR, Erevan*, 1960. (J. J. Mehlberg) 32 #4816

A limit theorem for additive functionals of a sequence of sums of independent random variables. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1963, 698-701. (J. Wolfowitz) 29 #2844

(with Skorohod, A. V.) Limit theorems for random walks. I. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 660-671. (E. M. Klimko) 33 #4979

(with Skorohod, A. V.) Limit distributions for additive functionals of a sequence of sums of independent identically distributed lattice random variables. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 2, 97-105. (Z. Šidák) 33 #763

(with Skorohod, A. V.) Limit theorems for random walks. II. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 56-67. (E. M. Klimko) 33 #4980

(with Skorohod, A. V.) Asymptotic behavior of certain functionals of the Brownian motion. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 60-71. (A. T. Bharucha-Reid) 34 #8498

* (with Skorohod, A. V.) Предельные теоремы для случайных блужданий. (Russian) [Limit theorems for random walks] *Izdat. "Naukova Dumka", Kiev*, 1970. 303 *pp.* (Ja. Ju. Nikitin) 43 #8130

Slobodetzky, L. N. See Slobodeckiĭ, L. N.

Slobodjan, Ju. S.

Riemannian spaces of dimension four admitting a family of completely geodesic surfaces. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 607-613. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. (W. Wrona) 33 #6548

Four-dimensional Riemannian spaces which admit families of three-dimensional totally geodesic surfaces. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1965, 410-412. (Author's summary) 32 #3008

Three-dimensional Riemannian spaces admitting completely geodesic surfaces. (Russian) *Vestnik Har'kov. Gos. Univ.* 1965, *no.* 3, 111-118. (Z. Nádeník) 33 #4861

Four-dimensional Riemannian spaces admitting families of completely geodesic hypersurfaces. (Russian) *Ukrain. Geometr. Sb Vyp.* 2 (1966), 90-97. (K. Svoboda) 36 #2087

A correction to: "Three-dimensional Riemannian spaces admitting families of completely geodesic surfaces". (Russian) *Ukrain Geometr. Sb. Vyp.* 2 (1966), 133-134. (Editors) 35 #2241

On three-dimensional Riemannian spaces which admit one-parameter families of totally geodesic surfaces. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 96-111. (L. W. Green) 37 #6873

On n-dimensional Riemannian spaces that admit families of totally geodesic surfaces. (Russian) *Ukrain. Geometr. Sb. Vyp.* 4 (1968), 85-98. (A. Fedenko (RŽMat 1968 #10 A482)) 40 #6459

The structure of complete Riemannian spaces that admit families of totally geodesic surfaces. (Russian) *Ukrain. Geometr. Sb Vyp.* 8 (1970), 125-138. (M. Craioveanu) 44 #953

(with Surjadnaja, V. G.) A certain property of Riemannian spaces that admit families of two-dimensional totally geodesic surfaces. (Russian) *Ukrain. Geometr. Sb. Vyp.* 8 (1970), 157-158. (M. Craioveanu) 44 #954

Slobodkina, F. A.

(with Kulikovskiĭ, A. G.) Equilibrium of arbitrary steady flows at the transonic points. *Prikl. Mat. Meh.* 31 (1967), 593-602 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 623-630 (1968). (A. I. Korotkin (RŽMeh 1968 #5 B19)) 43 #2907

Optimization of one-dimensional flows, when one of the chara teristic velocities passes continuously through zero. (Russian) *Prikl. Mat. Meh.* 32 (1968), 360-368. (V. Borisov (RŽMat 1969 #4 B448)) 42 #4275

Sloman, A.

Functions and rogators. *Formal Systems and Recursive Functions (Proc. Eighth Logic Colloq., Oxford, 1963), pp.* 156-175. *North-Holland, Amsterdam,* 1965. 35 #61

Słomiński, Józef

A theory of extensions of quasi-algebras to algebras. *Rozprawy Mat.* 40 (1964), 63 *pp.* (Đ. Kurepa) 31 #111

On certain existence theorems for models. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 769-775. (Editors) 32 #7409

On mappings between quasi-algebras. *Colloq. Math.* 15 (1966), 25-44. (A. C. Choudhury) 34 #1251

A theory of *P*-homomorphisms. *Colloq. Math.* 14 (1966), 135-162. (G. B. Seligman) 32 #2364

On systems of mappings between models. *Colloq. Math.* 17 (1967), 247-268. (S. Comer) 36 #3706

Peano-algebras and quasi-algebras. *Dissertationes Math. Rozprawy Mat.* 57 (1968), 60 *pp.* (G. Grätzer) 37 #5135

Slomson, A. B.

The monadic fragment of predicate calculus with the Chang quantifier and equality. *Proceedings of the Summer School in Logic (Leeds, 1967), pp.* 279-301. *Springer, Berlin,* 1968. (E. G. Fuhrken) 39 #1315

An undecidable two sorted predicate calculus. *J. Symbolic Logic* 34 (1969), 21-23. (K. Appel) 39 #2636

* (with Bell, J. L.) Models and ultraproducts: An introduction. *North-Holland Publishing Co., Amsterdam-London,* 1969. ix + 322 *pp.* (S. Garfunkel) 42 #4381

An algebraic characterization of indistinguishable cardinals. *J. Symbolic Logic* 35 (1970), 97-104. (M. Benda) 44 #2595

Slonovskiĭ, N. V.

Application of a method of construction of inequalities to Bessel functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 93-102. (H. A. Lauwerier) 35 #3101

Asymptotic expansion of a class of definite integrals. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 885-888. (Walter Gautschi) 35 #5837

Asymptotic expansions of Hankel transforms. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 5 (72), 86-90. (S. Drobot) 37 #3287

A certain class of integral representations and certain estimates of Bessel functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1101-1105. (H. A. Lauwerier) 41 #3833

The asymptotic expansion of the Hankel transform of functions that have branch points. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 196-199. (L. Berg) 42 #2256

Sloss, James M.

The shape of the sides of an arc. *Israel J. Math.* 1 (1963), 217-220. (Z. Nádeník) 29 #1568

Chebyshev approximation to zero. *Pacific J. Math.* 15 (1965), 305-313. (C. W. Clenshaw) 31 #1502

(with Finnila, Ronald) Existence and uniqueness theorems for a class of non-linear singular integral equations with application to a hydroelastic problem. *J. Math. Mech.* 16 (1966), 509-534. (V. M. Papadopoulos) 35 #684

Reflection and approximation by interpolation along the boundary for analytic functions. *Pacific J. Math.* 16 (1966), 545-555. (Gabor Szegö) 32 #8001

Approximation by interpolation of certain real compact analytic surfaces. *Math. Z.* 100 (1967), 272-281. (Bruno Brosowski) 36 #575

Reflection laws of high order elliptic differential equations in two independent variables with constant coefficients and unequal characteristics across analytic boundary conditions. *Duke Math. J.* 35 (1968), 415-434. (J. Mitchell) 37 #4402

Reflection laws of systems of second order elliptic differential equations in two independent variables with constant coefficients. *Pacific J. Math.* 24 (1968), 541-575. (R. C. MacCamy) 37 #1784

Some free boundary value problems in elasticity with electroelastic applications. *Comm. Pure Appl. Math.* 23 (1970), 705-741. (R. Muki) 42 #4060

Global solutions by parameter continuation for a class of nonlinear singular integral equations. *Comm. Pure Appl. Math.* 23 (1970), 841-865. (D. H. Hyers) 43 #3761

A bound for the spectral radius of a matrix. *J. Math. Anal. Appl.* 30 (1970), 658-664. (P. Botta) 41 #3499

The bending of space curves into piecewise helical curves. *Pacific J. Math.* 32 (1970), 231-239. (J. K. Shahin) 41 #2543

van der Slot, J.

Universal topological properties. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1966, ZW-011, 9 *pp.* (R. Engelking) 39 #3457

(with Herrlich, H.) Properties which are closely related to compactness. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 524-529. (R. Engelking) 36 #5898

* Some properties related to compactness. Mathematical Centre Tracts, 19. *Mathematisch Centrum, Amsterdam,* 1968. 56 *pp. (loose errata)* (R. Engelking) 40 #871

An elementary proof of the Hewitt-Shirota theorem. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-011, 3 *pp.* (R. Engelking) 39 #2126

An elementary proof of the Hewitt-Shirota theorem. *Compositio Math.* 21 (1969), 182-184. (L. Gillman) 40 #1970

A general realcompactification method. *Fund. Math.* 67 (1970), 255-263. (Z. Frolík) 41 #7636

Slotterbeck, Oberta A.

Finite factor coverings of groups. *J. Algebra* 17 (1971), 67-73. (N. D. Gupta) 42 #6121

Slover, Rebecca Ellen

Representations of a semigroup. *Trans. Amer. Math. Soc.* 120 (1965), 417-427. (E.-A. Behrens) 32 #5765

The Jacobson radical of row-finite matrices. *J. Algebra* 12 (1969), 345-359. (E. M. Patterson) 39 #250

(with Fletcher, P.; McCoy, R. A.) On boundedly metacompact and boundedly paracompact spaces. *Proc. Amer. Math. Soc.* 25 (1970), 335-342. (J. E. Vaughan) 41 #2641

Słowikowski, W.

The concept of $(\mathcal{F})$-sequence. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 465-470. (V. Pták) 30 #435

$\mathcal{F}$-sequences and inductive families of $\mathcal{F}$-spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 613-615. (V. Pták) 31 #3838

On extensions of sequentially continuous functionals to distributions. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 411-414. (V. Pták) 33 #561

An example of a linear functional with no extension to a distribution. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 415-419. (V. Pták) 33 #562

Extensions of sequentially continuous functionals in $(\mathcal{L},\mathcal{F})$-spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 455-458. (V. Pták) 32 #8110

Extensions of linear sequentially continuous functionals in inductive sequences of (*F*)-spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 575-578. (Editors) 36 #3106

On the theory of $(\mathcal{F})$-sequences. *Studia Math.* 25 (1965), 281-296. (V. Pták) 31 #3839

On the theory of inductive families. *Studia Math.* 26 (1965), 1-10. (V. Pták) 33 #6354

Fonctionnelles linéaires dans des réunions dénombrables d'espaces de Banach réflexifs. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A870-A872. (G. G. Gould) 33 #7843

Extensions of sequentially continuous linear functionals in inductive sequences of $(\mathcal{F})$-spaces. *Studia Math.* 26 (1966), 193-221. (A. Martineau) 33 #548

Absolutely 2-summing mappings from and to Hilbert spaces and a Sudakov theorem. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 381-386. (M. S. Ramanujan) 41 #2450

Sloyer, C. W.

(with BreMiller, R. S.) Fibre spaces and sheaves. *Amer. Math. Monthly* 74 (1967), 694-695. (H. B. Shutrick) 35 #4920

(with Nielsen, R.) On embedding in quasi-cubes. *Amer. Math. Monthly* 75 (1968), 514-515. (H. Herrlich) 37 #6900

(with Świerczewski, M.; Gulden, S.) Continuation in metric spaces. *Fund. Math.* 66 (1969/70), 199-201. (M. L. Marx) 41 #2036

(with Nielsen, R.) Quasi-uniformizability. *Math. Ann.* 182 (1969), 273-274. (D. V. Thampuran) 40 #3504

(with Nielsen, R.) Ideals of semi-continuous functions and compactifications of T_1 spaces. *Math. Ann.* 187 (1970), 329-331. (L. Gillman) 42 #8450

Sluckin, A. A.

Motion of a one-dimensional nonlinear oscillator under adiabatic conditions. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 978-988 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 676-682. (Y. Kozai) 29 #760

Slugin, S. N.

Some partially ordered objects in the theory of approximation methods. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 6 (37), 138-151. (Č. Masaitis) 30 #5107

(with Šaškov, V. M.) Combination of some variational methods in a Hilbert module over a series of vector spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 284-292. (W. V. Petryshyn) 34 #8251

A complex Hilbert lattice. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 215-226. (Edwin Hewitt) 31 #6116

Linear operators in a KB-space of L_p type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 127 (1967), *kn.* 1, 157-162. (T. Ando) 40 #7774

An analogue of the topology of the space of measurable functions in a *K*-lineal with unity. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 1306-1308. (E. Strzelecki) 38 #2572

Extension of the normal topology in a *K*-lineal. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 26-28. (E. Strzelecki) 38 #2573

Topological semiordered analogs of function spaces. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 1, 30-37. (J. Jakubík) 37 #1950

(with Kalašnikov, A. L.) S. L. Sobolev's Hilbert space as a variational structure. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 261-264. (E. Strzelecki) 42 #5008

Sluhaev, V. V.

Affine-symmetric vector fields. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 924-933. (W. Wrona) 32 #8268

Certain questions of equiaffine geometry of a vector field. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 181 (1965), *vyp.* 5, 68-75. (W. Wrona) 34 #722

Equiaffine geometry of a double field and its application to the theory of steady fluid motion. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 513-515. (M. Pinl) 33 #7961

Equiaffine-invariant nonholonomic surfaces of a liquid flow. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 74-80. (O. R. Burggraf) 37 #2495

Nonholonomic varieties V_n^m of zero extrinsic curvature. (Russian) *Ukrain. Geometr. Sb. Vyp.* 4 (1967), 78-84. (R. Ščerbakov (RŽMat 1968 #7 A578)) 41 #2544

Nonholonomic surfaces in E_3 that possess the absolute parallelism of Myller. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 196 (1968), 126-133. (Z. Nádeník) 43 #2614

Sluijter, Frans W.

Nonlinear effects in the reflection and refraction on a cold magnetoplasma. *Physica* 30 (1964), 1817-1832. (Roy R. Johnson) 31 #4535

Generalizations of the Bremmer series based on physical concepts. *J. Math. Anal. Appl.* 27 (1969), 282-302. (F. Stenger) 41 #4903

van der Sluis, A.

(See Kuiper, Nicolaas H., 39 #221)

Equilibration and pivoting in linear algebraic systems. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh, 1968), Vol. 1: Mathematics, Software, pp.* 127-129. *North-Holland, Amsterdam,* 1969. (L. W. Ehrlich) 41 #1201

Condition numbers and equilibration of matrices. *Numer. Math.* 14 (1969/70), 14-23. (R. P. Tewarson) 40 #6760

Stability of solutions of linear algebraic systems. *Numer. Math.* 14 (1969/70), 246-251. (J. D. P. Donnelly) 41 #1202

Domains of uncertainty for perturbed operator equations. *Computing (Arch. Elektron. Rechnen)* 5 (1970), 312-323. (W. M. Kincaid) 42 #8689

Condition, equilibration and pivoting in linear algebraic systems. *Numer. Math.* 15 (1970), 74-86. (N. Gastinel) 42 #7054

Upperbounds for roots of polynomials. *Numer. Math.* 15 (1970), 250-262. (E. R. Hansen) 42 #5441

Słupecki, Jerzy

(with Pogorzelski, Witold A.) A proof of the completeness of the classical propositional calculus on the basis of an axiomatic methodology. (Polish. English summary) *Acta Univ. Wratislav. No.* 12 (1962), 11-18. (È. Orlovskiĭ (RŽMat 1965 #4 A75)) 38 #980

* (with Borkowski, L.) Elements of mathematical logic and set theory. Translated from the Polish by O. Wojtasiewicz. International Series of Monographs in Pure and Applied Mathematics, Vol. 96. *Pergamon Press, Oxford-New York-Toronto, Ont.; PWN-Polish Scientific Publishers, Warsaw,* 1967. xii + 349 *pp. (loose errata)* (J. Drabbe) 37 #3904

(with Bryll, G.; Prucnal, T.) Some remarks on three-valued logic of J. Łukasiewicz. (Polish and Russian summaries) *Studia Logica* 21 (1967), 45-70. (D. H. Potts) 38 #2012

* (with Borkowski, Ludwik) Elementy logiki matematycznej i teorii mnogosci. (Polish) [Elements of mathematical logic and set theory] Third, corrected edition. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1969. 306 *pp. (errata insert)* (Editors) 41 #1501

Slušnis, A. See Slušnys, A.

Slušnys, A.

(with Paulauskas, V.) An estimate of the rate of convergence in the two-dimensional central limit theorem. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 591-595. (V. Fabian) 40 #5002

Slutskin, A. A. See Sluckin, A. A.

Šlyk, V. V.

Finite groups with hypersolvable pairs of subgroups. (Russian) *Dokl. Akad. Nauk BSSR* 15 (1971), 299-301. (D. L. Barnett) 44 #2816

van Slyke, Richard. See Van Slyke, Richard M.

Smagin, V. V.

(with Sobolevskiĭ, P. E.) Comparison theorems for the norms of the solutions of linear homogeneous differential equations in Hilbert spaces. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2005-2010. (V. V. Barkovskiĭ) 43 #3848

Smagina, V. I.

(with Gahov, F. D.) Exceptional cases of integral equations of convolution type and equations of first kind. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 26 (1962), 361-390. (D. Mangeron) 30 #1374

Exceptional cases of integral equations of convolution type and the corresponding equations of first kind in the class of functions of exponential growth. The equation of class (A). (Russian) *Dokl. Akad. Nauk BSSR* 7 (1963), 12-16. (F. Gahov (RŽMat 1963 #9 B305)) 31 #571

Exceptional cases of integral equations of convolution type and the corresponding equations of first kind in the class of functions of exponential growth. The equation of class (B). (Russian) *Dokl. Akad. Nauk BSSR* 7 (1963), 76-79. (F. Smithies) 29 #2621

Smajdor, A.

On superpositions of convex functions. *Arch. Math. (Basel)* 17 (1966), 333-335. (J. V. Ryff) 34 #1473

Regular iteration of functions with multiplier 1. *Fund. Math.* 59 (1966), 65-69. (I. N. Baker) 33 #7731

(with Kuczma, M.) Note on iteration of concave functions. *Amer. Math. Monthly* 74 (1967), 401-402. (V. Ganapathy Iyer) 35 #318

On monotonic solutions of a recurrence relation. *Ann. Polon. Math.* 19 (1967), 169-176. (M. Kuczma) 35 #5793

On convex iteration groups. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 325-328. (J. Aczél) 36 #1593

(with Smajdor, W.) On the existence and uniqueness of analytic solutions of a linear functional equation. *Math. Z.* 98 (1967), 235-242. (V. Ganapathy Iyer) 35 #2002

Remarks on monotonic solutions of a functional equation. *Aequationes Math.* 1 (1968), *no.* 1-2, 87-93. (M. Kuczma) 37 #4443

(with Kuczma, M.) Fractional iteration in the class of convex functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 717-720. (B. Forte) 39 #5976

On the existence of convex iteration groups. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 21-23. (J. Aczél) 39 #2925

(with Kuczma, M.) Regular fractional iteration. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 203-207. (J. Aczél) 44 #5642

Smajdor, Wilhelmina

On the existence and uniqueness of analytic solutions of the functional equation $\phi(z) = h(z,\phi[f(z)])$. *Ann. Polon. Math.* 19 (1967), 37-45. (S. B. Prešić) 37 #3232

(with Smajdor, A.) On the existence and uniqueness of analytic solutions of a linear functional equation. *Math. Z.* 98 (1967), 235-242. (V. Ganapathy Iyer) 35 #2002

Local analytic solutions of the functional equation $\phi(z) = h(z,\phi[f(z)])$ in multidimensional spaces. *Aequationes Math.* 1 (1968), *no.* 1-2, 20-36. (Fred Gross) 37 #3233

Analytic solutions of the equation $\phi(z) = h(z,\phi[f(z)])$ with right side contracting. *Aequationes Math.* 2 (1968), 30-38. (Fred Gross) 38 #441

Formal solutions of a functional equation. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 71-78. (B. Choczewski) 40 #4624

Local analytic solutions of the functional equation $\Phi(z) = H(z;\Phi[f_1(z)],\cdots,\Phi[f_m(z)])$. *Ann. Polon. Math.* 24 (1970/71), 39-43. (L. Losonczi) 42 #6452

(with Kuczma, M.) On the radius of convergence of series solutions of a functional equation. *Ann. Polon. Math.* 24 (1970/71), 233-240. (V. Ganapathy Iyer) 44 #675

(with Kuczma, M.) On the problem of uniqueness for solutions of a functional equation. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 301-304. (R. A. Rosenbaum) 44 #7172

Šmakal, Stanislav

(with Nádeník, Zbyněk) The global geometry of closed space curves. (Czech. German summary) *Časopis Pěst. Mat.* 95 (1970), 290-308. (F. Neuman) 43 #1040

Smale, Stephen

Stable manifolds for differential equations and diffeomorphisms. *Topologia Differenziale (Centro Internaz. Mat. Estivo, 1° Ciclo, Urbino,* 1962*), Lezione* 4, 31 *pp. Edizioni Cremonese, Rome,* 1963. (K.-T. Chen) 29 #2819

Dynamical systems and the topological conjugacy problem for diffeomorphisms. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 490-496. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #759

Stable manifolds for differential equations and diffeomorphisms. *Ann. Scuola Norm. Sup. Pisa* (3) 17 (1963), 97-116. (M. M. Peixoto) 29 #2818b

On the calculus of variations. *Differential Analysis, Bombay Colloq.,* 1964, *pp.* 187-189. *Oxford Univ. Press, London,* 1964. (J. Eells) 31 #6146

Morse theory and a non-linear generalization of the Dirichlet problem. *Ann. of Math.* (2) 80 (1964), 382-396. (J. Eells) 29 #2820

Diffeomorphisms with many periodic points. *Differential and Combinatorial Topology (A Symposium in Honor of Marston Morse), pp.* 63-80. *Princeton Univ. Press, Princeton, N. J.,* 1965. (M. F. Atiyah) 31 #6244

An infinite dimensional version of Sard's theorem. *Amer. J. Math.* 87 (1965), 861-866. (R. Beals) 32 #3067

On the Morse index theorem. *J. Math. Mech.* 14 (1965), 1049-1055. (R. S. Palais) 31 #6251 (E)

Structurally stable systems are not dense. *Amer. J. Math.* 88 (1966), 491-496. (W. R. Utz) 33 #4911

Differentiable dynamical systems. With an appendix by John Mather. *Bull. Amer. Math. Soc.* 73 (1967), 747-817. (M. M. Peixoto) 37 #3598; erratum, 39, p. 1593

Corrigendum: "On the Morse index theorem". *J. Math. Mech.* 16 (1967), 1069-1070. (R. S. Palais) 34 #5108

Differentiable dynamical systems. *Proc. Internat. Congr. Math. (Moscow, 1966)*, p. 139. *Izdat. "Mir", Moscow*, 1968. (Editors) 38 #1702

(See also Thom, René, 38 #1703)

Global stability questions in dynamical systems. *Lectures in Modern Analysis and Applications. I, pp.* 150-158. *Springer, Berlin*, 1969. (J. W. Robbin) 40 #2131

What is global analysis? *Amer. Math. Monthly* 76 (1969), 4-9. (R. S. Palais) 38 #5248

(See also Global analysis, 41 #7686)

Notes on differentiable dynamical systems. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.*, 1968*), pp.* 277-287. *Amer. Math. Soc., Providence, R. I.*, 1970. (Michael Shub) 42 #1152

(with Palis, J.) Structural stability theorems. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.*, 1968*), pp.* 223-231. *Amer. Math. Soc., Providence, R. I.*, 1970. (K. R. Meyer) 42 #2505

The Ω-stability theorem. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.*, 1968*), pp.* 289-297. *Amer. Math. Soc., Providence, R. I.*, 1970. (J. W. Robbin) 42 #6852

(with Abraham, R.) Nongenericity of Ω-stability. *Global Analysis (Proc. Sympos. Pure Math., Vol, XIV, Berkeley, Calif.*, 1968*), pp.* 5-8. *Amer. Math. Soc., Providence, R. I.*, 1970. (J. W. Robbin) 42 #6867

Differentiable dynamical systems. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 113-185. (Editors) 41 #7721

Problems on the nature of relative equilibria in celestial mechanics. *Manifolds--Amsterdam* 1970 *(Proc. Nuffic Summer School), pp.* 194-198. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin*, 1971. (J. W. Robbin) 43 #4429

Small, Charles

The Brauer-Wall group of a commutative ring. *Trans. Amer. Math. Soc.* 156 (1971), 455-491. (J. S. Hsia) 43 #1966

Small, Donald B.

On the functional equation $F(u) = F(1 - u) + F(u/1 - u)$, $u \in [0,1/2]$. *Aequations Math.* 6 (1971), 133-140. (Pl. Kannappan) 44 #7174

Small, Lance W.

(with Herstein, I. N.) Nil rings satisfying certain chain conditions. *Canad. J. Math.* 16 (1964), 771-776. (O. H. Kegel) 29 #3497

(with Procesi, Claudio) On a theorem of Goldie. *J. Algebra* 2 (1965), 80-84. (A. W. Goldie) 31 #3457

An example in Noetherian rings. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 1035-1036. (R. W. Gilmer, Jr.) 32 #5691

On some questions in Noetherian rings. *Bull. Amer. Math. Soc.* 72 (1966), 853-857. (W. E. Clark) 33 #4098

(with Herstein, I. N.) Nil rings satisfying certain chain conditions: An addendum. *Canad. J. Math.* 18 (1966), 300-302. (A. Rosenberg) 32 #5690

Orders in Artinian rings. *J. Algebra* 4 (1966), 13-41. (E. J. Taft) 34 #199

Correction and addendum: "Orders in Artinian rings". *J. Algebra* 4 (1966), 505-507. (E. J. Taft) 34 #200

Hereditary rings. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 25-27. (H. Bass) 32 #4178

Semihereditary rings. *Bull. Amer. Math. Soc.* 73 (1967), 656-658. (H. Bass) 35 #2926

Orders in Artinian rings. II. *J. Algebra* 9 (1968), 266-273. (W. H. Caldwell) 37 #6315

(with Procesi, Claudio) Endomorphism rings of modules over *PI*-algebras. *Math. Z.* 106 (1968), 178-180. (H. Tominaga) 38 #2167

A change of rings theorem. *Proc. Amer. Math. Soc.* 19 (1968), 662-666. (B. J. Meuller) 36 #6460

The embedding problem for Noetherian rings. *Bull. Amer. Math. Soc.* 75 (1969), 147-148. (B. J. Mueller) 38 #1120

An example in *PI*-rings. *J. Algebra* 17 (1971), 434-436. (L. P. Belluce) 42 #7704

Localization in *PI*-rings. *J. Algebra* 18 (1971), 269-270. (M. Chacron) 43 #6265

(with Herstein, I. N.) Rings of quotients of group algebras. *J. Algebra* 19 (1971), 153-155. (S. B. Conlon) 43 #6332

(with Herstein, I. N.) Regular elements in *P.I.*-rings. *Pacific J. Math.* 36 (1971), 327-330. (G. Betsch) 43 #7466

Small. Lynne B.

Mappings on simple rings with involution. *J. Algebra* 13 (1969), 119-136. (W. E. Baxter) 39 #6928

Small, T. Sheil. See Sheil-Small, T.

Smallwood, Richard D.

Optimum policy regions for Markov processes with discounting. *Operations Res.* 14 (1966), 658-669. 33 #3830

Šmandin, Ju. M.

On the question of the approximation of functions by de la Vallée-Poussin means. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 5 (84), 85-98. (K. Karták) 40 #6167

The summability of orthogonal series by certain linear methods. (Russian) *Mat. Zametki* 5 (1969), 753-762. (F. Móricz) 40 #6168

(with Storoženko, È. A.) The rate of approximation of orthogonal series by $(C,1)$-means. *Ukrain. Mat. Ž.* 22 (1970), 264-275. (V. I. Mel′nik) 41 #4124

Smaranda, D.

On the geodesics of the complex projective space V_{2p} with negative curvature. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 93-96. (Author's summary) 30 #3419

Sur les géodésiques du champ électro-gravifique Reissner-Weyl. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 449-453. (P. C. Vaidya) 31 #6653

Sur les groupes discrets des espaces du type Gödel. (English summary) *Bull. Soc. Roy. Sci. Liège* 36 (1967), 20-24. (J. Charles-Renaudie) 35 #7275

Sur les groupes discrets de l'espace affine A_3. (English summary) *Bull. Soc. Roy. Sci. Liège* 36 (1967), 25-31. (E. Mortantini) 35 #4800

A special class of spherically symmetric space-times and their embeddings. *Math. Balkanica* 1 (1971), 229-238. (D. Lovelock) 44 #5084

Šmarda, Bohumil

Additive and isotone functionals on partially ordered groups. (Spanish. English summary) *Mem. Fac. Ci. Univ. Habana Ser. Mat.* 1 (1963/64), *no.* 3, *fasc.* 2-3, 51-62. (W. C. Holland) 32 #146

(with Jakubík, J.; Novotný, M.; Novák, Josef; Sekanina, M.; Sekanina, Anna; Katriňák, T.; Fiala, F.; Kratochvíl, P.; Novák, Vítězslav; Korec, I.; Skula, L.) Summer session on ordered sets at Cikháj. *Časopis Pěst. Mat.* 91 (1966), 92-103. (Summary) 32 #7458

Topologies in *l*-groups. *Arch. Math. (Brno)* 3 (1967), 69-81. (R. L. Madell) 36 #6331

Some types of topological l-groups. (Russian summary) *Spisy Přírod. Fad. Univ. Brno* 1969, *čislo* 507, 341-351. (A. Revuz) 42 #7821

Smart, D. R.

Some examples of spectral operators. *Illinois J. Math.* 11 (1967), 603-607. (V. Istrăţescu) 36 #724

Fixed points in a class of sets. *Pacific J. Math.* 23 (1967), 163-165. (B. Fitzpatrick, Jr.) 35 #7326

Convergence in near-convex spaces. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 333-334. (K. Sundarensan) 38 #522

Smart, John Roderick

(with Newman, Morris) Symplectic modulary groups. *Acta Arith.* 9 (1964), 83-89. (I. Reiner) 29 #166

Parametrization of automorphic forms for the Hecke groups $G(\sqrt{2})$ and $G(\sqrt{3})$. *Duke Math. J.* 31 (1964), 395-403. (R. C. Gunning) 29 #2390

(with Knopp, Marvin Isadore) On Kloosterman sums connected with modular forms of half-integral dimension. *Illinois J. Math.* 8 (1964), 480-487. (E. Gottschling) 29 #2231

On modular forms of dimension -2. *Trans. Amer. Math. Soc.* 116 (1965), 86-107. (J. Lehner) 32 #7516

On Weierstrass points in the theory of elliptic modular forms. *Math. Z.* 94 (1966), 207-218. (E. Grosswald) 34 #148

(with Knopp, Marvin I.) Hecke basis theorems for groups of genus 0. *J. Res. Nat. Bur. Standards Sect. B* 74B (1970), 131-148. (M. Eichler) 43 #1924

Smart, W. M.

* Text-book on spherical astronomy. Fifth edition. *Cambridge University Press, Cambridge*, 1962. xii + 430 *pp.* (Editors) 31 #5660

Šmatkov, A. A.

On quasi-biholomorphic mappings. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 137, 185-192 (1964). (B. Chalmers) 32 #5922

On one of the classes of quasi-holomorphic mappings. (Russian. Armanian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 18 (1965), *no.* 2, 26-31. (J. Spilker) 32 #5916

On a class of quasi-biholomorphic mappings. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166 157-169 (1966). (K.-B. Gundlach) 35 #6864

Quasiholomorphic mappings of the space C_z^n that are conformal on complex lines. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 6, 479-496. (J. Siciak) 42 #4779

Šmatkov, V. A.

Approximation of functions in the class $H_{p,\, d\mu}$ by bounded analytic functions that satisfy supplementary interpolation conditions in the disc $|z| < 1$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 4 (107), 110-116. (C. Tanaka) 44 #6976

Šmatok, V. I.

(with Bojarčuk, A. K.) Homogeneous difference schemes for an ordinary differential equation of arbitrary order with discontinuous coefficients. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2068-2084. (W. S. Loud) 41 #4814

Smatov, T. S.

On the stability of a stationary system in a certain critical case. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 3, 21-31. (H. I. Freedman) 42 #612

On the stability of a fifth order system critical case. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 61-65. (K. W. Chang) 42 #6377

Smeĭl, S. See Smale, Stephen.

Šmelev, A. A.

The algebraic independence of certain transcendental numbers. (Russian) *Mat. Zametki* 3 (1968), 51-58. (R. Spira) 38 #5721; erratum, 42, p. 1823

A certain class of transcendental numbers. (Russian) *Mat. Zametki* 4 (1968), 341-348. (K. Mahler) 38 #1060

The algebraic independence of certain numbers. (Russian) *Mat. Zametki* 4 (1968), 525-532. (K. Mahler) 38 #5722

Algebraic independence of values of certain *E*-functions. (Russian) *Izv. Vyss. Ucebn. Zaved. Matematkia* 1969, *no.* 4 (83), 103-112. (J. B. Roberts) 40 #96

The approximation of a certain class of transcendental numbers. (Russian) *Mat. Zametki* 5 (1969), 117-128. (K. Mahler) 39 #133

Approximation of the roots of certain transcendental equations. (Russian) *Mat. Zametki* 7 (1970), 203-210. (J. Kubilius) 41 #8345

Šmelev, V. P. See Šmelov, V. P.

Šmelhaus, Jiří

The theory of elliptic functions of Weierstrass. (Czech) *Pokroky Mat. Fys. Astronom.* 12 (1967), 300-312. (Editors) 36 #4032

Šmel'kin, A. L.

A property of semi-simple classes of groups. (Russian) *Sibirsk. Mat. Ž.* 3 (1962), 950-951. (M. Krasner) 30 #3126

Wreath products and varieties of groups. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1063-1065. (L. G. Kovács) 29 #3539

Free polynilpotent groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 91-122. (O. H. Kegel) 29 #161

Wreath products and varieties of groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 149-170. (L. G. Kovács) 33 #1352

On soluble products of groups. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 212-220. (L. G. Kovács) 32 #2464

Abstract theory of infinite groups. (Russian) *Algebra* 1964 *(Russian), pp.* 47-82. *Akad. Nauk SSSR Inst. Naucn. Informacii, Moscow,* 1966. (L. G. Kovács) 35 #5496

Free polynilpotent groups. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 1024-1025. (F. Haimo) 34 #1393

Two remarks on free solvable groups. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 2, 95-109. (U. Schoenwaelder) 36 #1522

Complete nilpotent groups. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 2, 111-114. (R. Göbel) 35 #6761

A remark on my paper "Wreath products and varieties of groups". (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 443-444. (L. G. Kovács) 35 #1655

Free polynilpotent groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1115-1132. (K. D. Günther) 36 #2678

Solvable group varieties. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 307-310. (F. Haimo) 36 #6484

Polycyclic groups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 234-235. (R. Göbel) 36 #5225

(See also Neumann, Hanna, 40 #1460)

The lower central series of a free product of groups. (Russian) *Algebra i Logika* 8 (1969), 129-137. (J. Wiegold) 44 #294

(with Latyšev, V. N.) A certain problem of Kaplansky. (Russian) *Algebra i Logika* 8 (1969), 447-448. (M. Stojaković) 42 #7635

Free products of groups. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 616-620. (M. Greendlinger) 41 #1886

Smelkov, A. A.

Some problems in the dynamics of a rigid body with discontinuous mass change and methods of solving them. (Russian) *Leningrad. Politehn. Inst. Trudy No.* 226 (1963), 30-43. (W. Kaplan) 30 #750

Smelov, P. T.

A certain class of maximal Lie algebras of transformations that are connected with Jordan algebras. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 15 (1970), 267-278. (K. A. Ževlakov) 43 #7483

Šmelov, V. P.

(with Škarlet, Ju. M.) The electromagnetic field of a turn carrying an alternating current above a conducting plate. *Ž. Tehn. Fiz.* 34 (1964), 131-141 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 102-109. (Y. Hayashi) 32 #6865

Smentek, Zygfryd

The method of elimination for the solution of abstract differential equations. (Polish. English summary) *Zeszyty Nauk. Mat. Fiz. i Chem. Wyż. Szkoł. Ped. Gdańsk.* 7 (1967), 25-36. (S. Drobot 41 #5751

Smetanin, V. V.

Characteristic function for a triangular operator. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No.* 1 *(Russian), pp.* 94-98. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. (E. Gerlach) 34 #4912

The existence of a linear operator for a given characteristic function. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 169-172. (V. Poljakov (RŽMat 1964 #6 B522)) 33 #3109

On the inverse problem of the spectral analysis of linear nonselfadjoint operators. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 7 (1966), 77-87. (L. de Branges) 34 #6538

Smets, Ph.

(with Bartholomay, A. F.) Repetitive pattern and biological periodicity: A mathematical interpretation. *Math. Biosci.* 10 (1971), 333-351. (W. A. O'N. Waugh) 43 #4493

Smeur, A. J. E. M.

* De zestiende-eeuwse Nederlandse rekenboeken. (Dutch. English summary) [The sixteenth century arithmetics of the Netherlands] *Marinus Nijhoff, The Hague,* 1960. viii + 167 *pp.* (P. Bockstaele) 40 #7077

Some rare old arithmetics in binding R. 14.10 of the Plantin-Moretus Museum. (Dutch. English summary) *Sci. Hist.* 3 (1961), 190-201. (P. Bockstaele) 42 #4362

Johannes Enclen de Cusa and his ***Algorismus proiectilium,*** Zwolle 1502. I. Bio-bibliography. (Dutch. English summary) *Sci. Hist.* 4 (1962), 12-23. (P. Bockstaele) 42 #4363a

Johannes Enclen de Cusa and his ***Algorismus proiectilium,*** Zwolle 1502. II. Discussion of the ***Algorismus.*** (Dutch. English summary) *Sci. Hist.* 4 (1962), 63-75. *(1 plate)* (P. Bockstaele) 42 #4363b

(See also de Decker, Ezechiel, 43 #6038; and Stevin, Simon, 33 #5425)

The sixteenth century arithmetics of the Netherlands: A supplement to the bibliography. (Dutch. English summary) *Sci. Hist.* 8 (1966), 153-169. (P. Bockstaele) 42 #1637

The treatise on circle quadrature by Franco of Liège from circa 1050. (Flemish) *Med. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch.* 30 (1968), *no.* 11, 87 *pp.* (D. J. Struik) 38 #4263

Smeyers, P.

(with Iweins, P.) Sur le comportement asymptotique des oscillations linéaires du modèle homogène compressible. (English summary) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 164-176. (F. V. Pohle) 38 #891

Śmiałkówna, Henryka

(with Charzyński, Zygmunt) The general equation of extremal functions with respect to any differentiated functional. *Bull. Soc. Sci. Lettres Łódź* 12 (1961), *no.* 13, 16 *pp.* (M. Reade) 29 #6001

Smid, L. J.

(with Schaafsma, W.) Most stringent somewhere most powerful tests against alternatives restricted by a number of linear inequalities. *Ann. Math. Statist.* 37 (1966), 1161-1172. (M. Skibinsky) 33 #8060

Šmidov, F. I.

Countability of a set. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 115-117. (J. Mařík) 30 #1058

Properties of the derivative numbers and approximate derivative numbers of a finite function. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 679-711. (S. Marcus) 29 #5967

On a differential property of a function of two real variables. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 145-146. (H. Fast) 32 #5810

Differential properties of a measurable function of one variable. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 369-370. (J. Král) 33 #7467

Structure of the graph of a function of two variables. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 533-534. (H. Fast) 33 #7474

On the question of inclusion of a given function in the class of *VBG**-functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 1 (50), 170-173. (H. Fast) 33 #5799

On the structure of point sets in a three-dimensional space. (Russian) *Izv. Vysš. Učebn. Zaved Matematika* 1966, *no.* 2 (51), 123-126. (L. C. Young) 33 #3941

Šmidt, A. G.

Gravitational and capillary waves of a viscous gravitating fluid on the surface of a spherical layer. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 183-189. (V. N. Constantinescu) 32 #4968

(with Krasnoščekov, P. S.; Moiseev, N. N.) One class of problems in dynamics of viscous fluid. (Russian) *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963 *Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 265-282. *Izdat. "Nauka", Moscow,* 1965. (M. D. Friedman) 33 #3550

Oscillations of a viscous fluid of finite depth caused by an initial displacement of its free surface. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 287-297. (L. Dragoş) 33 #2064

Šmidt, Otto Jul′evič

* (with Černīkov, S. M.; Novikov, P. S.) Endlichkeitsbedingungen in der Gruppentheorie. Mathematische Forschungsberichte, XX. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1963. 88 *pp.* (Editors) 29 #4786

* Abstract theory of groups. Translated from the Russian by Fred Holling and J. B. Roberts. Translation edited by J. B. Roberts. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1966. viii + 174 *pp.* (J. S. Frame) 35 #238

(See also Breus, K. A., 33 #5432; Černikov, S. N., 44 #3828 and 44 #3824; and Šemetkov, L. A., 44 #3826)

Šmidt, R. A.

(with Jakovlev, A. V.) An embeddability condition in the case of a cyclic normal divisor of order 2^n. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 18 (1963), *no.* 3, 137-139. (M. Kolibiar) 30 #85

Šmidt, V. See Schmidt, Wolfgang.

Smiley, D. M.

(with Smiley, M. F.) The polygonal inequalities. *Amer. Math. Monthly* 71 (1964), 755-760. (E. R. Lorch) 30 #1384

(with Kelly, L. M.; Smiley, M. F.) Two dimensional spaces are quadrilateral spaces. *Amer. Math. Monthly* 72 (1965), 753-754. (Editors) 32 #345

Smiley, Malcolm F.

(with Smiley, D. M.) The polygonal inequalities. *Amer. Math. Monthly* 71 (1964), 755-760. (E. R. Lorch) 30 #1384

(with Kelly, L. M.; Smiley, D. M.) Two dimensional spaces are quadrilateral spaces. *Amer. Math. Monthly* 72 (1965), 753-754. (Editors) 32 #345

Langenhop's stabilization theorem. *J. Soc. Indust. Appl. Math.* 13 (1965), 555-557. (C. E. Langenhop) 34 #1088

Real Hilbert algebras with identity. *Proc. Amer. Math. Soc.* 16 (1965), 440-441. (R. Arens) 31 #591

An algorithmic proof of Muirhead's theorem. *J. Math. Sci.* 1 (1966), 85-86. (J. G. Mauldon) 34 #5163

(with Neal, S. R.) Valuations and integrations in lattices. *Rend. Circ. Mat. Palermo* (2) 16 (1967), 64-68. (O. Frink) 39 #5766

Inequalities related to Lidskiĭ's. *Proc. Amer. Math. Soc.* 19 (1968), 1029-1034. (R. C. Thompson) 38 #2154

An introduction to Hestenes ternary rings. *Amer. Math. Monthly* 76 (1969), 245-248. (J. D. Stein, Jr.) 39 #1484

Smiley, Timothy

The independence of connectives. *J. Symbolic Logic* 27 (1962), 426-436. (A. Heyting) 30 #3003

The logical basis of ethics. *Acta Philos. Fenn. Fasc.* 16 (1963), 237-246. (E. J. Lemmon) 31 #42

Relative necessity. *J. Symbolic Logic* 28 (1963), 113-134. (E. J. Lemmon) 31 #41

Smilgaĭs, A. A. See Smilgājs, A.

Smilgājs, A.

(with Mētra, I.) Certain possibilities of representing non-regular events by probabilistic automata. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 3 *(Russian), pp.* 253-261. *Izdat. "Zinatne", Riga,* 1968. (A. Mučnik (RŽMat 1969 #3 V243)) 40 #4031

Smiljanskiĭ, V. R.

Stokes multipliers for various systems of linear differential equations. I. (Russian) *Differencial′nye Uravnenija* 6 (1970), 483-496. (D. Izjumova) 43 #595

The Stokes multipliers for different systems of differential equations. II. (Russian) *Differencial′nye Uravnenija* 6 (1970), 1207-1210. (D. Izjumova) 42 #6324; erratum, 42, p. 1825

Smiriga, Nora

An integral representation of a continuous linear stochastic process with independent pieces. (Russian summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 24-34. (R. Jajte) 40 #927

Smirnoff, N. See Smirnov, Nikolaĭ Vasil′evič.

Smirnov, A. D.

On symmetry of the Dirac equation. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 25 (1970), *no.* 6, 614-617. (H. S. Green) 44 #7857

Smirnov, A. N.

The problem of uniform loading. *Kibernetika (Kiev)* 1967, *no.* 2, 60-62 *(Russian); translated as Cybernetics* 3 (1967), *no.* 2, 47-48 (1969). (From the author's text) 42 #7254

Smirnov, B. M.

On a theorem of von Neumann and Wigner. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 3, 38-46. (A. J. Coleman) 30 #881

Smirnov, D. M.

Generalized soluble groups and their group rings. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 535-537. (L. G. Kovács) 29 #1260

Groups of automorphisms of group rings of right-orderable groups. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 1, 31-45. (J. Jakubík) 31 #5906

On generalized solvable groups and their group rings. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 366-383. (O. H. Kegel) 34 #1394

Ordered multi-operator groups. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 433-458. (R. S. Pierce) 31 #2337

Right-ordered groups. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 6, 41-59. (F. Šik) 34 #5953

One-sided orders in groups with ascending central series. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 2, 77-88. (John Ellis) 35 #5372

(with Akataev, A. A.) Lattices of subvarieties of algebra varieties. (Russian) *Algebra i Logika* 7 (1968), *no.* 1, 5-25. (S. Bandyopadhyay) 39 #1380

(with Aleksandrov, P. S.; Eršov, Ju. L.; Kargapolov, M. I.; Kuz′min, E. N.; Taĭmanov, A. D.; Širšov, A. I.) Anatoliĭ Ivanovič Mal′cev: Obituary. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 159-170. *(1 plate)* (Editors) 37 #19

(See also Bibliography, 42 #4373)

Lattices of varieties, and free algebras. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1144-1160. (A. Astromoff) 40 #2591

(See also Mal′cev, A. I., 44 #142)

Smirnov, E. Ja.

On the problem of stabilizing nonstable motions of linear control systems with incomplete feedback. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 13, 75-81. (C. Kallina) 39 #3858

The stabilization of linear control systems with incomplete feedback at the expense of the choice of directions of the control actions. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 7, 61-67. (C. E. Langenhop) 40 #3941

(with Antončik, V. S.) On the question of the relay stabilization of programmed motions. (Russian) *Differencial′nye Uravnenija* 7 (1971), 538-539. (From the authors' introduction) 44 #1469

On the problem of the analytic construction of optimal regulators. (Russian) *Differencial′nye Uravnenija* 7 (1971), 2176-2186. (Wolfdietrich Müller) 44 #8026

Smirnov, G. A.

The proof of basic theorems in the theory of strong logical inference. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 148-161. *Izdat. "Nauka", Moscow,* 1967. (A. Salomaa) 37 #32

A property of Cesàro summability methods for integrals. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 107-117. (D. P. Gupta) 37 #1844

Smirnov, G. P.

On a nonlinear boundary value problem for a parabolic equation. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), 5-9. (B. Frank Jones, Jr.) 35 #588

On the solution of certain diophantine equations with quadratic forms. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), 11-15. (Chr. Karanikolov) 33 #103

On a parabolic system. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 105-108. (R. Guenther) 33 #7711

On the representation of zero by quadratic forms. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. no.* 2, 109-113. (R. Finkelstein) 34 #2531

On the solution of systems of Diophantine equations containing quadratic forms. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. no.* 2, 114-118. (R. Finkelstein) 34 #4204

Orthogonal matrices of integers and methods of their construction. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 316-321. (B. Diviš) 44 #1588

A certain well-posed boundary value problem for an ultrahyperbolic equation. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 322-325. (J. Chrastina) 43 #7765

On the question of reduction to canonical form of second order partial differential equations. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 326-328. (J. Chrastina) 43 #7756

Smirnov, Ju. F.

(with Sviridov, D. T.) The algebra of irreducible cubic tensors. *Dokl. Akad. Nauk SSSR* 163 (1965), 1138-1141 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 701-703. (J. Zak) 32 #7162

(with Novosadov, B. K.; Saulevich, L. K.; Sviridov, D. T.) The decomposition of direct products of irreducible representations of space groups. *Dokl. Akad. Nauk SSSR* 184 (1969), 82-84 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 50-52. 41 #3013

(with Ašerova, R. M.) Projection operators for classical groups. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 3 (147), 227-228. (M. E. Mayer) 40 #5785

(with Gurbanovič, I. S.; Tolstoi, V. N.) Calculation of fractional parentage coefficients for the $(1d - 2s)$-shell nuclei with the projection-operator method. *Czechoslovak J. Phys.* 21B (1971), 236-246. (N. E. Hurt) 43 #7138

Smirnov, Ju. M.

On transfinite dimension. (Russian) *Mat. Sb. (N.S.)* 58(100) (1962), 415-422. (C. H. Dowker) 29 #1615

Some questions of uniform topology. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 497-501. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #715

Über die Dimension der Adjunkten bei Kompaktifizierungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 230-232. (E. Nunnally) 33 #3266

Einige Bemerkungen zu meinem Bericht "Über die Dimension der Adjunkten bei Kompaktifizierungen". *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 750-753. (E. Nunnally) 33 #3267

Dimension of increments of proximity spaces and of topological spaces. *Dokl. Akad. Nauk SSSR* 168 (1966), 528-531 *(Russian); translated as Soviet Math. Dokl.* 7 (1966), 688-691; *supplementary note, ibid.* 7 (1966), 691-692. (H. de Vries) 35 #4886

On the dimension of remainders in bicompact extensions of proximity and topological spaces. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 141-160. (A. Lelek) 33 #6579

On the dimension of remainders in bicompact extensions of proximity and topological spaces. II. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 454-482. (A. Lelek) 35 #4887

(with Kolmogorov, A. N.; Ljusternik, L. A.; Tihonov, A. N.; Fomin. S. V.) Pavel Sergeevič Aleksandrov. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 4 (130), 4-7. (Editors) 33 #2517

Contractions to bicompacta and their connection with retractions and bicompact extensions. (Russian) *Fund. Math.* 63 (1968), 199-211. (R. Engelking) 38 #3830

Smirnov, Ju. N.

Level curves of μ in zones of instability for Mathieu's equation. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 546-547. (S. Fempl) 37 #1725

* (with Kuznecova, T. D.) Таблицы характеристических показателей для уравнений Матье. (Russian) [Tables of characteristic exponents for Mathieu's equations] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. 68 *pp.* 41 #2877

Smirnov, L. V.

An investigation of a certain system of nonlinear differential equations of arbitrary order. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1188-1197. (K. R. Schneider) 44 #4282

Smirnov, M. M.

* (with Babič, V. M.; Kapilevič, M. B.; Mihlin, S. G.; Natanson, G. I.; Riz, P. M.; Slobodeckiĭ, L. N.) Линейные уравнения математической физики. (Russian) [The linear equations of mathematical physics] Edited by S. G. Mihlin. *Izdat. "Nauka", Moscow,* 1964. 368 *pp.* (R. Carroll) 30 #5028

* Дифференциальные уравнения в частных производных второго порядка. (Russian) [Second-order partial differential equations] *Izdat. "Nauka", Moscow,* 1964. 206 *pp.* (Editors) 30 #5033

* (with Kosljakov, N. S.; Gliner, È. B.) Differential equations of mathematical physics. Translated by Scripta Technica, Inc.; translation editor: Herbert J. Eagle. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley and Sons], New York,* 1964. xvi + 701 *pp.* (Editors) 31 #1443

Some boundary-value problems for an equation of mixed composite type. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 923-928. (R. N. Goss) 29 #3768

* Second-order partial differential equations. Translated from the Russian by Scripta Technica, Ltd. Translation edited by S. Chomet. *Noordhoff, Groningen,* 1966. ii + 193 *pp.* (Editors) 35 #1907

The Cauchy problem for certain degenerating hyperbolic equations of the fourth order. (Russian) *Problems Math. Anal. Boundary Value Problems Integr. Equations (Russian), pp.* 80-87. *Izdat. Leningrad. Univ., Leningrad,* 1966. (P. Ungar) 35 #3265

* Вырождающиеся эллиптические и гиперболические уравнения. (Russian) [Degenerating elliptic and hyperbolic equations] *Izdat. "Nauka", Moscow,* 1966. 292 *pp.* (L. von Wolfersdorf) 36 #1850

* Problems on the equations of mathematical physics. Translated from the Russian by W. I. M. Wils. *Noordhoff, Groningen,* 1966. 101 *pp.* (Editors) 42 #8745

(See also Linear equations of math. physics, 34 #6278)

* (with Babič, V. M.; Kapilevič, M. B.; Mihlin, S. G.; Natanson, G. I.; Riz, P. M.; Slobodeckiĭ, L. N.) Lineare Differentialgleichungen der mathematischen Physik. Unter der Redaktion von S. G. Michlin. In deutscher Sprache herausgegeben von L. von Wolfersdorf. Mathematische Lehrbücher, Band XIV. *Akademie-Verlag, Berlin,* 1967. xiv + 348 *pp. (loose errata)* (Editors) 36 #1851

* Задачи по уравнениям математической физики. (Russian) [Problems on the equations of mathematical physics] Fifth supplemented edition. *Izdat. "Nauka", Moscow,* 1968. 112 *pp.* (Editors) 39 #598

The first boundary value problem for a certain equation of mixed type. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1663-1666. (L. von Wolfersdorf) 38 #3608

* Уравнения смешанного типа. (Russian) [Equations of mixed type] *Izdat. "Nauka", Moscow,* 1970. 295 *pp.* (L. Dragoş) 43 #724

A certain boundary value problem for an equation of mixed type in the case of an unbounded domain. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 7, 153-156. (Author's summary) 42 #8095

Smirnov, Nikolaĭ Vasil'evič

(See Tables, 34 #6899)

* (with Dunin-Barkovskiĭ, I. V.) Mathematische Statistik in der Technik. Kurzer Lehrgang. Neu Bearbeitet von W. Richter. Mathematik für Naturwissenschaft und Technik, Bd. 9. *VEB Deutsche Verlag der Wissenschaften, Berlin,* 1963. xii + 431 *pp.* (Editors) 30 #1598

Conical flows of an ideal incompressible fluid. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom* 19 (1964), *no.* 2, 107-115. (J. N. Newman) 29 #6718

* Tables of the normal probability integral, the normal density and its normalized derivatives. Translated by D. E. Brown. Mathematical Tables Series, Vol. 32. *A Pergamon Press Book. The Macmillan Co., New York,* 1965. xvi + 125 *pp.* (John Todd) 31 #860

* (with Bol'šev, L. N.) Таблицы математической статистики. (Russian) [Tables of mathematical statistics] *Izdat. "Nauka", Moscow,* 1965. 464 *pp.* (J. G. Wendel) 31 #6296

(with Sarmanov, O. V.; Zaharov, V. K.) A local limit theorem for the number of transitions in a Markov chain and its applications. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1238-1241. (J. L. Snell) 33 #3339

Convergence of distributions of order statistics to the normal distribution. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 3, 24-32. (W. Hoeffding) 34 #849

(See also Obituary: Nikolaĭ Vasil'evič Smirnov, 33 #5440)

* (with Bol'šev, L. N.) Таблицы математической статистики. (Russian) [Tables of mathematical statistics] Second edition. Tables processed and checked by L. S. Bark and E. S. Kedrova. Library of Mathematical Tables, No. 46. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1968. 474 *pp. (errata insert)* (Editors) 39 #4971

* (with Dunin-Barkovskiĭ, I. V.) Mathematische Statistik in der Technik. Neu bearbeitet von W. Richter. Zweite, überarbeitete Auflage. Mathematik für Naturwissenschaft und Technik, Band 9. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 479 *pp.* (Editors) 39 #3673

* (with Belugin, D. A.) Теория вероятностей и математическая статистика в приложении к геодезии. (Russian) [Probability theory and mathematical statistics applied to geodesy] *Izdat. "Nedra", Moscow,* 1969. 381 *pp.* (Editors) 42 #6888

* Теория вероятностей и математическая статистика. Избранные труды. (Russian) [Theory of probability and mathematical statistic Selected works] Commentaries by D. M. Čibisov, V. K. Zaharov, O. V. Sarmanov, E. S. Kedrova, M. A. Rybinskaja and L. N. Bol'šev. *Izdat. "Nauka", Moscow,* 1970. 290 *pp. (errata insert)* (Editors) 42 #30

Smirnov, R. V.

States of zero-mass fields with non-scalar phases. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1386-1388 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 935-936. (J. M. Jauch 32 #5132

Smirnov, S. G.

Smooth knots in a manifold of the homotopy type of a sphere. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1016-1019. (H. W. Guggenheimer) 38 #5234; erratum, 40, p. 1705

Smooth knots in a fibering over a circle. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 256-271. (A. Morimoto) 44 #1044

Smirnov, S. M.

(with Kočkun, V. S.) Simplification of the general linear programming problem. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 3, 30-35 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 3, 444-449 (1971). (J. Falk) 43 #8364

Smirnov, S. V.

Projective properties of multidimensional nomograms. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.,* 52-62. (E. M. Bruins) 34 #2225

Uniqueness of a nomogram of aligned points with one rectilinea scale. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 910-922. (D. Mazkewitsch) 29 #5404

On certain problems of uniqueness in the theory of webs. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 128-135. (A. Komissaruk (RŽMat 1964 #11A 365)) 33 #5157

Positive definite functions on algebraic nilpotent groups over a discrete field. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 524-525. (B. R. Gelbaum) 34 #1455

(with Potapov, M. K.) Saddle-points of functionals of uniform approximation. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1041-1044. (G. G. Lorentz) 35 #2045

Reconstruction of the Massau equation for a nomogram from adjusted points in terms of the Gronwall function. (Russian) *Nomographic Collection, No.* 6 *(Russian), pp.* 200-223. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. (L. Bal) 44 #6178

Čebyšev approximations and the theory of models. (Russian) *Algebra i Logika* 9 (1970), 73-79. (R. A. McGuigan) 43 #7836

Smirnov, V. A.

Imbedding syllogistics into predicate calculus. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 254-258. *Izdat. "Nauka", Moscow,* 1967. 36 #1288

Smirnov, V. G.

The asymptotic behavior of the solutions of the equation $w''(z) - \lambda^2 q(z)w(z) = 0$ as $\lambda\to\infty$. (Russian) *Moskov. Inst. Èlektron. Mašinostroenija--Trudy MIÈM* 1968, *vyp.* 4, 218-233. (M. Fedorjuk (RŽMat 1969 #5 B266)) 44 #2990

Smirnov, V. M.

A certain method of smooth interpolation of functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1330-1331. (C. de Boor) 41 #5839

Smirnov, Vladimir Ivnovič

* Lehrgang der höheren Mathematik. Teil III, 1. Dritte, berichtigte Auflage. Aus der fünften Russischen Auflage (1951) von L. Kaloujnine (Kalužnin) übertragen. Hochschulbücher für Mathematik, Band 3. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1961. ix + 283 *pp.* (Editors) 32 #172

(See also Manuscripts of L. Euler in the Archives of the Academy of Sciences of the USSR. Vol. I. Scientific description, 34 #5620)

Contemporary problems of the stability of solutions of differential equations in connection with the works of A. M. Ljapunov. (Russian) *Bull. Soc. Math. Phys. Serbie* 14 (1962), 25-60. (H. A. Antosiewicz) 32 #7886

* Lehrgang der höheren Mathematik. Teil II. Fünfte, berichtigte Auflage. Übersetzung aus dem Russischen nach der 12. Auflage von Klaus Krienes. Hochschulbücher für Mathematik, Band 2. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1963. xii + 583 *pp.* (Editors) 31 #1330

* Lehrgang der höheren Mathematik. Teil III, 2. Vierte, berichtigte Auflage. Hochschulbücher für Mathematik, Band 4. *VEB Deutscher Verlag der Wissenschften, Berlin,* 1963. xi + 599 *pp.* (Editors) 31 #1331

* Lehrgang der höheren Mathematik. Teil IV. Dritte, berichtigte Auflage. Hochschulbücher für Mathematik, Band 5. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1963. xii + 708 *pp.* (Editors) 31 #1332

* A course of higher mathematics. Vol. V [Integration and functional analysis]. Translated by D. E. Brown; translation edited by I. N. Sneddon. ADIWES International Series in Mathematics. *Pergamon Press, Oxford-New York; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. xiv + 635 *pp.* (W. H. Fleming) 29 #5964

* (with Lebedev, N. A.) Конструктивная теория функций комплексного переменного. (Russian) The constructive theory of functions of a complex variable] *Izdat. "Nauka", Moscow,* 1964. 438 *pp.* (R. P. Boas, Jr.) 30 #2152

* A course of higher mathematics. Vol. IV [Integral equations and partial differential equations]. Translated by D. E. Brown; translation edited by I. N. Sneddon. *Pergamon Press, Oxford-New York; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. xiii + 811 *pp.* (W. H. Fleming) 31 #1333

* A course of higher mathematics. Vol. II. Advanced calculus. Translated by D. E. Brown. Translation edited by I. N. Sneddon. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. xiv + 630 *pp.* (Editors) 32 #170

* A course of higher mathematics. Vol. III. Part one. Linear algebra. Translated by D. E. Brown. Translation edited by I. N. Sneddon. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. ix + 324 *pp.* (Editors) 32 #171

* A course of higher mathematics. Vol. III. Part two. Complex variables. Special functions. Translated by D. E. Brown. Translation edited by I. N. Sneddon. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. x + 700 *pp.* (Editors) 32 #173

Recollections of Vladimir Andreevič Steklov. (Russian) *Trudy Mat. Inst. Steklov.* 73 (1964), 5-13. 30 #1918

(See also Manuscripts of L. Euler in the Archives of the Academy of Sciences of the USSR. Vol. II. Works on mechanics. Part I, 34 #5621; Problems of mathematical analysis. Boundary value problems and integral equations, 34 #6279; Goluzin, G. M., 36 #2793; Leonhard Euler: Correspondence: Annotated bibliography, 36 #1270; and Lebedev, N. A.; Lozinskiĭ, S. M., 35 #11)

(with Lozinskiĭ, S. M.) To the memory of Isidor Pavlovič Natanson (Feb. 8, 1906 to July 3, 1964). (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 5-14. (Editors) 39 #1274

* (with Lebedev, N. A.) Functions of a complex variable: Constructive theory. Translated from the Russian by Scripta Technica Ltd. *The M.I.T. Press, Cambridge, Mass.,* 1968. 488 *pp.* (Editors) 37 #5369

(See also Problems in mathematical analysis, 38 #4793; History of national mathematics in four valumes. Vol. 3: 1917-1967, 38 #5566; Ladyženskaja, O. A.; Lozinskiĭ, S. M.; Mihlin, S. G., 37 #3898; Manuscript legacy of academician Alekseĭ Nikolaevič Krylov, 40 #2510; and Problems of mathematical analysis. No. 2: Linear operators and operator equations, 41 #7453)

(with Poljahov, N. N.; Ogorodnikov, K. F.) Mathematics, mechanics and astronomy at Petersburg-Leningrad University. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 1, 5-28. (Authors' summary) 39 #1271

* Lehrgang der höheren Mathematik, Teil III, 2. Siebente Auflage. Übersetzt von Lothar Uhlig aus dem Russischen nach der fünften Auflage. Hochschulbücher für Mathematik, Band 5. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1970. xi + 599 *pp.* (Editors) 42 #1

(See also Mathematics in the St. Petersburg-Leningrad University, 43 #17)

Smirnov, Ye. Ya. See Smirnov, E. Ja.

Smirnova, E. D.

(with Tavanec, P. V.) Semantics in logic. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 3-53. *Izdat. "Nauka", Moscow,* 1967. (H. B. Curry) 37 #48

Smirnova, G. N.

Rectilinear congruences in three-dimensional seminoneuclidean spaces. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 375-384. 33 #652

The Cauchy problem for parabolic equations degenerating at infinity. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 591-604. (Oldřich Horáček) 33 #7707

Smirnova, I. M.

* (with Aĭzerman, M. A.; Gusev, L. A.; Rozonoèr, L. I.; Tal′, A. A.) Логика. Автоматы. Алгоритмы. (Russian) [Logic, automata and algorithms] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1963. 556 *pp.* (F. Dejean) 29 #5690

* (with Aĭzerman, M. A.; Gusev, L. A.; Rozonoèr, L. I.; Tal′, A. A.) Logik--Automaten--Algorithmen. Aus dem Russischen übersetzt von Rudolf Herschel. *R. Oldenbourg Verlag, Munich-Vienna,* 1967. x + 431 *pp.* (Editors) 35 #1411

* (with Aĭzerman, M. A.; Gusev, Leonid A.; Rozonoèr, L. I.; Tal′, A. A.) Logic, automata, and algorithms. Translated from the Russian by Scripta Technica, Inc. Translation editor George M. Kranc. Mathematics in Science and Engineering, Vol. 79. *Academic press, New York-London* 1971. xii + 433 *pp.* (Editors) 43 #3044

Smirnova, L. I.

Geometry of the three-dimensional space with the absolute $x^3 + y^3 + z^3 - 3xyz = t^3$, $t = 0$. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 254-288. (E. Siwek) 44 #911

On the geometry of three-dimensional space with a degenerate Euclidean metric. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 289-309. (E. Siwek) 44 #3188

Smirnova, T. N.

(See Mihlin, S. G., 34 #3747)

Smirnova, V. N.

(with Neĭmark, Ju. I.; Sterlin, A. M.) On investigating the stability of difference methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 517-533. (M. Zlámal) 38 #6771

Smirnova, V. V.

Stratifiable triples of congruences. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 147-165. (A. Goetz) 29 #531

Singular solutions for S triples of congruences. (Russian) *Orenburg. Gos. Ped. Inst. Učen. Zap. Vyp.* 21 (1967), 129-134. (A. Urban) 42 #985

A certain stratification of pairs of two-parameter families of planes in P_5. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 11 (90), 76-86. (A. Zajtz) 42 #3690

(with Vinogradova, M. T.) Unilaterally stratifiable pairs of families of (2 - 2)-planes in E_5. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 1 (104), 9-20. (R. Draščić) 44 #3219

Smirnow, Ju. M. See Smirnov, Ju. M.

Smirnow, M. M. See Smirnov, M. M.

Smirnow, N. W. See Smirnov, Nikolaĭ Vasil′evič.

Smirnow, W. I. See Smirnov, Vladimir Ivanovič.

Smítal, Jaroslav

On the structure of the space $L^{(p)}$. (Czech. Russian and English summaries) *Acta Fac. Natur. Univ. Comenian.* 10, *fasc.* 7, 43-48 (1966). (J. Mařík) 34 #3292

(with Šalát, T.) Bemerkung zur Approximation der stetigen Funktionen durch Polynome. (Czech and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 16 (1967), 43-47. (P. L. Butzer) 38 #4864

(with Neubrunn, Tibor; Šalát, Tibor) On certain properties characterizing locally separable metric spaces. (Slovak and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 157-161. (R. F. Dickmann, Jr.) 36 #5891

(with Neubrunn, Tibor; Šalát, Tibor) On the structure of the space $M(0,1)$. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 377-386. (R. H. Cox) 38 #2592

On the functional equation $f(x + y) = f(x) + f(y)$. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 555-561. (Z. Moszner) 38 #2472

(with Kostyrko, P.; Šalát, T.) Remarks on the theory of real functions. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 20 (1969), 81-89 (1970). (C. Vinti) 42 #7852

Smítalová, K.

The zeros of solutions of inhomogeneous second order differential equations with lag. (Slovak) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 19 (1968), 187-189. (V. Šeda) 41 #7240

Smith, A. C.

A lower estimate of the cumulative truncation error in Milne's method. *Comput. J.* 8 (1965/66), 395-397. (G. N. Lance) 32 #6683

Smith, Anthony

Stellations of the triakis tetrahedron. *Math. Gaz.* 49 (1965), 135-143. (H. S. M. Coxeter) 32 #1586

Piecewise linear immersions. *Proc. Cambridge Philos. Soc.* 68 (1970), 45-55. (D. E. Sanderson) 42 #3796

Extending embeddings of R^{n-1} in R^{n}. *Proc. Cambridge Philos. Soc.* 71 (1972), 5-18. (R. B. Sher) 44 #7573

Smith, Armand V., Jr.

Comparison of two Bernoulli processes by multiple stage sampling using Bayesian decision theory. *Ann. Inst. Statist. Math.* 19 (1967), 505-518. (L. A. Aroian) 36 #7265

Smith, B. E.

(with Trollope, J. R.) Exact solutions of Einstein's cosmological equations. (Italian and Russian summaries) *Nuovo Cimento B* (10) 59 (1969), 125-136. (R. Behari) 39 #3794

Smith, B. R.

(with Temes, G. C.) An iterative approximation procedure for automatic filter synthesis. *IEEE Internat. Convention Record* 1964, *pt.* 1, 270-281. (Authors' summary) 37 #7218

(with Temes, G. C.) An iterative approximation procedure for automatic filter synthesis. *IEEE Trans. Circuit Theory* CT-12 (1965), 107-112. (E. K. Blum) 32 #7320

Smith, Brian T.

Error bounds for zeros of a polynomial based upon Gerschgorin's theorems. *J. Assoc. Comput. Mach.* 17 (1970), 661-674. (R. Vermes) 43 #5719

(with Johnston, R. Laurence) Calculation of best isolated Gerschgorin discs. *Numer. Math.* 16 (1970/71), 22-31. (John Todd) 43 #1402

Smith, C. B.

The life and works of Pál Vermes. (Hungarian) *Mat. Lapok* 20 (1969), 235-239. (Editors) 42 #2922

Smith, C. S.

(with Ashford, J. R.) General models for quantal response to the joint action of a mixture of drugs. *Biometrika* 51 (1964), 413-428. (J. Gani) 30 #5456

Smith, Carter Vincent

(with Pyke, Ronald) The Robbins-Isbell two-armed-bandit problem with finite memory. *Ann. Math. Statist.* 36 (1965), 1375-1386. (J. Kiefer) 31 #6331

Smith, Cedric A. B.

Personal probability and statistical analysis. (With discussion) *J. Roy. Statist. Soc. Ser. A* 128 (1965), 469-499. (L. J. Savage) 33 #3386

Graphs and composite games. *J. Combinatorial Theory* 1 (1966), 51-81. (F. Harary) 33 #2572

Correction: Consistency in statistical inference and decision. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 252. (Editors) 33 #3385

(with Harary, Frank; Palmer, Edgar) Which graphs have only self-converse orientations? *Canad. Math. Bull.* 10 (1967), 425-429. (R. C. Read) 35 #2791

Map colourings and linear mappings. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford,* 1969*), pp.* 259-283. *Academic Press, London,* 1971. (From the author's introduction) 43 #4722

Smith, Charles Ray

Bound states in a Debye-Hückel potential. *Phys. Rev.* (2) 134 (1964), A1235-A1237. (F. C. Auluck) 29 #945

A characterization of star-shaped sets. *Amer. Math. Monthly* 75 (1968), 386. (D. R. Henny) 37 #3308

(with Johnson, K. G.) Measurability preserving functions. *J. London Math. Soc.* (2) 2 (1970), 611-614. (U. Krengel) 42 #1969

Smith, D. H.

(with Biggs, N. L.) On trivalent graphs. *Bull. London Math. Soc.* 3 (1971), 155-158. (W. T. Tutte) 44 #3902

Smith, D. Hammond. See Hammond Smith, D.

Smith, Darwin W.

(with Choi, Jong H.) Lower bounds to energy eigenvalues for the stark effect in a rigid rotator. *J. Chem. Phys.* 43 (1965), S189-S193. (E. B. Wilson, Jr. and William H. Miller) 32 #5244

N-representability problem for fermion density matrices. I. The second-order density matrix with $N = 3$. *J. Chem. Phys.* 43 (1965), S258-S264. (A. J. Coleman) 33 #1090

Smith, David A.

On fixed points of automorphisms of classical Lie algebras. *Pacific J. Math.* 14 (1964), 1079-1089. (Rimhak Ree) 29 #4779

Chevalley bases for Lie modules. *Trans. Amer. Math. Soc.* 115 (1965), 283-299. (R. Steinberg) 33 #4191

On semigroups, semirings, and rings of quotients. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 123-130. (E.-A. Behrens) 34 #7692

A basis algorithm for finitely generated abelian groups. *Math. Algorithms* 1 (1966), 13-26. (J. McKay) 40 #4367

Incidence functions as generalized arithmetic functions. I. *Duke Math. J.* 34 (1967), 617-633. (N. G. de Bruijn) 36 #2547

On constructing a distributive lattice from a partially ordered set with DCC. *Comment. Math. Univ. Carolinae* 9 (1968), 515-525. (R. P. Dilworth) 39 #4057

Circularly generated abelian groups. *Fibonacci Quart.* 6 (1968), 36-45. (W. Moser) 37 #5279

Incidence funtions as generalized arithmetic functions. II. *Duke Math. J.* 36 (1969), 15-30. (N. G. de Bruijn) 39 #4084

Incidence functions as generalized arithmetic functions. III. *Duke Math. J.* 36 (1969), 353-367. (N. G. de Bruijn) 39 #4085

Multiplication operators on incidence algebras. *Indiana Univ. Math. J.* 20 (1970/71), 369-383. (V. S. Krishnan) 41 #8318

Smith, David Eugene

* Rara arithmetica. A catalogue of the arithmetics written before the year MDCI with a description of those in the library of George Arthur Plimpton of New York. Fourth edition, including A. De Morgan's *Arithmetical books. Chelsea Publishing Co., New York,* 1970. xviii + 725 *pp.* (From the preface to the fourth edition) 44 #1536

Smith, Donald R.

Estimates at infinity for stationary solutions of the Navier-Stokes equations in two dimensions. *Arch. Rational Mech. Anal.* 20 (1965), 341-372. (F. K. G. Odqvist) 32 #3386

(with Finn, Robert) On the linearized hydrodynamical equations in two dimensions. *Arch. Rational Mech. Anal.* 25 (1967), 1-25. (W. Velte) 35 #2545

(with Finn, Robert) On the stationary solutions of the Navier-Stokes equations in two dimensions. *Arch. Rational Mech. Anal.* 25 (1967), 26-39. (W. Velte) 35 #3238

(with Conway, E.) An ordering principle for discontinuous solutions of quasi-linear equations. *J. Differential Equations* 6 (1969), 110-124. (H. Kumano-go) 40 #1701

(with Conway, E. D.) An atypical example of stability and instability. *J. Math. Anal. Appl.* 26 (1969), 529-538. (K. R. Meyer) 39 #567

(with Palmer, James T.) On the behavior of the solution of the telegraphist's equation for large absorption. *Arch. Rational Mech. Anal.* 39 (1970), 146-157. (R. Showalter) 42 #4861

(with Lee, E. T. Y.) Note on some inequalities for Fourier coefficients. *J. Math. Anal. Appl.* 31 (1970), 659-667. (Yung-ming Chen) 42 #761

An asymptotic analysis of a certain hyperbolic Cauchy problem. *SIAM J. Math. Anal.* 2 (1971), 375-392. (E. C. Young) 44 #4345

Smith, Douglas B.

On the number of finitely generated *O*-groups. *Pacific J. Math.* 35 (1970), 499-502. (J. C. Ault) 43 #4742

Smith, E.

The spread of plasticity between two cracks. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 379-387. (From the author's summary) 29 #6711

Smith, F. A.

A structure theory for a class of lattice ordered semirings. *Fund. Math.* 59 (1966), 49-64. (S. J. Bernau) 33 #5684

(with Chawla, L. M.) On semigroups embeddable in their endomorphism semigroup. *J. Natur. Sci. and Math.* 7 (1967), 207-209. (J. Rotman) 38 #1193

A subdirect decomposition of additively idempotent semirings. *J. Natur. Sci. and Math.* 7 (1967), 253-257. (S. J. Bernau) 38 #4384

$\mathcal{L}$-semirings. *J. Natur. Sci. and Math.* 8 (1968), 95-98. (H. J. Weinert) 39 #266

Smith, Felix T.

Classical and quantal scattering. I. The classical action. *J. Chem. Phys.* 42 (1965), 2419-2426. (M. H. Mittleman) 33 #1020

Smith, Francis J.

The numerical evaluation of the classical angle of deflection and of the J.W.K.B. phase shift. *Physica* 30 (1964), 497-504. (Author's summary) 29 #920

An algorithm for summing orthogonal polynomial series and their derivatives with applications to curve-fitting and interpolation. *Math. Comp.* 19 (1965), 33-36. (C. W. Clenshaw) 30 #2664

Quadrature methods based on the Euler-Maclaurin formula and on the Clenshaw-Curtis method of integration. *Numer. Math.* 7 (1965), 406-411. (R. A. Valentin) 32 #8501

(with O'Hara, H.) Error estimation in the Clenshaw-Curtis quadrature formula. *Comput. J.* 11 (1968/69), 213-219. (Authors' summary) 37 #6031

(with O'Neill, M.; Sinclair, I. G.) Polynomial curve fitting when abscissas and ordinates are both subject to error. *Comput. J.* 12 (1969/70), 52-56. (From the authors' summary) 39 #1088

(with O'Hara, H.) The evaluation of definite integrals by interval subdivision. *Comput. J.* 12 (1969/70), 179-182. (Authors' summary) 39 #3700

Smith, Fred J.

Approximations of one-one measurable transformations. *Fund. Math.* 67 (1970), 171-178. (A. M. Bruckner) 41 #3678

Smith, Fredrik L.

A note on the covering groups of $\sum_n$, $n \geq 6$. *Math. Z.* 124 (1972), 64-66. (J. H. Walter) 44 #6821

Smith, G. E. J.

(with Mehra, K. L.) On nonparametric estimation and testing for interactions in factorial experiments. *J. Amer. Statist. Assoc.* 65 (1970), 1283-1296. 42 #3944

Smith, G. F.

On the generation of anisotropic tensors. *J. Mathematical Phys.* 5 (1964), 1612-1614. (R. T. Prosser) 30 #924

On isotropic integrity bases. *Arch. Rational Mech. Anal.* 18 (1965), 282-292. (A. J. M. Spencer) 30 #3424

Tensor and integrity bases for the gyroidal crystal class. *Quart. Appl. Math.* 25 (1967), 218-221. (A. J. M. Spencer) 37 #5249

On the generation of integrity bases. (Italian summary) *Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. Ia* (8) 9 (1968), 51-101. (A. J. M. Spencer) 40 #4286

On isotropic tensors and rotation tensors of dimension m and order n. *Tensor (N.S.)* 19 (1968), 79-88. (A. Fialkow) 36 #7055

(with Kiral, E.) Integrity bases for N symmetric second order tensors. The crystal classes. *Rend. Circ. Mat. Palermo* (2) 18 (1969), 5-22. (A. J. M. Spencer) 44 #6849

On rotational invariants of vectors and second-order tensors. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 1-4. (G. de La Penha) 41 #2992

A complete set of unitary invariants for N 3 × 3 complex matrices. *Tensor (N.S.)* 21 (1970), 273-283. (A. J. M. Spencer) 42 #7685

Smith, G. Vincent. See Vincent-Smith, G. F.

Smith, Gaston

On the (f, d_n)-method of summability. *Canad. J. Math.* 17 (1965), 506-526. (G. M. Petersen) 31 #540

Smith, George W., Jr.

(with Clement, Preston R.) A study of the correlation technique of generalized spectral analysis. *J. Franklin Inst.* 278 (1964), 133-146. (Authors' summary) 29 #3279

Smith, Gerald John

A duel with silent-noisy gun versus noisy gun. *Colloq. Math.* 17 (1967), 131-146. (S. Sherman) 35 #5230

Optimal strategy at roulette. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 91-100. (L. J. Savage) 35 #6230

Smith, Gordon D.

* Numerical solution of partial differential equations. *Oxford University Press, New York-London,* 1965. viii + 179 *pp.* (Table of contents) 43 #8249a

* Numerische Lösung von partiellen Differentialgleichungen. Aus dem Englischen übersetzt von Horst Hargina. *Vieweg, Braunschweig; C. F. Winter, Basel,* 1970. 246 *pp.* (Table of contents) 43 #8249b

Smith, H.

* (with Draper, N. R.) Applied regression analysis. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. ix + 407 *pp.* (Editors) 35 #2415

Smith, H. J. Stephen

(See Clifford, William Kingdon, 39 #26)

Smith, H. W.

(with Man, F. T.) Design of linear regulators optimal for time-multiplied performance indices. *IEEE Trans. Automatic Control* AC-14 (1969), 527-529. (Authors' summary) 42 #8982

(with Man, F. T.) Computation of sub-optimal linear controls for non-linear stochastic systems. *Internat. J. Control* (1) 10 (1969), 645-655. (Authors' summary) 40 #3967

Smith, Harvey A.

Tensor products of locally convex algebras. *Proc. Amer. Math. Soc.* 17 (1966), 124-132. (B. Yood) 32 #6250

(with Belinfante, J. G.; Kolman, B.) An introduction to Lie groups and Lie algebras, with applications. *SIAM Rev.* 8 (1966), 11-46. (Robert Hermann) 34 #275

Positive functionals and representations of tensor products of symmetric Banach algebras. *Canad. J. Math.* 20 (1968), 1192-1202. (B. Yood) 37 #6762

(with Belinfante, J. G.; Kolman, B.) An introduction to Lie groups and Lie algebras, with applications. II. The basic methods and results of representation theory. *SIAM Rev.* 10 (1968), 160-195. (R. Steinberg) 38 #4609

* (with Kupperman, Robert H.) Mathematical foundations of systems analysis. Vol. I. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1969. 214 *pp.* (A. A. Mullin) 40 #3889

(with Busby, Robert C.) Representations of twisted group algebras. *Trans. Amer. Math. Soc.* 149 (1970), 503-537. (H. Leptin) 41 #9013

Smith, Henrik

(with Jensen, H. Højgaard; Wilkins, John W.) Upper and lower bounds on transport coefficients arising from a linearized Boltzmann equation. *Phys. Rev.* (2) 185 (1969), 323-337. (M. Dutta) 40 #8413

Smith, J. See Smith, John H.

Smith, J.

(with Olesen, P.) The N/D method and the diffraction picture. II. *Nuovo Cimento A* (10) 40 (1965), 659-661. (D. I. Olive) 33 #1018

Smith, J. C. See Smith, James C., Jr.

Smith, J. G. B. Byatt. See Byatt-Smith, J. G. B.

Smith, J. R.

On Euclid's algorithm in some cyclic cubic fields. *J. London Math. Soc.* 44 (1969), 577-582. (S. Chowla) 39 #1429

Smith, J. R.

(with Nahi, N. E.) Final value control systems. *IEEE Internat. Convention Record* 1964, *pt.* 1, 241-245. (Authors' summary) 38 #592

Smith, J. Wolfgang

(with Clifton, Yeaton H.) The category of topological objects. *Proc. Nat. Acad. Sci. U.S.A.* 47 (1961), 190-195. (A. Oniščik (RŽMat 1963 #6 A300)) 30 #552

The Euler class of generalized vector bundles. *Acta Math.* 115 (1966), 51-81. (J. F. Adams) 32 #4704

The de Rham theorem for general spaces. *Tôhoku Math. J.* (2) 18 (1966), 115-137. (B. L. Reinhart) 34 #2027

An exact sequence for submersions. *Bull. Amer. Math. Soc.* 74 (1968), 233-236. (H. Suzuki) 36 #4564

Submersions of codimension 1. *J. Math. Mech.* 18 (1968/69), 437-443. (G. E. Bredon) 38 #1689

(with Chang, Bai-ching) The extension problem for functions invariant under a group. *Monatsh. Math.* 72 (1968), 118-132. (R. F. Williams) 38 #6567

Extending regular foliations. (French summary) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 2, 155-168 (1970). (J. Bochnak) 42 #1143

Commuting vectorfields on open manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 1013-1016. (F. W. Wilson, Jr.) 40 #2117

(with Short, Donald R.) A Vietoris-Begle theorem for submersions. *Indiana Univ. Math. J.* 20 (1970/71), 327-336. (K. Aoki) 42 #3801

On the homology structure of submersions. *Math. Ann.* 193 (1971), 217-224. (K. Aoki) 44 #5975

On the differential topology of space-time. *Proc. Cambridge Philos. Soc.* 69 (1971), 295-296. (P. Molino) 43 #1221

Smith, Jack C.

Transverse impact of a linear three-element spring and dashpot model filament: Theory. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 257-264. (Author's summary) 38 #4087

(with Fong, Jeffrey T.) On the coupling of longitudinal and transverse waves in a linear three-element viscoelastic string subjected to transverse impact. *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 201-214. (Authors' summary) 38 #4088

Smith, Jack H.

Solution of the inhomogeneous Helmholtz equation with Lebedev transforms. *J. Math. and Phys.* 47 (1968), 442-450. (R. E. Kleinman) 40 #564

Smith, James C., Jr.

Characterizations of metric-dependent dimension functions. *Proc. Amer. Math. Soc.* 19 (1968), 1264-1269. (K. Nagami) 38 #690

Lebesgue characterizations of uniformity-dimension functions. *Proc. Amer. Math. Soc.* 22 (1969), 164-169. (K. Nagami) 39 #4818

Refinements of Lebesgue covers. *Fund. Math.* 70 (1971), *no.* 1, 1-6. (M. Katětov) 44 #983

(with Krajewski, L. L.) Expandability and collectionwise normality. *Trans. Amer. Math. Soc.* 160 (1971), 437-451. (C. R. Borges) 44 #2190

Smith, James R.

Local domains with topologically T-nilpotent radical. *Pacific J. Math.* 30 (1969), 233-245. (M. Griffin) 40 #130

Smith, Joel G.

The information capacity of amplitude- and variance-constrained scalar Gaussian channels. *Information and Control* 18 (1971), 203-219. (S. Butman) 43 #4545

Smith, John H.

On class 2 extensions of algebraic number fields. *Amer. J. Math.* 87 (1965), 537-550. (L. R. McCulloh) 35 #2871

On products of profinite groups. *Illinois J. Math.* 13 (1969), 680-688. (K. W. Gruenberg) 41 #1883

A remark on fields with unramified compositum. *J. London Math. Soc.* (2) 1 (1969), 1-2. (K. Shiratani) 39 #5512

A remark on class numbers of number field extensions. *Proc. Amer. Math. Soc.* 20 (1969), 388-390. (K. Masuda) 39 #4116

Some properties of the spectrum of a graph. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 403-406. *Gordon and Breach, New York,* 1970. (R. C. Read) 42 #1702

On S-units almost generated by S-units of subfields. *Pacific J. Math.* 34 (1970), 803-805. (L. R. McCulloh) 44 #177

A result of Bass on cyclotomic extension fields. *Proc. Amer. Math. Soc.* 24 (1970), 394-395. (W.-D. Geyer) 41 #1703

Smith, John M.

Additional remarks on a theorem of M. Riesz. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 43-46. (M. Pearl) 35 #5456

Smith, John W. See Smith, J. Wolfgang.

Smith, Julius

Differentiability properties of solutions to higher order double integral variational problems. *Trans. Amer. Math. Soc.* 116 (1965), 108-125. (L. M. Graves) 34 #8258

The coupled equation approach to the numerical solution of the biharmonic equation by finite differences. I. *SIAM J. Numer. Anal.* 5 (1968), 323-339. (P. Laasonen) 38 #1847

The coupled equation approach to the numerical solution of the biharmonic equation by finite differences. II. *SIAM J. Numer. Anal.* 7 (1970), 104-111. (P. Laasonen) 42 #7091

Smith, K. J. C.

On the p-rank of the incidence matrix of points and hyperplanes in a finite projective geometry. *J. Combinatorial Theory* 7 (1969), 122-129. (J. W. P. Hirschfeld) 40 #4855

(See also Essays in probability and statistics, 41 #9310)

Smith, Keith P.

(with Wright, Fred M.) Existence conditions for the Lane integral. *Proc. Amer. Math. Soc.* 18 (1967), 1067-1073. (T. H. Hildebrandt) 36 #326

(with Wright, Fred M.) On the equality of a Lane integral and a Stieltjes mean sigma integral. *J. Indian Math. Soc. (N.S.)* 33 (1969), 7-12. (S. Foglio) 41 #420

Smith, Kennan T.

(with Mullikin, A. L.) Elliptic differential problems with high order boundary conditions. *Math. Scand.* 12 (1963), 178-188. (J. Nečas) 29 #2504

Some remarks on a paper of Calderón on existence and uniqueness theorems for systems of partial differential equations. *Comm. Pure Appl. Math.* 18 (1965), 415-441. (L. Gårding) 32 #2716

(with Hanna, Martin S.) Some remarks on the Dirichlet problem in piecewise smooth domains. *Comm. Pure Appl. Math.* 20 (1967), 575-593. (H. B. Jenkins) 37 #571

(with Adams, R.; Aronszajn, N.) Theory of Bessel potentials. II. *Ann. Inst. Fourier (Grenoble)* 17 (1967), *fasc.* 2, 1-135 (1968). (R. M. Hervé) 37 #4281

Formulas to represent functions by their derivatives. *Math. Ann.* 188 (1970), 53-77. (M. Jodeit, Jr.) 43 #7760

Smith, Kirby C.

Noncommutative Jordan algebras of capacity two. *Trans. Amer. Math. Soc.* 158 (1971), 151-159. (P. S. Rema) 43 #3317

Smith, Larry

Multiplicative fibre maps. *Bull. Amer. Math. Soc.* 73 (1967), 334-338. (R. E. Stong) 34 #6778

(with Baum, Paul) The real cohomology of differentiable fibre bundles. *Comment. Math. Helv.* 42 (1967), 171-179. (R. E. Mosher) 36 #4574

The cohomology of stable two stage Postnikov systems. *Illinois J. Math.* 11 (1967), 310-329. (A. H. Clark) 34 #8406

Homological algebra and the Eilenberg-Moore spectral sequence. *Trans. Amer. Math. Soc.* 129 (1967), 58-93. (A. K. Bousfield) 35 #7337

(with Moore, John C.) Hopf algebras and multiplicative fibrations. I. *Amer. J. Math.* 90 (1968), 752-780. (J. P. May) 38 #2772

(with Moore, John C.) Hopf algebras and multiplicative fibrations. II. *Amer. J. Math.* 90 (1968), 1113-1150. (J. P. May) 38 #6599

(with Stong, R. E.) The structure of BSC. *Invent. Math.* 5 (1968), 138-159. (P. S. Green) 37 #2240

(with Stong, R. E.) Exotic cobordism theories associated with classical groups. *J. Math. Mech.* 17 (1968), 1087-1102. (P. S. Landweber) 37 #2241

On the finite generation of $\Omega_*^U(X)$. *J. Math. Mech.* 18 (1968/69), 1017-1023. (A. Liulevicius) 39 #6300

$\pi_1(S^N) = 0$. *Kyungpook Math. J.* 8 (1968), 13-14. (A. H. Copeland, Jr.) 37 #6933

(with Clark, Allan) The rational homotopy of a wedge. *Pacific J. Math.* 24 (1968), 241-246. (R. E. Mosher) 36 #5945

Cohomology of $\Omega(G/U)$. *Proc. Amer. Math. Soc.* 19 (1968), 399-404. (A. H. Clark) 37 #2259

On the type of an associative H-space of rank two. *Tôhoku Math. J.* (2) 20 (1968), 511-515. (M. Arkowitz) 39 #4844

Primitive loop spaces. *Topology* 7 (1968), 121-124. (A. H. Clark) 37 #4816

On the construction of the Eilenberg-Moore spectral sequence. *Bull. Amer. Math. Soc.* 75 (1969), 873-878. (S. Gitler) 40 #3551

(with Conner, P. E.) On the complex bordism of finite complexes. *Inst. Hautes Études Sci. Publ. Math. No.* 37 (1969), 117-221. (R. E. Stong) 42 #2473

On the relation between spherical and primitive homology classes in topological groups. *Topology* 8 (1969), 69-80. (W. S. Piper) 38 #2771

Hopf fibration towers and the unstable Adams spectral sequence *Applications of Categorical Algebra (Proc. Sympos. Pure Math., Vol. XVII, New York,* 1968), *pp.* 129-160. *Amer. Math. Soc., Providence, R. I.,* 1970. (J. P. May) 41 #4544

(with Conner, P. E.) Homological dimension of complex bordism modules. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga.,* 1969), *pp.* 472-482. *Markham, Chicago, Ill.,* 1970. (R. E. Stong) 42 #6842

* Lectures on the Eilenberg-Moore spectral sequence. Lecture Notes in Mathematics, Vol. 134. *Springer-Verlag, Berlin-New York,* 1970. vii + 142 *pp.* (A. K. Bousfield) 43 #1191

On realizing complex bordism modules. Applications to the stable homotopy of spheres. *Amer. J. Math.* 92 (1970), 793-856. (R. E. Stong) 43 #1186a

An application of complex bordism to the stable homotopy groups of spheres. *Bull. Amer. Math. Soc.* 76 (1970), 601-604. (R. E. Mosher) 40 #8057

Annihilator ideals of complex bordism classes and Toda's α-sequence in the stable homotopy of spheres. *Indiana Univ. Math. J.* 20 (1970/71), 1119-1123. (T. tom Dieck) 44 #3321

(with Conner, P. E.) On generators for complex bordism modules *Invent. Math.* 10 (1970), 199-204. (C. B. Thomas) 42 #6843

Split extensions of Hopf algebras and semi-tensor products. *Math. Scand.* 26 (1970), 17-41. (K.-T. Chen) 41 #5468

On the Künneth theorem. I. The Eilenberg-Moore spectral sequence. *Math. Z.* 116 (1970), 94-140. (W. D. Barcus) 44 #3315

(with Smith, Mi-soo Bae) On the cohomology Chern classes of the K-theory Chern classes. *Proc. Amer. Math. Soc.* 26 (1970), 209-214. (S. Y. Husseini) 42 #2500

On the relation of connective K-theory to homology. *Proc. Cambridge Philos. Soc.* 68 (1970), 637-639. (M. F. Atiyah) 41 #7677

On realizing complex bordism modules. II. Applications to the stable homotopy groups of spheres. *Amer. J. Math.* 93 (1971), 226-263. (R. E. Stong) 43 #1186b

(with Araki, Huzihiro; Smith, Mi-Soo Bae) On the homotopical significance of the type of von Neumann algebra factors. *Comm. Math. Phys.* 22 (1971), 71-88. (W. Wils) 44 #5783

On characteristic numbers of almost complex manifolds with framed boundaries. *Topology* 10 (1971), 237-256. (R. E. Stong) 43 #1210

Smith, M. G.

The transport equation with plane symmetry and isotropic scattering. *Proc. Cambridge Philos. Soc.* 60 (1964), 909-921. (H. B. Keller) 32 #327

The isotropic scattering of radiation from a point source in a finite spherical atmosphere. *Proc. Cambridge Philos. Soc.* 61 (1965), 923-937. (J. Heading) 32 #3461

* Laplace transform theory. *D. Van Nostrand Co., Ltd., London-New York,* 1966. x + 123 *pp.* (G. Doetsch) 34 #1799

* Introduction to the theory of partial differential equations. *D. Van Nostrand Co., Ltd., Princeton, N. J.-Toronto, Ont.,* 1967. x + 214 *pp.* (C.-B. Ling) 36 #2932

(with Hunt, G. E.) The isotropic scattering of radiation in a finite homogeneous two-dimensional atmosphere. *Proc. Cambridge Philos. Soc.* 63 (1967), 209-220. (P. M. Anselone) 35 #1275

Smith, Mark W.

(with Tobach, Ethel; Rose, George; Richter, Donald) A table for making rank sum multiple paired comparisons. *Technometrics* 9 (1967), 561-567. (E. H. Lehman, Jr.) 36 #2281

Smith, Martha

On group algebras. *Bull. Amer. Math. Soc.* 76 (1970), 780-782. (S. A. Amitsur) 41 #3632

Group algebras. *J. Algebra* 18 (1971), 477-499. (K. W. Roggenkamp) 43 #3358

Smith, Mi-soo Bae

(with Smith, Larry) On the cohomology Chern classes of the K-theory Chern classes. *Proc. Amer. Math. Soc.* 26 (1970), 209-214. (S. Y. Husseini) 42 #2500

On automorphism groups of C^*-algebras. *Trans. Amer. Math. Soc.* 152 (1970), 623-648. (M. Takesaki) 42 #8305

(with Araki, Huzihiro; Smith, Larry) On the homotopical significance of the type of von Neumann algebra factors. *Comm. Math. Phys.* 22 (1971), 71-88. (W. Wils) 44 #5783

Smith, P. A. See Smith, Paul A.

Smith, Paul A.

Periodic transformations of 3-manifolds. *Illinois J. Math.* 9 (1965), 343-348. (S. S. Cairns) 30 #5311

Abelian actions on 2-manifolds. *Michigan Math. J.* 14 (1967), 257-275. (R. F. Williams) 37 #4810

Smith, Paul J.

(with Bell, C. B.) Some nonparametric tests for the multivariate goodness-of-fit, multisample, independence, and symmetry problems. *Multivariate Analysis, II (Proc. Second Internat. Sympos. Dayton, Ohio,* 1968), *pp.* 3-23. *Academic Press, New York,* 1969. (A. P. Basu) 40 #6700

Smith, Peter

An example of a plane shock of variable strength. *Proc. Edinburgh Math. Soc.* (2) 13 (1962/63), 297-302. (D. C. Pack) 31 #1858

Some intrinsic properties of spatial gas flows. *J. Math. Mech.* 12 (1963), 27-32. (H. Özoklav) 29 #3082

Smith, R. A.

(with Chowla, S.) On certain functional equations. *Norske Vid. Selsk. Forh. (Trondheim)* 40 (1967), 43-47 (1968). (A. Brumer) 38 #2101

The circle problem in an arithmetic progression. *Canad. Math. Bull.* 11 (1968), 175-184. (R. Ayoub) 38 #1064

On $\sum r(n)r(n + a)$. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 132-137. (Author's summary) 40 #2622

An error term of Ramanujan. *J. Number Theory* 2 (1970), 91-96. (T. M. Apostol) 40 #4224

The distribution of rational points on hypersurfaces defined over a finite field. *Mathematika* 17 (1970), 328-332. (A. D. Porter) 44 #1646

Smith, R. C.

Restricted maxima and minima. *Math. Gaz.* 49 (1965), 51-57. (H. A. Thurston) 31 #1335

Smith, R. F. Turner. See Turner-Smith, R. F.

Smith, R. K.

The laminar free-convection boundary layer on a vertical heated plate in the neighbourhood of a discontinuity in plate temperature. *J. Austral. Math. Soc.* 11 (1970), 149-168. (W. F. Ames) 42 #4084

(with Gill, A. E.) On similarity solutions of the differential equation $\psi_{zzzz} + \psi_x = 0$. *Proc. Cambridge Philos. Soc.* 67 (1970), 163-171. (K. Stewartson) 40 #5182

Smith, Roberta

(with Hansen, Eldon) Interval arithmetic in matrix computations. II. *SIAM J. Numer. Anal.* 4 (1967), 1-9. (James H. Wilkinson) 37 #4946

Smith, Russell A.

Boundedness theorems for certain non-linear systems. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 239-256. (C. Corduneanu) 29 #310

Bounds for quadratic Lyapunov functions. *J. Math. Anal. Appl.* 12 (1965), 425-435. (J. O. C. Ezeilo) 32 #7887

Bounds for the characteristic exponents of linear systems. *Proc. Cambridge Philos. Soc.* 61 (1965), 889-894. (N. P. Bhatia) 32 #249

Sufficient conditions for stability of a solution of difference equations. *Duke Math. J.* 33 (1966), 725-734. (N. P. Bhatia) 34 #519

Matrix calculations for Liapunov quadratic forms. *J. Differential Equations* 2 (1966), 208-217. (N. P. Bhatia) 32 #5995

The condition numbers of the matrix eigenvalue problem. *Numer. Math.* 10 (1967), 232-240. (Author's summary) 36 #1099

Infinite product expansions for matrix *n-th* roots. *J. Austral. Math. Soc.* 8 (1968), 242-249. (B. N. Parlett) 37 #2783

On minimising the condition of a Lyapunov matrix. *J. London Math. Soc.* 43 (1968), 675-678. (M. Pearl) 37 #4094

Matrix equation $XA + BX = C$. *SIAM J. Appl. Math.* 16 (1968), 198-201. (C. G. Cullen) 36 #7312

Stability of certain systems of second order differential equations. *Ann. Mat. Pura Appl.* (4) 82 (1969), 257-266. (H. O. Tejumola) 40 #7573

(with Mirsky, L.) The areal spread of matrices. *Linear Algebra and Appl.* 2 (1969), 127-129. (B. N. Moyls) 39 #4194

Period bound for autonomous Liénard oscillations. *Quart. Appl. Math.* 27 (1969/70), 516-522. (H. C. Howard) 41 #5714

Solution estimates for certain linear delay-differential systems. *J. London Math. Soc.* (2) 2 (1970), 581-588. (B. Stephan) 42 #2133

Möbius transformations in stability theory. *Proc. Cambridge Philos. Soc.* 68 (1970), 143-151. (A. Strauss) 41 #3918

Period bounds for generalized Rayleigh equation. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 6 (1971), 271-277. (J. A. Marlin) 44 #543

Area of convex hull of matrix eigenvalues. *Linear Algebra and Appl.* 4 (1971), 77-78. (H. Ratschek) 43 #4838

Smith, S. F.

On a flat punch indenting an elastic layer in plane strain. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 223-237. (W. D. Collins) 29 #3042

Smith, S. H.

Surface waves over a submerged circular cylinder. *Mathematika* 12 (1965), 235-245. (F. Ursell) 32 #8619

Smith, S. W.

Cone relationships of biorthogonal systems. *Pacific J. Math.* 35 (1970), 787-794. (B. R. Gelbaum) 43 #2465

Smith, Stanley F.

(with Havas, Peter) Effects of gravitational radiation reaction in the general relativistic two-body problem by a Lorentz-invariant approximation method. *Phys. Rev.* (2) 138 (1965), B495-B508. (W. B. Bonnor) 32 #5332

Smith, T. Jefferson

(with Hammer, P. C.) Conditions equivalent to central symmetry of convex curves. *Proc. Cambridge Philos. Soc.* 60 (1964), 779-785. (S. T. Rio) 30 #506

Smith, T. M. F.

A note on ratio estimates in multi-stage sampling. *J. Roy. Statist. Soc. Ser. A* 132 (1969), 426-430. (D. R. Brillinger) 40 #8210

Smith, Vedene H., Jr.

(with Kutzelnigg, Werner) Lower bounds for the eigenvalues of first-order density matrices. *J. Chem. Phys.* 42 (1965), 2791-2795. (J.-L. Calais) 32 #8887

Smith, Vernon L.

(with Rice, Donald B.) Nature, the experimental laboratory, and the credibility of hypotheses. *Behavioral Sci.* 9 (1964), 239-246. 31 #5283

Smith, W.

(with Watson, G. S.) Diffusion out of a triangle. *J. Appl. Probability* 4 (1967), 479-488. (K. Dietz) 37 #3853

Smith, W. E. See Smith, William E.

Smith, W. W. See Smith, William, W.

Smith, Walter L.

On the elementary renewal theorem for non-identically distributed variables. *Pacific J. Math.* 14 (1964), 673-699. (T. Kawata) 29 #2878

(See also Proceedings of the Symposium on Congestion Theory, Chapel Hill, N. C., 1964, 32 #7223)

* (with Cox, D. R.) Теория очередей. (Russian) [Theory of queueing] Translated from the English by V. V. Rykov and Ju. B. Roždestvenskiĭ. Edited by A. D. Solov′ev. *Izdat. "Mir", Moscow,* 1966. 218 *pp.* (Editors) 35 #6223

A theorem on functions of characteristic functions and its application to some renewal theoretic random walk problems. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66*), Vol. II: Contributions to Probability Theory, Part* 2*, pp.* 265-309. *Univ. California Press, Berkeley, Calif.,* 1967. (T. Kawata) 35 #7373

Some peculiar semi-Markov processes. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66*), Vol. II: Contributions to Probability Theory, Part* 2*, pp.* 255-263. *Univ. California Press, Berkeley, Calif.,* 1967. (L. Takács) 36 #984

* (with Cox, D. R.) Теория восстановления. (Russian) [Renewal theory] Translated from the English by V. V. Rykov and Ju. K. Beljaev. Edited and with an appendix by Ju. K. Beljaev. *Izdat. "Sovetskoe Radio", Moscow,* 1967. 299 *pp. (errata insert)* (Editors) 36 #7217

On the weak law of large numbers and the generalized elementary renewal theorem. *Pacific J. Math.* 22 (1967), 171-188. (C. Stone) 36 #986

On infinitely divisible laws and a renewal theorem for non-negative random variables. *Ann. Math. Statist.* 39 (1968), 139-154. (S. Orey) 38 #1717

Necessary conditions for almost sure extinction of a branching process with random environment. *Ann. Math. Statist.* 39 (1968), 2136-2140. (D. S. Adorno) 38 #5299

(with Wilkinson, William E.) On branching processes in random environments. *Ann. Math. Statist.* 40 (1969), 814-827. (F. L. Spitzer) 39 #7684

Remarks on renewal theory when the quality of renewals varies. (With discussion; French summary) Proc. Thirty-sixth Session Internat. Statist. Inst. (Sydney, 1967). *Bull. Inst. Internat. Statist.* 42 (1969), 1049-1061. (J. J. Hunter) 43 #4145

Some results using general moment functions. *J. Austral. Math. Soc.* 10 (1969), 429-441. (J. Kiefer) 41 #4667

Some remarks on a distribution occurring in neural studies. *Essays in Probability and Statistics, pp.* 707-732. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (R. M. Cormack) 42 #3829

(with Wilkinson, William E.) Branching processes in Markovian environments. *Duke Math. J.* 38 (1971), 749-763. (C. C. Heyde) 44 #6080

Smith, Wayne E.

An a posteriori probability method for solving an overdetermined system of equations. *Technometrics* 8 (1966), 675-686. (I. Guttman) 34 #5222

Smith, Wilbur L.

A generalized infinite product measure. *Duke Math. J.* 38 (1971), 765-769. (A. Mukherjea) 44 #1783

Smith, William. See Smith, William W.

Smith, William Bridges

Error detection in formal languages. *J. Comput. System Sci.* 4 (1970), 385-405. (J. Hartmanis) 43 #4591

Smith, William E.

Average radiation-pressure forces produced by sound fields. *Austral. J. Phys.* 17 (1964), 389-403. (N. Zitron) 32 #721

An electromagnetic force theorem for quasi-stationary currents. *Austral. J. Phys.* 18 (1965), 195-204. (R. D. Kodis) 31 #6516

Energy and dispersion in electromagnetic systems. *Austral. J. Phys.* 18 (1965), 287-295. (J. H. Harris) 32 #5031

Radiation-pressure forces in terms of impedance, admittance, and scattering matrices. *J. Acoust. Soc. Amer.* 37 (1965), 932-933. (Author's summary) 31 #1862

(with Lyness, J. N.) Applications of Hilbert transform theory to numerical quadrature. *Math. Comp.* 23 (1969), 231-252. (R. E. Barnhill) 40 #5132

An extension of Vratsanos' theorem to nonreciprocal networks. *IEEE Trans. Circuit Theory* CT-18 (1971), 276-277. (Author's summary) 43 #8460

Smith, William W.

(with Butts, H. S.) On the integral closure of a domain. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 117-122. (R. W. Gilmer, Jr.) 34 #5859; erratum, 34 p. 1786

(with Butts, Hubert S.) Prüfer rings. *Math. Z.* 95 (1967), 196-211. (H. G. Jacob, Jr.) 35 #173

Projective ideals of finite type. *Canad. J. Math.* 21 (1969), 1057-1061. (W. V. Vasconcelos) 40 #133

A covering condition for prime ideals. *Proc. Amer. Math. Soc.* 30 (1971), 451-452. (J. L. Mott) 44 #197

Smith, Wm. B.

(with Hocking, R. R.) Estimation of parameters in the multivariate normal distribution with missing observations. *J. Amer. Statist. Assoc.* 63 (1968), 159-173. (R. M. Elashoff) 37 #2371

Smith-Agreda, M. C.

(with Garrido, L. M.) Irreversible processes in classical mechanics. (Spanish) *Collect. Math.* 15 (1963), 111-151. (L. A. MacColl) 30 #902

A variational action principle. *Physica* 30 (1964), 1883-1895. (C. J. Eliezer) 33 #6880

Smithgall, David H.

(with Thorp, James S.) A second-variation algorithm for a class of minimum fuel problems. *IEEE Trans. Automatic Control* AC-15 (1970), 354-358. (Authors' summary) 43 #1711

Smith Haller, H. See Haller, H. Smith.

Smithson, Raymond E.

Some general properties of multi-valued functions. *Pacific J. Math.* 15 (1965), 681-703. (P. T. Church) 32 #437

Changes of topology and fixed points for multi-valued functions. *Proc. Amer. Math. Soc.* 16 (1965), 448-454. (G. S. Young) 30 #5293

A fixed point theorem for connected multi-valued functions. *Amer. Math. Monthly* 73 (1966), 351-355. (Haskell Cohen) 33 #1848

On criteria for continuity. *Nieuw Arch. Wisk.* (3) 14 (1966), 89-92. (W. R. Utz) 33 #6599

A note on the continuity of multifunctions. *J. Natur. Sci. and Math.* 7 (1967), 197-202. (W. J. Pervin) 38 #5176

A characterization of lower semi-continuity. *Amer. Math. Monthly* 75 (1968), 505. (G. T. Whyburn) 37 #6917

A note on acyclic continua. *Colloq. Math.* 19 (1968), 67-71. (L. E. Ward, Jr.) 37 #2190

(with Muenzenberger, T. B.) Fixed points and proximate fixed points. *Fund. Math.* 63 (1968), 321-326. (B. Margolis) 39 #943

Topologies generated by relations. *Bull. Austral. Math. Soc.* 1 (1969), 297-306. (L. E. Ward, Jr.) 41 #2605

A note on δ-continuity and proximate fixed points for multi-valued functions. *Proc. Amer. Math. Soc.* 23 (1969), 256-260. (E. Fadell) 40 #2025

A counterexample to a lemma on the existence of simple refinements. *Amer. Math. Monthly* 77 (1970), 293-294. (J. W. Rogers, Jr.) 41 #4496

Fixed points for contractive multifunctions. *Proc. Amer. Math. Soc.* 27 (1971), 192-194. (S. T. Lin) 42 #2466

Fixed points of order preserving multifunctions. *Proc. Amer. Math. Soc.* 28 (1971), 304-310. (L. E. Ward, Jr.) 43 #114

(with George, J. H.; Sehgal, V. M.) Application of Liapunov's direct method to fixed point theorems. *Proc. Amer. Math. Soc.* 28 (1971), 613-620. (D. E. Sanderson) 43 #6904

Fixed point theorems for certain classes of multifunctions. *Proc. Amer. Math. Soc.* 31 (1972), 595-600. (C. J. Himmelberg) 44 #5946

Smith-White, W. B.

(with Buchwald, V. T.) A generalization of $z!$. *J. Austral. Math. Soc.* 4 (1964), 327-341. (T. Erber) 29 #6067

Smits, Theodorus Hermanus Maria

Skew polynomial rings. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 209-224. (P. M. Cohn) 37 #4107

* Skew polynomial rings and nilpotent derivations. (Loose Dutch summary) Doctoral dissertation, Technical University of Delft. *Technische Hogeschool te Delft, Delft,* 1967. 61 + 6 *loose pp.* (C. H. Franke) 35 #5465; erratum, 36, p. 1567

Nilpotent *S*-derivations. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 72-86. (H. J. Weinert) 38 #137

The free product of a quadratic number field and a semifield. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 145-159. (P. M. Cohn) 39 #5631

Smogljanov, O. G. See Smoljanov, O. G.

Smogorshewsky, Alexandre. See Smogorževs'kiĭ, O. S.

Smogorževs'kiĭ, O. S.

(See Dobrovol's'kiĭ, V. O.; Zmorovič, V. A., 33 #5433)

(with Virčenko, N. O.; Dobrovol's'kiĭ, V. O.; Mitropol'skiĭ, Ju. O.) Mihail Filippovič Kravčuk. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 85-91. (Editors) 36 #3623

(See also Kovancov, M. Ī., 43 #6048)

Smoke, William

Invariant differential operators. *Trans. Amer. Math. Soc.* 127 (1967), 460-494. (J. Eells) 35 #1720

Commutativity of the invariant differential operators on a symmetric space. *Proc. Amer. Math. Soc.* 19 (1968), 222-224. (J. A. Wolf) 36 #1580

Dimensional and multiplicity for graded algebras. *Bull. Amer. Math. Soc.* 76 (1970), 743-746. (R. M. Fossum) 41 #3465

Smokler, Howard E.

(See Studies in subjective probability, 31 #4055)

Smolenskiĭ, E. A.

A method for the linear recording of graphs. *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 371-372 *(Russian); translated as U.S.S.R. Comput. Math. and Math. Phys.* 2 (1963), 396-397. (R. C. Read) 32 #7453

Smolickiĭ, H. L.

* (with Mihlin, S. G.) Приближенные методы решения дифференциальных и интегральных уравнений. (Russian) [Approximate methods of solution of differential and integral equations] *Izdat. "Nauka", Moscow,* 1965. 383 *pp.* (Walter Gautschi) 33 #855

* (with Mihlin, S. G.) Approximate methods for solution of differential and integral equations. Translated from the Russian by Scripta Technica, Inc. Translation editor, Robert E. Kalaba. Modern Analytic and Computational Methods in Science and Mathematics, Vol. 5. *American Elsevier Publishing Co., Inc., New York,* 1967. xi + 308 *pp.* (Editors) 36 #1108

* (with Mihlin, S. G.) Näherungsmethoden zur Lösung von Differential- und Integralgleichungen. Übersetzt aus dem Russischen von K. H. Rupp. Mathematik für technische Hochschulen, Band 10. *B. G. Teubner Verlagsgesellschaft. Leipzig,* 1969. xi + 284 *pp.* (Editors) 40 #6797

Smolin, Ju. N.

A generalization of the notion of orthogonality. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 241-242. (J. L. B. Cooper) 37 #1877

(with Artem'ev, M. I.; Veržbickiĭ, V. M.; Caljuk, Z. B.) The asymptotic behavior of the solutions of differential equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1256-1266. (C. E. Langenhop) 40 #4562

The asymptotic behavior of the solution of a quasilinear system of Volterra integral equations with constant retardation of the argument. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1133-1134, 1144. (C. Avramescu) 44 #4466

The order of growth of the resolvent kernels of a system of Volterra integral equations with periodic kernels and lags. (Russian) *Differencial'nye Uravnenija* 7 (1971), 2246-2252. (A. Corduneanu) 44 #7233

Smolitzky, Kh. L. See Smolickiĭ, H. L.

Smolizki, Ch. L. See Smolickiĭ, H. L.

Smolizkiy, Kh. L. See Smolichiĭ, H. L.

Smoljakov, È. R.

Differencial games in mixed strategies. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 39-42. (A. Friedman) 41 #3129

Smoljanov, O. G.

On linear topological spaces not satisfying the first axiom of countability. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 6 (120), 199-200. (R. Arens) 30 #2319

On the topology of inductive limits of infinite sequences of linear topological spaces satisfying the first axiom of countability. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 1, 26-29. (Á. Császár) 32 #8105

On locally-convex topologies in the space *K* and in some other spaces of finite functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 3, 5-11. (N. Dinculeanu) 32 #4520

Measurable polylininear and power functionals in certain linear spaces with measure. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 526-529. (B. Walsh) 34 #2817

Measurability and nonmeasurability of subsets of certain function spaces with measure. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 4, 72-85. (E. M. Klimko) 34 #6017 (with Averbuh, V. I.) Differentiation in linear topological spaces. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 735-738. (W. Słowikowski) 35 #5934

(with Averbuh, V. I.) Differentiation theory in linear topological spaces. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 6 (138), 201-260. (W. Słowikowski) 36 #6933

(with Averbuh, V. I.) Different definitions of derivative in linear topological spaces. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 4 (142), 67-116. (M. Vaĭnberg (RŽMat 1969 #4 B480)) 39 #7424

(with Averbuh, V. I.) An addendum to the article: "Different definitions of derivative in linear topological spaces". (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 5 (143), 223-224. (Editors) 39 #7425

Almost closed linear subspaces of strict inductive limits of sequences of Fréchet spaces. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 513-520. (J. E. Cigler) 41 #789

Measurable linear varieties in products of linear spaces with measure. (Russian) *Mat. Zametki* 5 (1969), 623-634. (W. Słowikowski) 40 #7769

The space *D* is not hereditarily complete. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 682-696. (J. L. B. Cooper) 44 #2019

Smoljanskiĭ, S. A.

(with Fleischer, Norbert M.) A method for solving Fredholm integral equations of the second kind. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 127-128. (R. T. Seeley) 34 #573

Smoljar, È. I.

Oscillations with multiple periods in nonlinear systems. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 214-221. (M. Bertolino) 41 #5715

Smoller, Joel Alan

Singular perturbations of Cauchy's problem. *Comm. Pure Appl. Math.* 18 (1965), 665-677. (R. C. Gilbert) 32 #2709

Singular perturbations and a theorem of Kisyński. *J. Math. Anal. Appl.* 12 (1965), 105-114. (D. E. Edmunds) 31 #6040

Translation-invariant functionals on functions defined in Euclidean spaces. *Trans. Amer. Math. Soc.* 114 (1965), 446-467. (L. Bungart) 31 #5081

(with Conway, Edward) Uniqueness and stability theorem for the generalized solution of the initial-value problem for a class of quasi-linear equations in several space variables. *Arch. Rational Mech. Anal.* 23 (1966), 399-408. (O. A. Oleĭnik) 35 #3222

(with Conway, Edward) Global solutions of the Cauchy problem for quasi-linear first-order equations in several space variables. *Comm. Pure Appl. Math.* 19 (1966), 95-105. (K. Krickeberg) 33 #388

(with Johnson, J. L.) Global solutions of certain hyperbolic systems of quasi-linear equations. *Bull. Amer. Math. Soc.* 73 (1967), 666-667. (E. D. Conway) 35 #6973

(with Johnson, J. L.) Global solutions for certain systems of quasi-linear hyperbolic equations. *J. Math. Mech.* 17 (1967), 561-576. (E. D. Conway) 36 #2969

(with Johnson, J. L.) Global solutions of hyperbolic systems of conservation laws in two dependent variables. *Bull. Amer. Math. Soc.* 74 (1968), 915-918. (E. D. Conway) 39 #4521

(with Johnson, J. L.) Global solutions for an extended class of hyperbolic systems of conservation laws. *Arch. Rational Mech. Anal.* 32 (1969), 169-189. (E. D. Conway) 38 #4822 (E)

A uniqueness theorem for Riemann problems. *Arch. Rational Mech. Anal.* 33 (1969), 110-115. (P. Cooperman) 38 #6238

On the solution of the Riemann problem with general step data for an extended class of hyperbolic systems. *Michigan Math. J.* 16 (1969), 201-210. (E. C. Young) 40 #552

(with Moler, Cleve) Elementary interactions in quasi-linear hyperbolic systems. *Arch. Rational Mech. Anal.* 37 (1970), 309-322. (W. Sibagaki) 44 #636

(with Johnson, J. L.) Erratum: "Global solutions for an extended class of hyperbolic systems of conservation laws". *Arch. Rational Mech. Anal.* 37 (1970), 399-400. (Editors) 41 #645

Contact discontinuities in quasi-linear hyperbolic systems. *Comm. Pure Appl. Math.* 23 (1970), 791-801. (E. D. Conway) 42 #2175

(with Conley, Charles C.) Viscosity matrices for two-dimensional nonlinear hyperbolic systems. *Comm. Pure Appl. Math.* 23 (1970), 867-884. (E. D. Conway) 43 #714

(with Conley, Charles C.) Shock waves as limits of progressive wave solutions of higher order equations. *Comm. Pure Appl. Math.* 24 (1971), 459-472. (D. L. Russell) 44 #645

Smol'nikov, B. A.

On the motion of a rigid body under the action of rotation of an internal flywheel. *Prikl. Mat. Meh.* 28 (1964), 171-174 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 204-208. (T. R. Kane) 30 #1646

Smolovik, I. I.

(with Remorov, N. B.) Certain properties of the function $X_{1\tau}(kr) = I_{1\tau}(kr_1)K_{1\tau}(kr) - K_{1\tau}(kr_1)I_{1\tau}(kr)$. (Russian) *Kemerov. Gos. Ped. Inst. Učen. Zap. Vyp.* 11 (1968), 58-61. (E. Ivanov (RŽMat 1969 #3 B37)) 42 #3324

Smoluk, A.

(with Zamorski, J.) On conditions for extremal generalized spiral functions, involving their coefficients. (Polish. Russian and English summaries) *Prace Mat.* 7 (1962), 119-125. (Z. Lewandowski) 32 #4263

Smorgonskiĭ, V. Ja.

(with Kovšov, A. I.) Carrying capacity of an elliptic waveguide for an H_{11}-wave. (Russian) *Radiotehn. i Èlektron.* 10 (1965), 945-947. 31 #4351

Smorkačev, E. T.

Rings of generalized polynomials. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 3 *(Russian), pp.* 313-323. *Izdat. "Zinatne", Riga,* 1968. (H. Kurke) 39 #4119

Smorkachev, E. T. See Smorkačev, E. T.

Smorodinskiĭ, Ja. A.

The unitary symmetry of elementary particles. *Uspehi Fiz. Nauk* 84 (1964), 3-36 *(Russian); translated as Soviet Physics Uspekhi* 7 (1965), 637-655. (A. C. T. Wu) 31 #4467

(with Vilenkin, N. Ja.) Invariant expansions of relativistic amplitudes. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1793-1808 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1209-1218. (W. Güttinger) 31 #6572

Kinematik und Lobatschewski-Geometrie. *Fortschr. Physik* 13 (1965), 157-173. (R. H. Boyer) 31 #4566

(with Kadyševskiĭ, V. G.; Muradjan, R. M.) SU(6)-Symmetrie in den starken und elektromagnetischen Wechselwirkungen der Elementarteilchen. *Fortschr. Physik* 13 (1965), 599-646. (G. Barton) 33 #3672

(with Winternitz, P.; Uhlíř, M.) On relativistic angular momentum theory. *Jadernaja Fiz.* 1 (1965), 163-172 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 113-119. (Authors' summary) 34 #5474

(with Vilenkin, N. Ja.; Kuznecov, G. I.) Eigenfunctions of the Laplace operator providing representations of the U(2), SU(2), SO(3), U(3) and SU(3) groups and the symbolic method. *Jadernaja Fiz.* 2 (1965), 906-917 *(Russian); translated as Soviet J. Nuclear Phys.* 2 (1966), 645-652. (M. A. B. Bég) 34 #7722

(with Friš, J.; Mandrosov, V.; Uhlíř, M.; Winternitz, P.) On higher symmetries in quantum mechanics. *Phys. Lett.* 16 (1965), 354-356. (J. M. Jauch) 32 #5212

(with Winternitz, P.; Uhlir, M.; Friš, I.) Symmetry groups in classical and quantum mechanics. *Jadernaja Fiz.* 4 (1966), 625-635 *(Russian); translated as Soviet J. Nuclear Phys.* 4 (1967), 444-450. (R. Delbourgo) 35 #2576

(with Kuznecov, G. I.) Integral representations for relativistic amplitudes and asymptotic theorems. *Jadernaja Fiz.* 6 (1967), 1308-1312 *(Russian); translated as Soviet J. Nuclear Phys.* 6 (1968), 949-951. (W. Güttinger) 38 #4105

(with Nyíri, J.) Coordinates and observables in the nuclear three-body problem. *Jadernaja Fiz.* 9 (1969), 882-893 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 515-520. (K. Kawarabayashi) 40 #5202

(with Kuznecov, G. I.; Liberman, M. A.; Makarov, A. A.) Helicity and unitary representations of the Lorentz group. *Jadernaja Fiz.* 10 (1969), 644-656 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 370-376. (M. Havlíček) 43 #7140

(with Pustovalov, V. V.) Three-body problem. Complete system of orthogonal angle functions. *Jadernaja Fiz.* 10 (1969), 1287-1295 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 729-733. (W. Miller, Jr.) 44 #1333

(with Lukac, I.) The wave functions of an asymmetric top. *Ž. Èksper. Teoret. Fiz.* 57 (1969), 1342-1348 *(Russian. English summary); translated as Soviet Physics JETP* 30 (1970), 728-730. (T. Sasakawa) 42 #8816

Smorodinskij, Ja. A. See Smorodinskiĭ, Ja. A.

Smorodinsky, Meir

On infinite decodable codes. *Information and Control* 11 (1967), 607-612. (M. A. Harrison) 37 #5055

The capacity of a general noiseless channel and its connection with Hausdorff dimension. *Proc. Amer. Math. Soc.* 19 (1968), 1247-1254. (E. A. Robinson) 37 #7205

Singular measures and Hausdorff measures. *Israel J. Math.* 7 (1969), 203-206. (U. Krengel) 40 #3589

(with Feldman, Jacob) Bernoulli flows with infinite entropy. *Ann. Math. Statist.* 42 (1971), 381-382. (U. Krengel) 43 #6397

Smorodinsky, Ya. See Smorodinskiĭ, Ja. A.

Smrž, Pavel

Spinor space and strong interactions. *Canad. J. Phys.* 46 (1968), 2073-2077. (C.-H. Woo) 41 #3019

Philosophy of a space generalization and the problem of spinors in general relativity. (Italian and Russian summaries) *Nuovo Cimento B* (10) 65 (1970), 147-157. (R. Penrose) 42 #2776

Šmukler, A. I.

On a singular integral. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 5 (119), 163-170. (A. Dvoretzky) 31 #559

On uniformly convergent Fourier series. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 669-685. (H. J. Landau) 31 #5032

On certain special trigonometric series. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 339-364. (S. Verblundky) 34 #8065

Šmulev, I. I.

Periodic solutions of the first boundary-value problem for parabolic equations. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 398-410. (A. Friedman) 30 #3312

Almost periodic solutions of a parabolic equation. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 685-698. (W. H. Fleming) 34 #475

Periodic solutions of a model equation of motion of a viscous fluid. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 694-698. (O. Vejvoda) 35 #4555

Almost periodic and periodic solutions of the problem with oblique derivative for parabolic equations. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2225-2236. (O. Horáček) 42 #648

Boundary value problems for turbulence model equations. *Prikl. Mat. Meh.* 33 (1969), 879-886 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 854-866 (1970). (W. F. Ames) 41 #9491

Bounded, periodic and almost periodic solutions of elliptic equations. (Russian) *Differencial'nye Uravnenija* 7 (1971), 519-529. (P. C. Fife) 44 #4342

Šmulian, Vitold L. See Šmul'jan, Vitol'd L'vovič.

Šmul'jan, Ju. L.

Reduction of the Hellinger operator integral to a Lebesgue integral. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 2 (33), 164-175. (J. Král) 33 #248

Non-expanding operators in a finite-dimensional space with indefinite metric. (Russian) *Uspehi Mat. Nauk* 18 (1963), *no.* 6 (114), 225-230. (R. C. Gilbert) 30 #454

Some properties of 2-increasing functions. (Russian) *Problems of Math. Phys. and Theory of Functions, II (Russian), pp.* 159-170. *Naukova Dumka, Kiev,* 1964. (I. N. Baker) 32 #4226

The optimal factoring of non-negative matrix functions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 382-386. (K. Krickeberg) 29 #6549

(with Brodskiĭ, M. S.) Invariant subspaces of a linear operator and divisors of its characteristic function. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 1 (115), 143-149. (J. H. Williamson) 29 #2645

Simplicity of isometric operators and their extensions. *Amer. Math. Soc. Transl.* (2) 47 (1965), 47-54. (A. Brown) 32 #6231

Monotone operator functions on a set consisting of an interval and a point. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 130-136. (N. Dinculeanu) 32 #6239

Indecomposable *n*-increasing functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 181-183. (M. M. Day) 33 #6364

(with Kreĭn, M. G.) A class of operators in a space with an indefinite metric. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 34-37. (L. de Branges) 34 #615

(with Kreĭn, M. G.) On the plus-operators in a space with an indefinite metric. (Russian) *Mat. Issled.* 1 (1966), *vyp.* 1, 131-161. (J. L. B. Cooper) 34 #4923

(with Kreĭn, M. G.) $\mathfrak{Z}$-polar representations of plus-operators. (Russian) *Mat. Issled.* 1 (1966), *vyp.* 2, 172-210. (J. L. B. Cooper) 34 #8183

Composition of operators in finite-dimensional spaces with an indefinite metric. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 699-707. (Josef Kolomý) 34 #620

(with Kreĭn, M. G.) Fractional linear transformations with operator coefficients. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 3, 64-96. (F. Smithies) 39 #813

Division in the class of *J*-expansive operators. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 516-525. (J. M. G. Fell) 37 #784

Two-sided division in the ring of operators. (Russian) *Mat. Zametki* 1 (1967), 605-610. (J. M. G. Fell) 36 #729

J-majorization, and modular operators in *J*-spaces. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 198-214. (V. Istrăţescu) 41 #9037

Linear fractional transformations with operator coefficients, and operator spheres. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 335-353. (J. Bognár) 39 #2022

Operator balls. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 6 (1968), 68-81. (J. M. G. Fell) 42 #8256

J-dilating operators in *J*-spaces. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 352-362. (J. Bognár) 38 #1545

Linear fractional transformations of the upper half plane of operators. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 1 (80), 97-105. (B. Crstici) 43 #3837

Linear fractional transformations in a space with involution. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 2 (81), 117-126. (B. Crstici) 43 #3838

A certain class of holomorphic operator-valued functions. (Russian) *Mat. Zametki* 5 (1969), 351-359. (J. L. B. Cooper) 39 #4702

(See also Sz.-Nagy, Béla; Foiaş, Ciprian, 43 #948)

Representations of a Hermitian operator with a generalized modulus. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 432-435, 477. (F. H. Szafraniec) 43 #6768

Regular and singular Hermitian operators. (Russian) *Mat. Zametki* 8 (1970), 197-203. (B. Sz.-Nagy) 43 #964

Extended resolvents and extended spectral functions of a Hermitian operator. (Russian) *Mat. Sb. (N.S.)* 84(126) (1971), 440-455. (J. Bognár) 44 #836

Šmul'jan, Vitol'd L'vovič

(See Kreĭn, M. G., 32 #2306 and Raĭkov, D. A., 32 #2307)

Smullyan, Raymond M.

On Post's canonical systems. *J. Symbolic Logic* 27 (1962), 5 57. (G. Kreisel) 33 #3924

Effectively simple sets. *Proc. Amer. Math. Soc.* 15 (1964), 893-895. (G. E. Sacks) 31 #4720

Analytic natural deduction. *J. Symbolic Logic* 30 (1965), 12 139. (G. Kreisel) 34 #34

On transfinite recursion. *Trans. New York Acad. Sci.* (2) 28 (1965/66), 175-185. (L. E. Sanchis) 43 #6072

Trees and nest structures. *J. Symbolic Logic* 31 (1966), 303-321. (A. Kino) 34 #5649

Finite nest structures and propositional logic. *J. Symbolic Logic* 31 (1966), 322-324. (A. Kino) 34 #5650

More on transfinite recursion. *Trans. New York Acad. Sci.* (2 29 (1966/67), 555-559. (L. E. Sanchis) 43 #6073

* First-order logic. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 43. *Springer-Verlag, New York, Inc., New York,* 1968. xii + 158 *pp.* (W. Taylor) 39 #5311

Uniform Gentzen systems. *J. Symbolic Logic* 33 (1968), 549-559. (R. Parikh) 39 #3968

Analytic cut. *J. Symbolic Logic* 33 (1968), 560-564. (R. Parikh) 39 #3969

Abstract quantification theory. *Intuitionism and Proof Theor (Proc. Conf., Buffalo, N. Y.,* 1968*), pp.* 79-91. *North-Holland, Amsterdam,* 1970. (G. Fuhrken) 42 #2928

Šmul'yan, Yu. L. See Šmul'jan, Ju. L.

Šmyglevskiĭ, Ju. D.

* Некоторые вариационные задачи газовой динамики. (Russian) [Some variational problems in gas dynamics] *Vyčisl. Centr. Akad. Nauk SSSR, Moscow,* 1963. 142 *pp.* (C. K. Chu) 29 #5489

(with Kraĭko, A. N.; Naumova, I. N.) On the construction of bodies of optimum shape in a supersonic stream. *Prikl. Mat. Meh.* 28 (1964), 178-182 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 214-219. (H. K. Cheng) 30 #2797

Smyllie, H. C.

(with Armitage, P.; Blendis, L. M.) The measurement of observer disagreement in the recording of signs. *J. Roy. Statist. Soc. Ser. A* 129 (1966), 98-109. (From the authors' summary) 33 #830

Šmyrev, V. I.

A parameter method for the solution of a general linear programming problem. (Russian) *Optimal. Planirovanie Vyp.* 10 (1968), 47-59. (R. Smolkin (RŽMat 1969 #5 V410)) 44 #7969

A method of solution of the von Neumann model. (Russian) *Optimal. Planirovanie Vyp.* 11 (1968), 76-87. (Author's summary) 44 #6308

An algorithm for the solution of a certain class of linear programming problems of large volume. (Russian) *Optimal. Planirovanie Vyp.* 11 (1968), 88-116. (Author's summary) 44 #5100

Smyrl, Shannon

(with Amir-Moéz, A. R.) Involutory linear transformations. *Rend. Circ. Mat. Palermo* (2) 17 (1968), 115-118. (M. F. Smiley) 40 #5633

Smyrnélis, Emmanuel P.

Allure des fonctions harmoniques au voisinage d'un point-frontière irrégulier. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968) A157-A159. (R. M. Hervé) 38 #3460

Sur les moyennes des fonctions paraboliques. *Bull. Sci. Math.* (2) 93 (1969), 163-174. (A. M. White) 43 #3634

Smyšljaev, V. K.

On the convergence of contracted continued fractions. (Russian) *Mari. Gos. Ped. Inst. Učen. Zap.* 26 (1965), 443-444. (T. T. Tonkov) 33 #6192

Smyšljaeva, L. G.

A certain property of the coefficients of the transfer function of a sampled-data system. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.*3 (106), 81-85. (R. Tomović) 44 #5164

Smyth, Brian

Differential geometry of complex hypersurfaces. *Ann. of Math.* (2) 85 (1967), 246-266. (K. T. Hahn) 34 #6697

(with Nomizu, Katsumi) Differential geometry of complex hypersurfaces. II. *J. Math. Soc. Japan* 20 (1968), 498-521. (K. T. Hahn) 37 #5827

Homogeneous complex hypersurfaces. *J. Math. Soc. Japan* 20 (1968), 643-647. (K. T. Hahn) 38 #651

(with Nomizu, Katsumi) On the Gauss mapping for hypersurfaces of constant mean curvature in the sphere. *Comment. Math. Helv.* 44 (1969), 484-490. (S. Kobayaski) 41 #2588

(with Nomizu, Katsumi) A formula of Simons' type and hypersurfaces with constant mean curvature. *J. Differential Geometry* 3 (1969), 367-377. (H. Osborn) 42 #1018

Smyth, C. J.

On the product of the conjugates outside the unit circle of an algebraic integer. *Bull. London Math. Soc.* 3 (1971), 169-175. (H. W. Brinkmann) 44 #6641

Smythe, N.

(with Fox, R. H.) An ideal class invariant of knots. *Proc. Amer. Math. Soc.* 15 (1964), 707-709. (L. Neuwirth) 29 #2798

(with Holmes, R.) Algebraic invariants of isotopy of links. *Amer. J. Math.* 88 (1966), 646-654. (R. H. Fox) 34 #807

Isotopy invariants of links and the Alexander matrix. *Amer. J. Math.* 89 (1967), 693-704. (R. H. Fox) 36 #2139

Trivial knots with arbitrary projection. *J. Austral. Math. Soc.* 7 (1967), 481-489. (L. Neuwirth) 36 #3337

Topological invariants of isotopy of links. I. *Amer. J. Math.* 92 (1970), 86-98. (H. E. Debrunner) 41 #7671

n-linking and n-splitting. *Amer. J. Math.* 92 (1970), 272-282. (R. H. Fox) 41 #4520

Handlebodies in 3-manifolds. *Proc. Amer. Math. Soc.* 26 (1970), 534-538. (R. H. Fox) 41 #9236

Smythe, William R., Jr.

* (with Johnson, Lynwood A.) Introduction to linear programming with applications. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1966. viii + 221 *pp.* (H. F. Karreman) 34 #5513

S.-Nad′, Bèla. See Sz.-Nagy, Béla.

Šnaĭderman, Ja. I.

(with Dalec′kiĭ, Ju. L.) Diffusion and quasiinvariant measures on infinite-dimensional Lie groups. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 2, 88-90. (R. M. Dudley) 40 #2138

Snaith, V. P.

Massey products in K-theory. *Proc. Cambridge Philos. Soc.* 68 (1970), 303-320. (G. J. Porter) 42 #6813

Massey products in K-theory. II. *Proc. Cambridge Philos. Soc.* 69 (1971), 259-289. (J. P. May) 44 #5965

On the K-theory of homogeneous spaces and conjugate bundles of Lie groups. *Proc. London Math. Soc.* (3) 22 (1971), 562-584. (M. F. Atiyah) 44 #7584

Šnajder, Zagorka

Eine Eigenschaft der Spurenbestimmung eines $(n-2)$-dimensionalen Raumes $\sum_{(n-2)}$ in einem E_n Raum. (Serbo-Croatian summary) *Bull. Soc. Math. Phys. Serbie* 11 (1959), 27-34. (G. Pickert) 32 #378

Eine Interpretation der graphischen Methode von Van den Berg und Mehmke vom Standpunkte der mehrdimensionalen darstellenden Geometrie. (Serbo-Croation summary) *Bull. Soc. Math. Phys. Serbie* 11 (1959), 35-44. (G. Pickert) 32 #380

Spur- und Fluchtpunktsmethode bei Zentralprojektion im hyperbolischen Raum. *Mat. Vesnik* 2(17) (1965), 127-136. (L. Gyarmathi) 33 #7922

Über die Darstellung einer Ebene durch zwei Normalprojektionen im dreidimensionalen euklidischen Raum. *Mat. Vesnik* 5(20) (1968), 279-285. 38 #3753

Snapper, Ernst

Cohomology of permutation representations. II. Cup product. *J. Math. Mech.* 13 (1964), 1047-1064. (R. Brown) 30 #136

Duality in the cohomology ring of transitive permutation representations. *J. Math. Mech.* 14 (1965), 323-336. (D. S. Rim) 31 #5890

Inflation and deflation for all dimensions. *Pacific J. Math.* 15 (1965), 1061-1081. (G. Hirsch) 35 #5516

Injective modules under change of rings. *Proc. Amer. Math. Soc.* 16 (1965), 788-790. (D. S. Rim) 31 #5886

Spectral sequences and Frobenius groups. *Trans. Amer. Math. Soc.* 114 (1965), 133-146. (D. K. Harrison) 33 #5737

The polynomial of a permutation representation. *J. Combinatorial Theory* 5 (1968), 105-114. (L. K. Durst) 37 #3937

Normal subsets of finite groups. *Illinois J. Math.* 13 (1969), 155-164. (D. K. Friesen) 38 #3331

Group characters and nonnegative integral matrices. *J. Algebra* 19 (1971), 520-535. (J. S. Frame) 44 #1748

Sneddon, Ian N.

* (with Berry, D. S.) Классическая теория упругости. (Russian) [The classical theory of elasticity] Translated from the English by A. I. Smirnov. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1961. 219 *pp.* (Editors) 31 #2861

(See also Korovkin, P. P., 37 #5340)

(with Srivastav, R. P.) Dual series relations. I. Dual relations involving Fourier-Bessel series. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 150-160 (1964). (A. E. Danese) 29 #3816

* Spezielle Funktionen der mathematischen Physik und Chemie. Übersetzung aus dem Englischen. B. I. Hochschultaschenbücher, Band 54: Mathematische, Formelsammlung II. *Bibliographisches Institut, Mannheim,* 1963. 166 *pp.* (Editors) 35 #1835

Dual equations in elasticity. *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963*), Vol. I, Mechanics of Solids (Russian), pp.* 76-94. *Izdat. Nauka, Moscow,* 1965. (R. A. Westmann) 32 #6749

The relation between load and penetration in the axisymmetric Boussinesq problem for a punch of arbitrary profile. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 47-57. (W. D. Collins) 32 #651

A relation involving Hankel transforms with applications to boundary value problems in potential theory. *J. Math. Mech.* 14 (1965), 33-40. (V. P. Mainra) 30 #4121

A note on the problem of the penny-shaped crack. *Proc. Cambridge Philos. Soc.* 61 (1965), 609-611. (R. Muki) 30 #4430

(See also Gel′fond, A. O.; Linnik, Ju. V., 34 #1252)

* (with Mott, N.) Волновая механика и ее применения. (Russian) [Wave mechanics and its applications] Translated from the English by V. L. Gurevič. *Izdat. "Nauka", Moscow,* 1966. 427 *pp.* (Editors) 34 #3893

* Mixed boundary value problems in potential theory. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1966. viii + 283 *pp.* (R. Shail) 35 #6853

The Reissner-Sagoci problem. *Proc. Glasgow Math. Assoc.* 7, 136-144 (1966). (G. Rieder) 33 #6903

(See also MacRobert, T. M., 36 #4037)

The evaluation of an integral involving the product of two Gegenbauer polynomials. *SIAM Rev.* 9 (1967), 569-572. (H. Kober) 36 #2844

A procedure for deriving inversion formulae for integral transform pairs of a general kind. *Glasgow Math. J.* 9 (1968), 67-77. (L. J. Slater) 37 #4516

(See also Handbook of mathematics, 40 #1223)

* (with Lowengrub, M.) Crack problems in the classical theory of elasticity. *John Wiley & Sons, Inc., New York-London-Sydney,* 1969. viii + 221 *pp.* (M. Sokołowski) 41 #2986

The inversion of Hankel transforms of order zero and unity. *Glasgow Math. J.* 10 (1969), 156-161. (V. P. Mainra) 40 #4703

Sneed, Joseph D.

Von Neumann's argument for the projection postulate. *Philos. Sci.* 33 (1966), 22-39. (T. Kahan) 35 #6426

Šneerson, M. S.

On a class of solenoidal vector fields. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 81-88. (W. Wrona) 35 #911

Maxwell's equations and functionally invariant solutions of the wave equation. (Russian) *Differnecial'nye Uravnenija* 4 (1968), 743-758. (C. A. Hurst) 37 #7141

(with Kudrjavceva, N. F.) Linear zero-divergence transformations and the Hall effect. (Russian) *Differencial'nye Uravnenija* 7 (1971), 376-377. (J. E. Rosenthal) 44 #6214

Šneĭder, A. A.

(with Žak, I. E.) Conditions for uniform convergence of double sine series. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 44-52. (F. Ustina) 33 #6295

(with Žak, I. E.) On uniform convergence of a certain class of double trigonometrical series. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 41 (1966), 273-276. (F. Ustina) 35 #664

Šneĭder, B. N.

Algebra of sets applied to solution of graph theory problems. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 3, 109-114 *(Russian); translated as Engrg. Cybernetics* 8 *(*1970*), no.* 3, 521-526 (1971). (W.-K. Chen) 43 #4714

Sneider, M. A. See Sneider Ludovici, Maria Adelaide.

Šneĭder, V. E.

On the Souslin problem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 118-126. (J. Mařík) 30 #1059

Baire functions in countable union spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 5 (54), 142-153. (J. G. Ceder) 34 #3517

A metrization theorem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 6 (73), 122-124. (E. Halfar) 37 #3516

Sneider Ludovici, Maria Adelaide

Sul calcolo numerico delle soluzioni di particolari equazioni integrali di Volterra di prima specie. *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 28 (1967/68), *fasc.* 2, 23-39 (1969). (G. F. Miller) 42 #1366

Su una classe di problemi di derivata obliqua per le funzioni armoniche in due variabili. (English summary) *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 103 (1968/69), 627-640. (M. Berlot) 41 #5644

Sul cerchio minimo contenente tutti gli autovalori di un operatore integrale di Fredholm con nucleo in L^2. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 145-150. (S. Goldberg) 41 #9065

Esistenza e calcolo della soluzione di un problema al contorno che interessa la scienza delle costruzioni. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 103 (1969), 451-461. (A. Haimovici) 40 #575

Snell, Dž. Lori. See Snell, J. Laurie.

Snell, E. J.

A scaling procedure for ordered categorical data. *Biometrics* 20 (1964), 592-607. 31 #5258

(with Cox, D. R.) A general definition of residuals. (With discussion) *J. Roy. Statist. Soc. Ser. B* 30 (1968), 248-275. (M. Atiqullah) 38 #5345

Snell, J.

The solution in Chebyshev series of systems of linear differential equations with general boundary conditions. *Comput. J.* 13 (1970), 103-106. (Author's summary) 41 #1232

Snell, J. Laurie

* (with Kemeny, John G.; Thompson, Gerald L.) Einführung in die endliche Mathematik. Deutsche Übersetzung: Ferdinand Lipowsky und Luitgard Sieber. *Fachverlag für Wirtschaftstheorie und Ökonometrie, Ludwigshafen am Rhein,* 1963. vii + 386 *pp.* (Editors) 32 #3846

* (with Kemeny, John G.; Knapp, Anthony W.) Denumerable Markov chains. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1966. xi + 439 *pp.* (J. L. Doob) 34 #6858

(with Denzel, G. E.; Kemeny, J. G.) Excessive functions for a class of continuous time Markov chains. *Markov Processes and Potential Theory (Proc. Sympos. Math. Res. Center, Madison, Wis.,* 1967*), pp.* 61-86. *Wiley, New York,* 1967. (S. C. Port) 38 #1752

(with Kemeny, John G.) Excessive functions of continuous time Markov chains. *Bull. Amer. Math. Soc.* 73 (1967), 216. (S. C. Port) 35 #7413

(with Kemeny, John G.) Excessive functions of continuous time Markov chains. *J. Combinatorial Theory* 3 (1967), 256-278. (D. L. Iglehart) 35 #7414

* (with Kemeny, John G.) Конечные цехи Маркова. (Russian) [Finite Markov chains] Translated from the English by S. A. Molčanov, N. B. Levina and Ja. A. Kogan. Edited by A. A. Juškevič. *Izdat. "Nauka", Moscow,* 1970. 271 *pp.* (Editors) 43 #1278

(with Kemeny, John G.) Markov chains and summability methods. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 17-33. (J. G. Mauldon) 44 #7184

Snell, R. I.

(with Jones, William B.) Truncation error bounds for continued fractions. *SIAM J. Numer. Anal.* 6 (1969), 210-221. (E. Frank) 40 #1000

Šneperman, L. B.

Semigroups of endomorphisms of quasi-ordered sets. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 238 (1962), 21-37. (B. M. Schein (Šaĭn)) 29 #2311

} Semigroups of continuous mappings of topological spaces. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 221-229. (M. A. Geraghty) 31 #1660

On a universal bicompact topological semigroup. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 184-187. (B. M. Schein (Šaĭn)) 33 #1398

Representations of topological semigroups. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 197-214. *Tartu. Gos. Univ., Tartu,* 1966. (K. A. Ross) 34 #277

The fixed point of a semigroup of transformations and invariant integration. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 215-216. *Tartu. Gos. Univ., Tartu,* 1966. (K. A. Ross) 34 #624

Representation of topological semigroups by continuous transformations. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 768-771. (K. A. Ross) 33 #6602

The semigroups of the homeomorphisms of a simple arc. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 2 (51), 127-136. (K. A. Ross) 33 #3271

A fixed point of a semigroup of transformations and invariant integration on a bicompact semigroup. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 4, 30-36. (Edwin Hewitt) 34 #8203

Finite-dimensional representations of some bicompact topological semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 538-540. (K. A. Ross) 36 #2732

The imbedding of a topological semigroup into a bicompact topological semigroup. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 267-275. (S. Swierczkowski) 37 #1511

The duality theorem for commutative bicompact topological semigroups. (Russian) *Mat. Zametki* 1 (1967), 531-536. (A. B. Paalman-de Miranda) 35 #3371

On the theory of characters of locally bicompact topological semigroups. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 508-532. (G. E. Dimitroff) 38 #5984

The imbedding of topological semigroups in topological groups. (Russian) *Mat. Zametki* 6 (1969), 401-409. (R. M. Dacić) 41 #3652

Representations of a weakly uniform band of groups by Hilbert space operators. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 1, 63-69. (A. J. Coleman) 41 #3653

Densely embedded ideals of topological semigroups. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 6, 19-24. (Št. Schwarz) 44 #6895

The representations of a locally bicompact semigroup into discrete ones. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 1068-1070. (R. Goodman) 44 #4138

H-representations of locally bicompact inverse semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 3 (94), 96-104. (K. A. Ross) 44 #4139

Finite-dimensional representations of inverse bicompact semigroups. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 668-676. (Št. Schwarz) 43 #3360

Šneps-Šneppe, M.

A generalization of the Erlang formula for a non-ordinary flow. (Russian) *Problemy Peredači Informacii No.* 17 (1964), 103-105. 33 #1906

(with Jonins, G.) Statistical equivalence of time and call estimates in queueing systems. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 2 *(Russian), pp.* 99-102. *Izd* *"Zinatne", Riga,* 1966. (Authors' summary) 34 #8506

(with Ikaunieks, E.) Investigation of the exactness of estimates of loss probability in a one-line system. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 6 *(Russian* *pp.* 187-206. *(loose errata) Izdat. "Zinatne", Riga,* 1969. (Author summary) 41 #2801

Śniatycki, A.

Transport problems for variable functions of demand and supply. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 291-306. 32 #3859

Śniatycki, Aleksander

(with Honchera, Włodzimierz) A system of axioms for plane geometry based on the concept of a function defined on a set of angles. (Polish. English summary) *Zeszyty Nauk. Mat. Fiz. i Chem. Wyż. Szkoł. Ped. Gdańsk.* 8 (1968), 15-18. (V. Havel) 40 #6339

A system of axioms for plane geometry based on the coincidenc relation for segments and angles. (Polish. English summary) *Zeszyty Nauk. Mat. Fiz. i Chem. Wyż. Szkoł. Ped. Gdańsk.* 8 (1968), 19-25. (V. Havel) 40 #6340

An axiomatics of non-Desarguean geometry based on the half-plane as the primitive notion. *Dissertationes Math. Rozprasy Mat.* 59 (1968), 45 *pp.* (F. Bachmann) 37 #5759

Śniatycki, Jedrzej

On the geometric structure of classical field theory in Lagrangian formulation. *Proc. Cambridge Philos. Soc.* 68 (1970), 475-484. (Lincoln E. Bragg) 41 #6546

Snider, D. R.

(with Lipinski, H. M.) O(4) expansion of the Bethe-Salpeter equation for πρ scattering. *Phys. Rev.* (2) 179 (1969), 1315-1326. (C.-H. Woo) 39 #2411

Snider, Robert F.

Variational methods for solving the Boltzmann equation. *J. Chem. Phys.* 41 (1964), 591-595. (Author's summary) 29 #1954

(with McCourt, F. R.) Thermal conductivity of a gas with rotational states. I, II. *J. Chem. Phys.* 41 (1964), 3185-3194; *ibid.* 43 (1965), 2276-2283. (K. Imre) 33 #1104

Perturbation variation methods for a quantum Boltzmann equation. *J. Mathematical Phys.* 5 (1964), 1580-1587. (L. J. F. Broer) 29 #6874

(with Coope, J. A. R.; McCourt, F. R.) Irreducible Cartesian tensors. *J. Chem. Phys.* 43 (1965), 2269-2275. (R. Keown) 32 #8276

(with Coope, J. A. R.) Irreducible Cartesian tensors. II. General formulation. *J. Mathematical Phys.* 11 (1970), 1003-1017. (C. W. Kilmister) 41 #6083

Snider, Robert L.

Subdirect decompositions of extension rings. *Michigan Math. J.* 16 (1969), 225-226. (G. Renault) 40 #1431

(with Fletcher, P.) Topological Galois spaces. *Fund. Math.* 68 (1970), 143-148. (M. E. Shanks) 42 #1089

Complemented hereditary Radicals. *Bull. Austral. Math. Soc.* 4 (1971), 307-320. (Timon Anderson) 43 #6253

Snirel'man, A. I.

Convolution equations in the halfspace. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 476-493. (M. Cotlar) 42 #3627

(See also Ljusternik, L. A., 43 #1213)

Snively, James W., Jr.

Optimal algorithmic encoding schemes for information sources. *IEEE Trans. Information Theory* IT-14 (1968), 340-348. (S. Guiaşu) 40 #7015

Šnol', È. È.

(with Hazin, L. G.) The problem of the gravitational stability of a dust cloud. *Dokl. Akad. Nauk SSSR* 185 (1969), 1018-1021 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 322-325. 41 #4997

Groups which operate in phase space. (Russian) *Mat. Zametki* 5 (1969), 55-61. (M. Havlíček) 39 #2372

Šnol', I. È. See Šnol', È. È.

de Snoo, H. S. V.

(with Meulenbeld, B.) Integrals involving generalized Legendre functions. *J. Engrg. Math.* 1 (1967), 285-291. (S. K. Chatterjea) 36 #6667

An extension of Neumann's integralrelation for generalized Legendre functions. *Duke Math. J.* 37 (1970), 71-75. (B. L. Sharma) 42 #556

Inversion theorems for some generalized Laplace transforms. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 222-234. (P. G. Rooney) 41 #5895a

(The sign } indicates an entry in the supplement.)

Inversion theorems for some generalized Laplace transforms. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 235-244. (P. G. Rooney) 41 #5895b

Snow, Barbara A. S.

The distribution of Kendall's tau for samples of four from a normal bivariate population with correlation ρ. *Biometrika* 50 (1963), 538-540. (P. S. Dwyer) 29 #4151

Snow, C. R.

(with Scoins, H. I.) Towards the unique decomposition of graphs. *Machine Intelligence*, 4, *pp.* 45-55. *American Elsevier, New York*, 1969. (From the authors' introduction) 40 #3755

Snow, Donald R.

Singular optimal controls for a class of minimum effort problems. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 203-219. (E. O. Roxin) 30 #5026

Determining reachable regions and optimal controls. *Advances in Control Systems. Vol.* 5, *pp.* 133-196. *Academic Press, New York*, 1967. (E. O. Roxin) 36 #2034

Carathéodory-Hamilton-Jacobi theory in optimal control. *J. Math. Anal. Appl.* 17 (1967), 99-118. (M. R. Hestenes) 34 #8852

Snow, E. C.

(with Canfield, J. M.; Waber, J. R.) Total energies from numerical self-consistent field calculations. *Phys. Rev.* (2) 135 (1964), A969-A973. (T. Erber) 30 #3703

Snow, G. A.

(with DeSouza, P. D.; Meshkov, S.) *S*-wave hyperon-nucleon interactions and SU_3 symmetry. *Phys. Rev.* (2) 135 (1964), B565-B567. (Y. Ne'eman) 30 #2850

Snowden, D. D.

(with Acrivos, Andreas; Grove, A. S.; Petersen, E. E.) The steady separated flow past a circular cylinder at large Reynolds numbers. *J. Fluid Mech.* 21 (1965), 737-760. (1 *plate*) (M. G. Hall) 30 #5604

Snyder, A. K.

Conull and coregular *FK* spaces. *Math. Z.* 90 (1965), 376-381. (B. E. Rhoades) 32 #2783

Some remarks on heavy points in countable spaces. *J. Analyse Math.* 20 (1967), 271-279. (J. R. Isbell) 35 #5814

(with Chang, Shao-chien; Macphail, M. S.; Wilansky, A.) Consistency and replaceability for conull matrices. *Math. Z.* 105 (1968), 208-212. (F. Ustina) 37 #5568

On generating heavy points with positive matrices. *Proc. Amer. Math. Soc.* 19 (1968), 973-975. (I. J. Maddox) 37 #3242

The Čech compactification and regular matrix summability. *Duke Math. J.* 36 (1969), 245-252. (M. Katětov) 40 #2005

Harmonic functions on the disk and regular matrix summability. *Illinois J. Math.* 13 (1969), 406-413. (R. Jajte) 39 #457

Snyder, D. Paul

Models for lofical entailment. *Logique et Analyse (N.S.)* 9 (1966), 344-359. (K. Schütte) 38 #32

Snyder, H. H.

* A hypercomplex function-theory associated with Laplace's equation. Mathematische Forschungsberichte, XXIII. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1968. 99 *pp.* (J. A. Ward) 37 #6472

Snyder, Larry E.

Continuous Stolz extensions and boundary functions. *Trans. Amer. Math. Soc.* 119 (1965), 417-427. (T. J. Kaczynski) 31 #4865

The Baire classification of ordinary and approximate partial derivatives. *Proc. Amer. Math. Soc.* 17 (1966), 115-123. (A. M. Bruckner) 32 #4224

Approximate Stolz angle limits. *Proc. Amer. Math. Soc.* 17 (1966), 416-422. (A. M. Bruckner) 32 #5822

Stolz angle convergence in metric spaces. *Pacific J. Math.* 22 (1967), 515-522. (W. Nitka) 36 #848

Bi-arc boundary functions. *Proc. Amer. Math. Soc.* 18 (1967), 808-811. (J. L. Kazdan) 36 #2804

Snyder, Martin Avery

* Chebyshev methods in numerical approximation. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1966. x + 114 *pp.* (J. R. Rice) 34 #5257

(with Stone, Lawrence D.; Belkin, Barry) Distribution of time above a threshold for Markov processes. *J. Math. Anal. Appl.* 30 (1970), 448-470. (S. C. Port) 41 #2765

Snyder, Walter S.

(with Wright, Harvel) On the differentiability of arbitrary real-valued set functions. I. *Trans. Amer. Math. Soc.* 145 (1969), 439-454. (T. A. Botts) 40 #4416

(with Wright, Harvel) On the differentiability of arbitrary real-valued set functions. II. *Trans. Amer. Math. Soc.* 161 (1971), 111-122. (T. A. Botts) 43 #7578

Snyders, Jakov

(with Zakai, Moshe) Stationary probability measures for linear differential equations driven by white noise. *J. Differential Equations* 8 (1970), 27-33. (J. Fichefet) 41 #4685

(with Snyders, J.) On nonnegative solutions of the equation $AD + DA' = -C$. *SIAM J. Appl. Math.* 18 (1970), 704-714. (W. Ledermann) 41 #3501

So, Hing C.

A method for computing the transfer-function partial-fraction expansion from the state equations. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968), *pp.* 362-373. *Univ. of Illinois. Urbana, Ill.*, 1968. (Author's summary) 41 #8067

(with Sandberg, I. W.) A two-sets-of-eigenvalues approach to the computer analysis of linear systems. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968), *pp.* 332-361. *Univ. of Illinois, Urbana, Ill.*, 1968. (Editors) 41 #8066

(with Sandberg, Irwin W.) A two-sets-of-eigenvalues approach to the computer analysis of linear systems. *IEEE Trans. Circuit Theory* CT-16 (1969), 509-517. (G. Blanch) 40 #8243

Soare, Robert I.

Sets with no subset of higher degree. *J. Symbolic Logic* 34 (1969), 53-56. (D. A. Martin) 41 #8228

Cohesive sets and recursively enumerable Dedekind cuts. *Pacific J. Math.* 31 (1969), 215-231. (K. Appel) 40 #2542

Recursion theory and Dedekind cuts. *Trans. Amer. Math. Soc.* 140 (1969), 271-294. (P. Young) 39 #3997

(with Jockusch, Carl G., Jr.) Minimal covers and arithmetical sets. *Proc. Amer. Math. Soc.* 25 (1970), 856-859. (S. Feferman) 42 #67

(with Jockusch, Carl G., Jr.) A minimal pair of Π_1^0 classes. *J. Symbolic Logic* 36 (1971), 66-78. (R. L. Goodstein) 44 #68

Soares, Rui João Baptista

Aspects of the theory of sampling. (Portuguese) *Gaz. Mat. (Lisboa)* 29 (1968), *no.* 109-112, 36-44. (R. G. Stanton) 40 #6722

Sobčuk, V. S.

A similarity theorem for surfaces of R_n in a Riemannian space R_m (Russian). *Ukrain. Mat. Ž.* 16 (1964), 413-417. (B. Cenkl) 30 #541

Uniqueness theorems for curves and hypersurfaces in a Riemannian space. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 613-615. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. 34 #755

Riemannian spaces which admit a generalized-recurrent symmetric tensor of the second order. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 1247-1250. (I. Vaisman) 39 #3424

A certain class of normal Riemannian spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 15 (1970), 65-78. (C. Simionescu) 44 #4680

Sobczyk, Andrew

On the Curtiss nonsingularity condition in harmonic polynomial interpolation. *J. Soc. Indust. Appl. Math.* 12 (1964), 499-514. (J. L. Ullman) 30 #3225

A property of algebraic homogeneity for linear function-spaces. *Amer. Math. Monthly* 72 (1965), 28-31. (Edwin Hewitt) 30 #4764

Rank-sets and rank-spaces in linear function spaces. *Amer. Math. Monthly* 72 (1965), 31-34. (Edwin Hewitt) 30 #4765

Some unsymmetric combinatorial numbers. *Bull. Amer. Math. Soc.* 72 (1966), 512-514. (P. Erdős) 33 #1252

The simple dimension of a topological space. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos.,* 1966), *pp.* 341-346. *Academia, Prague,* 1967. (E. Nunnally) 39 #3468

Partitions induced by linear function-spaces. *J. Elisha Mitchell Sci. Soc.* 83 (1967), 41-45. (D. J. H. Garling) 38 #3278

Minkowski planes. *Math. Ann.* 173 (1967), 181-190. (H. R. Müller) 36 #778

The obliquity-type of a set of vectors. *Math. Scand.* 21 (1967), 195-198 (1969). (C. F. Moppert) 39 #1463

Graph-colouring and combinatorial numbers. *Canad. J. Math.* 20 (1968), 520-534. (H. V. Kronk) 37 #2615

(with Kenelly, John W.) Canonical placement of simplices. *Math. Mag.* 41 (1968), 150-152. (J. J. Burckhardt) 38 #1582

Sobczyk, Kazimierz

Scattering of a plane elastic wave at a random surface. (Polish and Russian summaries) *Proc. Vibration Problems* 6 (1965), 99-109. (Editors) 31 #2897

Sobel, Eugene

Prediction of a noise-distorted, multivariate, non-stationary signal. *J. Appl. Probability* 4 (1967), 330-342. (E. J. Hannan) 35 #6317

Sobel, Matthew J.

Smoothing start-up and shut-down costs in sequential production. *Operations Res.* 17 (1969), 133-144. (C. Pearce) 40 #2177

Optimal average-cost policy for a queue with start-up and shut-down costs. *Operations Res.* 17 (1969), 145-162. (C. Pearce) 40 #2178

Making short-run changes in production when the employment level is fixed. *Operations Res.* 18 (1970), 35-51. (K. J. Arrow) 42 #4183

Sobel, Milton

(with Olkin, Ingram) Integral expressions for tail probabilities of the multinomial and negative multinomial distributions. *Biometrika* 52 (1965), 167-179. (P. A. P. Moran) 34 #6895

(with Cacoulos, Theophilos) An inverse-sampling procedure for selecting the most probable event in a multinomial distribution. *Multivariate Analysis (Proc. Internat. Sympos., Dayton, Ohio, 1965), pp.* 423-455. *Academic Press, New York,* 1966. (Authors' summary) 35 #7483

(with Savage, I. Richard; Woodworth, George) Fine structure of the ordering of probabilities of rank orders in the two sample case. *Ann. Math. Statist.* 37 (1966), 98-112. (C. H. Kraft) 32 #4791

(with Groll, Phyllis A.) Binomial group-testing with an unknown proportion of defectives. *Technometrics* 8 (1966), 631-656. (J. Sacks) 35 #5066

(with Barndorff-Nielsen, O.) On the distribution of the number of admissible points in a vector random sample. (Russian summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 283-305. (Bernard Harris) 34 #6819; erratum, 35, p. 1577

(with Rizvi, M. Haseeb) Nonparametric procedures for selecting a subset containing the population with the largest α-quantile. *Ann. Math. Statist.* 38 (1967), 1788-1803. (S. Blumenthal) 36 #4745

Nonparametric procedures for selecting the t populations with the largest α-quantiles. *Ann. Math. Statist.* 38 (1967), 1804-1816. (S. Blumenthal) 36 #4746

* (with Bechhofer, Robert E.; Kiefer, Jack) Sequential identification and ranking procedures, with special reference to Koopman-Darmois populations. Statistical Research Monographs, Vol. 3. *The University of Chicago Press, Chicago, Ill.-London,* 1968. xvii + 420 pp. (E. J. Dudewicz) 39 #6445

Optimal group testing. *Proc. Colloquium on Information Theory (Debrecen, 1967), Vol. II, pp.* 411-488. *János Bolyai Math. Soc., Budapest,* 1968. (D. R. Truax) 41 #2839

(with Robbins, Herbert E.; Starr, Norman) A sequential procedure for selecting the largest of k means. *Ann. Math. Statist.* 39 (1968), 88-92. (D. Siegmund) 36 #6068

(with Rizvi, M. Haseeb; Woodworth, George G.) Nonparametric ranking procedures for comparison with a control. *Ann. Math. Statist.* 39 (1968), 2075-2093. (P. R. Krishnaiah) 38 #5332

(with Mahamunulu, Desu M.) A fixed subset-size approach to the selection problem. *Biometrika* 55 (1968), 401-410. (I. Guttman) 38 #1782

Binomial and hypergeometric group-testing. *Studia Sci. Math. Hungar.* 3 (1968), 19-42. (D. R. Truax) 38 #5325

Selecting a subset containing at least one of the t best populations. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio, 1968), pp.* 515-540. *Academic Press, New York,* 1969. (S. S. Gupta) 41 #2832

(with Hadian, Abdollah) Ordering the t largest of n items using binary comparisons. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 238-251. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (J. W. Moon) 42 #4417

(with Katz, Leo) Coverage by randomly placed rooks. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 324-331. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (J. H. van Lint) 42 #5810

(with Weiss, George H.) Inverse sampling and other selection procedures for tournaments with 2 or 3 players. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 515-543. *Cambridge Univ. Press, London,* 1970. (S. Panchapakesan) 43 #2793

(with Weiss, George H.) Play-the-winner sampling for selecting the better of two binomial populations. *Biometrika* 57 (1970), 357-365. (V. Fabian) 43 #7014

(with Tong, Yung Liang) Optimal allocation of observations for partitioning a set of normal populations in comparison with a control. *Biometrika* 58 (1971), 177-181. (Authors' summary) 43 #8182

Sobel'man, I. I.

(with Presnjakov, L. P.) Propagation of electromagnetic waves in a medium with variable refraction index. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 57-63. (1 *fold-out*) (D. ter Haar) 32 #8685

Sobel'man, V. I.

(with Šura-Bura, M. R.) Realization of recursive procedures in the ALGOL-60 language. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 303-316. (R. See) 29 #3009

Sobieszek, Wiesław

On the functional equation $f(x) = \max_{0 \le y \le x} (F[g(y), h(x - y) + f[a(y) + b(x - y)]).$ *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 7 (1962), 49-52. (J. Aczél) 33 #6184

On a certain class of conditional extremal problems. (Polish. Russian and English summaries) *Zastos. Mat.* 8 (1965), 169-177. (H. Fast) 32 #5819

The solution of the equation $f(x) = \max_{0 \le y \le x} \{g(y) + h(x - y) + f[ay + b(x - y)]\}$ in the case of concave functions. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz. Zeszyt* 15 (1970), 125-146. (J. Morávek) 43 #4454

(with Stolarz, J.) The nonuniqueness of solutions of the equation $f(x) = \max_{y_1 + y_2 \le x} [g(y_1) + h(y_2) + f(ay_1 + by_2 + x - y_1 - y_2)]$. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz. Zeszyt* 15 (1970), 147-160. (Authors' summary) 43 #1623

Sobirov, G. S.

(with Rozenfel'd, B. A.; Kubesov, A. K.) Who was the author of the Roman edition of ***"Euclidis elementorum geometricorum libri tredecim ex traditione doctissimi Nasiridini Tusini"?*** (Russian) *Voprosy Istor. Estest. i Tehn. Vyp.* 20 (1966), 51-53. (I. N. Veselovskiĭ) 36 #4943

Sobociński, Bolesław

A note on modal systems. *Notre Dame J. Formal Logic* 4 (1963), 155-157. (E. J. Lemmon) 29 #4684

A note on the generalized continuum hypothesis. III. *Notre Dame J. Formal Logic* 4 (1963), 233-240. (L. Gillman) 30 #1946

A theorem of Sierpiński on triads and the axiom of choice. *Notre Dame J. Formal Logic* 5 (1964), 51-58. (L. Gillman) 31 #3343

Remarks about axiomatizations of certain modal systems. *Notre Dame J. Formal Logic* 5 (1964), 71-80. (E. J. Lemmon) 31 #43

A note on Prior's systems in "The theory of deduction". *Notre Dame J. Formal Logic* 5 (1964), 139-140. (A. Rose) 31 #2142

On the propositional system A of Vučković and its extension. I, II. *Notre Dame J. Formal Logic* 5 (1964), 141-153; *ibid.* 5 (1964), 223-237. (A. Rose) 36 #4965

Modal system S4.4. *Notre Dame J. Formal Logic* 5 (1964), 305-312. (E. J. Lemmon) 31 #3324

Family K of the non-Lewis modal systems. *Notre Dame J. Formal Logic* 5 (1964), 313-318. (E. J. Lemmon) 31 #3325

A note on certain set-theoretical formulas. *Notre Dame J. Formal Logic* 6 (1965), 157-160. (J. R. Büchi) 33 #2551

Note on G. J. Massey's closure-algebraic operation. *Notre Dame J. Formal Logic* 11 (1970), 343-346. (I. Ruzsa) 43 #6061

Certain extensions of modal system S4. *Notre Dame J. Formal Logic* 11 (1970), 347-368. (R. A. Bull) 43 #3100

Note on Zeman's modal system S4.04. *Notre Dame J. Formal Logic* 11 (1970), 383-384. (R. A. Bull) 43 #3097

Lattice-theoretical and mereological forms of Hauber's law. *Notre Dame J. Formal Logic* 12 (1971), 81-85. 44 #41

Atomistic mereology. I. *Notre Dame J. Formal Logic* 12 (1971), 89-103. 44 #42

Atomistic mereology. II. *Notre Dame J. Formal Logic* 12 (1971), 203-213. 44 #2585

A note on an axiom-system of atomistic mereology. *Notre Dame J. Formal Logic* 12 (1971), 249-251. 44 #2586

Sobol', I. M.

The application of Haar series in the theory of quadrature formulae. (Russian) *Probl. Numer. Math. Comp. Techn. (Russian), pp.* 31-35. *Gosudarstv. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1963. (A. H. Stroud) 32 #1905

Periods of pseudo-random sequences. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 367-373. (G. E. Noether) 29 #637

* (with Buslenko, N. P.; Golenko, D. I.; Šreĭder, Ju. A.; Sragovič, V. G.) The Monte Carlo method. The method of statistical trials. Edited by Ju. A. Šreĭder. Translated from the Russian by G. J. Tee. Translation edited by D. M. Parkyn. International Series of Monographs in Pure and Applied Mathematics, Vol. 87. *Pergamon Press, Oxford-New York-Paris,* 1966. xii + 381 pp. *(Loose errata).* (Editors) 35 #2455

Distribution of points in a cube and integration nets. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 271-272. (A. H. Stroud) 33 #6833

An integral occurring in the theory of quadrature formulae. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 1084-1089. (G. Biriuk) 34 #3789

The use of Haar's series for an estimate of the error in the evaluation of infinite-dimensional integrals. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 34-37. (A. H. Stroud) 35 #6367

Distribution of points in a cube and approximate evaluation of integrals. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 784-802. (M. Zlámal) 36 #2321

Метод Монте-Карло. (Russian) [The Monte Carlo method] *Izdat. "Nauka", Moscow,* 1968. 64 pp. (Editors) 39 #1080

Soboleff, S. L. See Sobolev, S. L.

Soboleff, V. I. See Sobolev, V. I.

obolenko, L. A.

(with Pšeničnyĭ, B. N.) An accelerated method of solution of a linear time-optimal problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1345-1352. (Š. Schwabik) 39 #2299

obolev, A. I.

(with Vorob′ev, N. N.; Malinnikov, V. V.) Linear programming problems on oriented graphs. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 622-628. (Authors' introduction) 43 #1625

On a game of Borel. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 558-561. (B. O. Shubert) 43 #4478

obolev, O. S.

Analysis of the structure of a higher-dimensional automatic system with a non-linear connection. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 347-355. (Author's summary) 29 #3303

obolev, S. L.

* Sur les équations aux dérivées partielles hyperboliques non-linéaires. Consiglio Nazionale delle Ricerche Monografie Matematiche, 9. *Edizioni Cremonese, Rome,* 1961. vii + 144 *pp.* (Jeff E. Lewis) 32 #2744

Sur les problèmes mixtes pour les équations aux dérivées partielles à deux variables indépendantes. *Calcutta Math. Soc. Golden Jubilee Commemoration Vol.* (1958/59), *Part II, pp.* 447-484. *Calcutta Math. Soc., Calcutta,* 1963. (B. Frank Jones, Jr.) 29 #2550

* Applications of functional analysis in mathematical physics. Translated from the Russian by F. E. Browder. Translations of Mathematical Monographs, Vol. 7. *American Mathematical Society, Providence, R. I.,* 1963. vii + 239 *pp.* (B. Frank Jones, Jr.) 29 #2624

Équations aux dérivées partielles pour les fonctions extrémales des problèmes du calcul numérique à plusieurs variables indépendantes. *Les Équations aux Dérivées Partielles (Paris, 1962), pp.* 197-206. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1963. (B. Frank Jones, Jr.) 29 #2983

Some new problems in the theory of partial differential equations. *Differential Equations and Their Applications (Proc. Conf., Prague,* 1962*), pp.* 167-177. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (A. O. Garder, Jr.) 29 #6642

(with Nikol′skiĭ, S. M.) Embedding theorems. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*), Vol. I, pp.* 227-242. *Izdat. Akad. Nauk SSSR, Leningrad,* 1963. (R. C. Gilbert) 30 #1419

Some questions of the theory of cubature formulas. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 241-245. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (A. H. Stroud) 34 #5288a

Errata: "Some questions of the theory of the formulas of approximative integration". *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 377-378. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (A. H. Stroud) 34 #5288b

The density of finite functions in the space $L_p^{(m)}(E_n)$. (Russian). *Sibirsk. Mat. Ž.* 4 (1963), 673-682. (A. Alexiewicz) 30 #5156

* Einige Anwendungen der Funktionalanalysis auf Gleichungen der mathematischen Physik. In deutscher Sprache herausgegeben von Günter Zeidler. Mathematische Lehrbücher und Monographien, I. Abteilung, Mathematische Lehrbücher, Band XII. *Akademie-Verlag, Berlin,* 1964. 218 *pp.* (B. Frank Jones, Jr.) 30 #2370

* Partial differential equations of mathematical physics. Translated from the third Russian edition by E. R. Dawson; English translation edited by T. A. A. Broadbent. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. x + 427 *pp.* (R. P. Gilbert) 31 #2478

* Лекции по теории кубатурных формул. Часть I. (Russian) [Lectures on the theory of cubature formulas. Part I] Lectures delivered at Novosibirsk State University, 1963/64. *Novosibirsk. Gosudarstv. Univ., Novosibirsk,* 1964. 192 *pp.* (RŽMat 1965 #5 B551K) 35 #3883

* Лекции по теории кубатурных формул. Часть. II (Russian) [Lectures on the theory of cubature formulas. Part II] Lectures delivered at Novosibirsk State University, 1964/65. *Novosibirsk, Gosudarstv. Univ., Novosibirsk,* 1965. 263 *pp.* (Editors) 35 #3884

Sur une classe des problèmes de physique mathématique. *Simpos. Internaz. Appl. Anal. Fis. Mat. (Cagliari-Sassari,* 1964*), pp.* 192-208. *Edizioni Cremonese, Rome,* 1965. (E. Magenes) 36 #6783

(with Babuška, I.) Optimization of numerical processes. (Russian) *Apl. Mat.* 10 (1965), 96-129. (P. C. Hammer) 32 #8481

On the order of convergence of cubature formulae. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1005-1008. (E. L. Albasiny) 31 #3776

The convergence of approximate integration formulae on functions in the class $L_2^{(m)}$. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1259-1261. (J. Mařík) 31 #3777

Evaluation of integrals of unboundedly differentiable functions. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 33-35. (J. Mařík) 33 #1626

Cubature formulae with a regular boundary layer. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 587-590. (J. Mařík) 33 #472; errata, 33, p. 1601

A difference analogue of a polyharmonic equation. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 54-57. (M. H. Schultz) 32 #7774

Optimal formulas of mechanical quadratures with nodes at the points of regular lattices. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 281-284. (E. L. Albasiny) 32 #6674

Representation of periodic analytic functions by a sum of squares. *Dokl. Akad. Nauk SSSR* 165 (1965), 40-43; *translated as Soviet Math. Dokl.* 6 (1965), 1412-1415. (A. Martineau) 33 #6455

(with Aĭzerman, M. A.; Kreĭn, M. G.; Ljusternik, L. A.; Naĭmark, M. A.; Pontrjagin, L. S.; Hristianovič, S. A.; Šor, Ja. B.) Feliks Ruvimovič Gantmaher. Obituary. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 2 (122), 149-157. (1 *plate*) (Editors) 32 #29

The theory of cubature formulae. (Russian) *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 537-546. (A. H. Stroud) 34 #2183

* Уравнения математической физики. (Russian) [Equations of mathematical physics] Fourth edition. *Izdat. "Nauk", Moscow,* 1966. 443 *pp.* (Editors) 34 #4708

(with Tihonov, A. N.; Erugin, N. P.) To the 50th birthday of A. V. Bicadze. (Russian) *Differencial′nye Uravnenija* 2 (1966), 716-718. (Editors) 33 #1215

Construction of cubature formulas with a regular boundary layer. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 295-297. (A. H. Stroud) 32 #8502

On the density of finite functions in $l_p^{(l)}$. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 516-518. (C. S. Hönig) 34 #3301

Sur une classe des fonctions de plusieurs variables indépendantes. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 133-137. (S. Mandelbrojt) 37 #4284

Theory of approximation of integrals of functions of several variables. (Russian) *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 659-663. *Izdat. "Mir", Moscow,* 1968. (E. L. Albasiny) 39 #1110

The vibrations of a half plane and a layer with arbitrary initial conditions. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 5 (143), 143-176. (Editors) 38 #1863

(See also Bicadze, A. V.; Kantorovič, L. V.; Lavrent′ev, M. A., 38 #17)

The decomposition of periodic analytic functions into a sum of squares. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Moḫsen. Anotacie.* 1 (1969), 29-32. (R. P. Boas, Jr.) 42 #7847

(with Šaskin, Ju. A.) Valentin Konstantinovič Ivanov: On his sixtieth birthday. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 2 (146), 237-243 (1 *plate*). (Editors) 39 #1275

Some problems of the theory of functions of several discrete variables. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969*), pp.* 148-160. *Univ. of Tokyo Press, Tokyo,* 1970. (G. Berzsenyi) 43 #6646

(with Aleksandrov, P. S.; Višik, M. I.; Oleĭnik, O. A.; Petrovskiĭ, I. G.) Lazar Aronovič Ljusternik (on his seventieth birthday). (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 4 (154), 3-10. (1 *plate*). (Editors) 42 #7472

(with Aleksandrov, P. S.; Bogoljubov, N. N.; Migirenko, G. S. Petrovskiĭ, I. G.; Sedov, L. I.) Mihail Alekseevič Lavrent′ev (on his seventieth birthday). (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 6 (156), 5-8. (Editors) 44 #5201

(with Gal′pern, S. A.; Landis, E. M.) Ivan Georgevič Petrovskiĭ (on his seventieth birthday). (Russian) *Differencial′nye Uravnenija* 7 (1971), 553-564. (Editors) 43 #7287

Sobolev, V. I.

* (with Vilenkin, N. Ja.; Gorin, E. A.; Kostjučenko, A. G.; Krasnosel′skiĭ, M. A.; Kreĭn, S. G.; Maslov, V. P.; Mitjagin, B. S.; Petunin, Ju. I.; Rutickiĭ, Ja. B.; Stecenko, V. Ja.; Faddeev, L. D.; Citlanadze, È. D.) Функциональный анализ. (Russian) [Functional analysis] Edited by S. G. Kreĭn. *Izdat. "Nauka", Moscow,* 1964. 424 *pp.* (A. Shields) 32 #1532

* (with Ljusternik, L. A.) Elemente der Funktionalanalysis. Dritte, unveränderte Auflage. *Akademie-Verlag, Berlin,* 1965. xi + 256 *pp.* (Editors) 31 #1537

* (with Ljusternik, L. A.) Элементы функционального анализа. (Russian) [Elements of functional analysis] Second revised edition. *Izdat. "Nauka", Moscow,* 1965. 520 *pp.* (E. Gerlach) 35 #698; erratum, 42, p. 1822

Sobolev, V. V.

(with Kufarev, P. P.; Sporyševa, L. V.) A certain method of investigation of extremal problems for functions that are univalent in the half-plane. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 142-164. (T. Kubo) 41 #1987

On the problem of the relative extremum of a certain functional on the class of functions that are univalent in the half plane. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 184-188. (J. Siciak) 41 #1988

(with Aleksandrov, I. A.) Extremal problems for certain classes of functions that are univalent in the half-plane. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 291-307. (T. Kubo) 42 #1988

Soboleva, S. V.

(with Kufarev, B. P.) The continuum as the global cluster set of a convergent sequence of analytic functions. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 999-1000. (A. J. Lohwater) 30 #4949 (with Kufarev, B. P.) A property of a family of univalent functions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 175 (1964), *vyp.* 2, 5-7. (G. Piranian) 31 #5979

Sobolevskiĭ, P. E.

(with Krasnosel′skiĭ, M. A.) On some non-linear problems for the partial differential equations. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk, 1963), pp.* 129-133. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (E. D. Conway) 34 #4657

An investigation of the Navier-Stokes equations by methods of the theory of parabolic equations in Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 745-748. (P. C. Fife) 29 #1462

Coerciveness inequalities for abstract parabolic equations. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 52-55. (P. Grisvard) 29 #3762

(with Sobolevskiĭ, P. E.) The structure of the set of solutions of an equation of parabolic type. (Russian. English summary) *Ukrain. Mat. Ž.* 16 (1964), 319-333. (W. Bogdanowicz) 29 #3763

Generalized solutions of first order differential equations in Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 486-489. (J. Albrycht) 32 #7909

* (with Krasnosel′skiĭ, M. A.; Zabreĭko, P. P.; Pustyl′nik, E. I.) Интегральные операторы в пространствах суммируемых функций. (Russian) [Integral operators in spaces of summable functions] *Izdat. "Nauka", Moscow,* 1966. 499 *pp.* (H. H. Wicke) 34 #6568

(with Mamedov, Ja. D.) On a theorem of E. Hille. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 22 (1966), *no.* 7, 7-9. (G. C. Barozzi) 34 #4927

Equations $v'(t) + A(t)v(t) = f(t)$ in a Hilbert space, with $A(t)$ a positive definite selfadjoint operator depending measurably on t. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 22 (1966), *no.* 8, 13-16. (J. L. B. Cooper) 34 #6273

On fractional powers of weakly positive operators. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1296-1299. (B. R. Gelbaum) 33 #3137

Investigation of general boundary value problems for parabolic equations by the method of differential equations in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1024-1027. (O. Horáček) 34 #6274

General boundary value problems for quasilinear parabolic equations. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol.* 3: *Differential and Integral Equations (Russian), pp.* 193-197. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (G. C. Barozzi) 41 #2227

Fractional powers of parabolic operators. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol.* 3: *Differential and Integral Equations (Russian), pp.* 188-192. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (H. Triebel) 41 #2462

Comparison theorems for fractional powers of operators. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 294-297. (A. Devinatz) 37 #2034

Parabolic equations in spaces of means. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 281-284. (P. C. Fife) 36 #6752

(with Raskin, V. G.) The Cauchy problem for differential equations of second order in Banach spaces. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 70-90. (I. M. Sheffer) 34 #7929

(with Pogorelenko, V. A.) Hyperbolic equations in a Hilbert space. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 123-145. (J. Glimm) 35 #516

(with Pogorelenko, V. A.) Non-local existence theorem of solutions of non-linear hyperbolic equations in a Hilbert space. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 113-115. (O. Horáček) 34 #7928

The application of fractional powers of operators to the investigation of quasilinear parabolic and elliptic equations and systems. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 127-130. (P. C. Fife) 35 #4565

(with Pogorelenko, V. A.) Hyperbolic equations in a Banach space. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 170-172. (J. Albrycht) 34 #8014

On the s-numbers of integral operators. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 114-116. (A. Kufner) 35 #4774

Elliptic equations in a Banach space. (Russian) *Differencial′nye Uravnenija* 4 (1968), 1346-1348. (D. Wexler) 37 #6627

A certain type of differential equations in a Banach space. (Russian) *Differencial′nye Uravnenija* 4 (1968), 2278-2280. (J. Albrycht) 39 #593

The Bubnov-Galerkin method for parabolic equations in Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 548-551. (G. W. Hedstrom) 36 #6753

Differential equations with unbounded operators which generate nonanalytic semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 292-295. (H. O. Fattorini) 40 #3026

Quasilinear equations in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1020-1023. (D. Bobrowski) 39 #5907

Fractional integration by parts. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1269-1272. (J. Kolomý) 38 #6203

(with Raskin, V. G.) A priori estimates of the solutions of a certain class of nonlinear nonstationary equations. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 547-552. (M. Ráb) 37 #6588

(with Raskin, V. G.) The stabilization of the solutions of a certain class of second order nonlinear equations in Hilbert space. (Russian) *Voronež. S.-h. Inst. Zap.* 35 (1968), 420-423. (K. Goebel) 44 #4337

(with Raskin, V. G.) Expansion of the solutions of second order differential equations in Banach spaces in series of exponential solutions. (Russian) *Differencial′nye Uravnenija* 5 (1969), 543-545. (M. Švec) 40 #3025

(with Titenskiĭ, M. N.) An investigation of the solvability of perturbed parabolic equations in a Banach space, and a generalized Bubnov-Galerkin method for their approximate solution. (Russian) *Differencial′nye Uravnenija* 5 (1969), 1495-1502. (M. Švec) 41 #2185

(with Titenskiĭ, M. N.) A generalized Bubnov-Galerkin method for the approximate solution of parabolic equations. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 6, 41-47. (T. Styś) 43 #3670

(with Smagin, V. V.) Comparison theorems for the norms of the solutions of linear homogeneous differential equations in Hilbert spaces. (Russian) *Differencial′nye Uravnenija* 6 (1970), 2005-2010. (V. V. Barkovskiĭ) 43 #3848

The s-numbers of positive operators. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 1245-1247. (E. Durszt) 42 #5087

(with Anosov, V. P.) The functional equations of semigroup theory. (Russian) *Mat. Zametki* 7 (1970), 635-640. (E. Ja. Gabovič) 42 #395

(with Pogorelenko, V. A.) The solvability of mixed problems for one-dimensional quasilinear hyperbolic equations. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 114-121. (N. D. Kazarinoff) 41 #4002

(with Jasakov, A. I.) The equations of parabolic type with nonpower nonlinearities. (Russian) *Differencial′nye Uravnenija* 7 (1971), 1503-1511, 1542. (R. Guenther) 44 #5624

(with Anosov, V. N.) Coercive solvability of a boundary value problem for a second order elliptic equation in a Banach space. I, II. (Russian) *Differencial′nye Uravnenija* 7 (1971), 2030-2044; *ibid.* 7 (1971), 2191-2198. (H. Triebel) 44 #7166

Degenerate parabolic operators. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 302-304. (R. Beals) 43 #3849

Semigroups of growth α. *Dokl. Akad. Nauk SSSR* 196 (1971), 535-537. (A. B. Buche) 43 #3850

The coercive solvability of difference equations. (Russian) *Dokl. Akad. Nauk SSSR* 201 (1971), 1063-1066. (V. V. Barkovskiĭ) 44 #7375

Sobolevskiĭ, P. I.

(with Janovič, L. A.) The approximate calculation of Wiener integrals. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 2, 22-31. (B. Walsh) 44 #5427

Sobolevsky, P. E. See Sobolevskiĭ, P. E.

Sobolew, S. L. See Sobolev, S. L.

Sobolew, W. I. See Sobolev, V. I.

Sobornīkov, Ju. P.

Three-valued parametron logic in a Post algebra. (Ukrainian. Russian and English summaries) *Avtomatika* 1965, *no.* 2, 45-53. (A. P. Ershov) 32 #5461

Topological synthesis of ternary logical circuits using tri-stable parametrons which realize basic operators in a Post algebra. *Avtomatika* 1970, *no.* 5, 67-76 *(Ukarainan); translated as Soviet Automat. Control* 3 (1970), *no.* 5, 51-58 (1971). (B. Hazeltine) 44 #8059

Sobotka, Zdeněk

Some problems of non-linear rheology. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962*), pp.* 362-390. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (M. E. Gurtin) 29 #811

Sobral, Mañoel, Jr.

Linear control laws for singular linear systems. *J. Franklin Inst.* 278 (1964), 313-326. (R. E. Kalman) 30 #4629

(with Rohrer, R. A.) Sensitivity considerations in optimal system design. *IEEE Trans. Automatic Control* AC-10 (1965), 43-48. (R. Tomovic) 31 #4662

de Sobrino, L. G.

(with Jankulak, F. J.; Tam, Y. K. S.) A solution of the Fokker-Planck equation for homogeneous plasmas. *Canad. J. Phys.* 42 (1964), 1743-1750. (A. Lenard) 31 #1073

(with Haggerty, M. J.) Kinetic equation for a homogeneous plasma in a uniform magnetic field. *Canad. J. Phys.* 42 (1964), 1969-2021. (R. Balescu) 31 #3164

On the transport properties of a Van der Waals gas near the critical point. *Canad. J. Phys.* 46 (1968), 2821-2841. (S. Harris) 43 #4403

Sočalov, Ju. A.

(with Buharaev, R. G.) Sets of processions of characteristic numbers of stochastic matrices of a semisimple structure. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 3-14. (N. Sokolov (RŽMat 1969 #5 A307)) 44 #2775

Sochor, Antonín

On the linearity of mappings of E_m into E_m. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 87 (1962), 290-295. (Author's summary) 31 #4801 (with Jech, T.) On θ-model of the set theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 297-303. (J. E. Rubin) 34 #2441

(with Jech, T.) Applications of the Θ-model. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 351-355. (James D. Halpern) 37 #3918

Der Π-Prozess. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 145-147, 227. (E. Engeler) 38 #996

(with Balcar, Bohuslav) The general theory of semisets. Syntactic models of the set theory. *Aspects of Math. Logic (C.I.M.E., Varenna,* 1968*), pp.* 267-285. *Edizioni Cremonese, Rome,* 1969. (From the authors' introduction) 41 #50

Sočilina, A. S.

The influence of the distribution of observations on the accuracy of the determination of elements of almost circular planetary orbits. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 12, *no.* 6 (139), 485-493 (1970). (J. S. Shipman) 44 #6303

de Socio, Marialuisa

Su una proprietà della propagazione in un gas ionizzato. *Boll. Un. Mat. Ital.* (3) 19 (1964), 343-350. (D. Graffi) 30 #1718

Sočivko, V. P.

Pattern recognition by means of computing machines. (Russian) *Theory of Probability, Math. Statist., Theoret. Cybernet.* 1964 *(Russian), pp.* 55-99. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. (J. Dénes) 36 #1232

Sockel, H.

Kompressible Strömung in feststehenden und rotierenden Schaufelkanälen von Axialrädern. *Österreich. Ing.-Arch.* 18 (1964/65), 46-73. (L. J. Crane) 30 #1699

Singuläre Lösungen der instationären, linearisierten, gasdynamischen Gleichung. (English and Russian summaries) *Z. Angew. Math. Mech.* 51 (1971), 371-376. (M. Sichel) 44 #7832

Sočnev, A. Ja.

On the question of approximation of ultraelliptic and elliptic integrals. (Russian) *Certain Problems of Applied Mathematics, No.* 3 *(Russian), pp.* 276-283. *Izdat. "Naukova Dumka", Kiev,* 1967. 39 #3683

Approximation of ultraelliptic and elliptic integrals without expansion of the integrals in infinite series. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 514-521. (S. Fempl) 37 #6491

Sočneva, V. A.

(with Fridlender, V. R.) Hypoelliptic equations in two variables. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No. I (Russian), pp.* 99-104. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. (G. C. Barozzi) 34 #6319

The Cauchy problem for systems of linear partial differential equations with variable coefficients. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1520-1530. (P. Szeptycki) 34 #3082

Solution of general linear systems of partial differential equations over Gevrey spaces. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 41-44. (M. Zerner) 32 #7916

(with Fridlender, V. R.) Gevrey solutions of partial differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 1 (50), 139-146. (L. Arkeryd) 34 #468

The concept of a Kowalewska system. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol.* 3: *Differential and Integral Equations (Russian), pp.* 198-203. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (A. Friedman) 40 #7611

Solutions of general linear systems of partial differential equations, analytic with respect to one variable. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 2 (57), 67-73. (G. C. Barozzi) 35 #600

(with Fridlender, V. R.) The Cauchy problem for multidimensional linear systems over Gevrey spaces. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 264-292. (E. Gerlach) 40 #6049

Socolow, Robert H.

Departures from the eightfold way. III. Pseudoscalar-meson electromagnetic masses. *Phys. Rev.* (2) 137 (1965), B1221-B1228. (S. N. Biswas) 32 #8830

Soda, Dominic

Some groups of type D_4 defined by Jordan algebras. *J. Reine Angew. Math.* 223 (1966), 150-163. (F. D. Veldkamp) 34 #1370

On a theorem of Manning. *Math. Z.* 94 (1966), 326-327. (F. C. Piper) 34 #2674

Soda, Toshio

Some dynamical properties of an impurity in the hard-sphere Bose gas. *J. Mathematical Phys.* 5 (1964), 769-774. (K. Nishijima) 29 #1006

(with Kaufman, Allan N.) Statistical theory of magnetic susceptibility of an imperfect gas. *Phys. Rev.* (2) 136 (1964), A1614-A1625. (A. Lenard) 31 #3144

Šoda, Zenon. See Szoda, Zenon.

Söderholm, Lars

A principle of objectivity for relativistic continuum mechanics. *Arch. Rational Mech. Anal.* 39 (1970), 89-107. (C. W. Kilmister) 44 #2475

Sodha, Mahendra Singh

(with Palumbo, Carl James) Modulation of electromagnetic waves by acoustic waves in a plasma. *Canad. J. Phys.* 42 (1964), 1635-1642. (Authors' summary) 30 #5691

Sodnomov, B. S.

On a property of sets of positive measure. *Fund. Math.* 60 (1967), 187-190. (J. Mycielski) 35 #62

Soeda, Takashi

(with Umeda, Kenji) On the expected norm stability of a linear (time-variant) stochastic system. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 520-528. (Authors' summary) 42 #3377

van Soest, J.

Some goodness of fit tests for exponential distributions. *Statistica Neerlandica* 23 (1969), 41-51. (A. D. McLaren) 42 #8633

Soetens, Edward

Convexity in Busemann spaces. *Bull. Soc. Math. Belg.* 19 (1967), 194-213. (E. M. Zaustinsky) 37 #3493

Soffer, J.

(with Ida, M.) General level structure in the dual-resonance model. (Italian and Russian summaries) *Nuovo Cimento A* (11) 3 (1971), 355-364. (J. E. Marsden) 44 #1353

Sofia Roma, Maria. See Roma, Maria Sofia.

Sofman, L. B.

Diameters of octahedra. (Russian) *Mat. Zametki* 5 (1969), 429-436. (G. Albinus) 40 #3283

Sofronov, E. T.

A sufficient condition for the stability of the zero-solution of a system of differential equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1312-1316. (M. Reghiş) 35 #485

Sofronov, I. D.

On the sweep method for solving difference boundary-value problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 256-266. (T. I. Seidman) 29 #1746

A difference scheme with diagonally directed sweeps for the solution of the equation of heat conduction. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 347-350. (E. L. Albasiny) 33 #3476

Soglio, Letizia Dal. See Dal Soglio, Letizia.

Sogno, J. C.

(with Kalfon, P.; Ribière, G.) A method of feasible directions using projection operators. *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol.* 1: *Mathematics, Software, pp.* 245-248. *North-Holland, Amsterdam,* 1969. (Authors' summary) 41 #4791

Sogomonova, G. A.

The integral representation of a sequence of generalized Appell polynomials of class $A^{(2)}$. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 191-201. (Editors) 39 #1705

Generating functions of a sequence of extremal polynomials of class $\text{Ш}_{n,r}^{(\lambda,2)}$. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 202-207. 39 #1706

Integral representation of a sequence of generalized Appell polynomials of class $A^{(k)}$ by means of hypergeometric functions. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 192 (1966), 98-103. (A. Peyerimhoff) 36 #4033

Certain properties of an extremal sequence of regularly monotone polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 1014-1016. (Bl. Sendov) 36 #580

Some extremal problems for cyclically monotone polynomials. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 303-314. (Bl. Sendov) 36 #6854

A certain method of obtaining asymptotic formulae for an extremal sequence of regularly monotone polynomials. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 255-258. (H. Weber) 41 #5854

Sohin, A. S.

A certain limiting case of the Dirichlet problem for the biharmonic operator. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 9 (1969), 21-49. (M. A. Atahodžaev) 42 #7928

Sohr, H.

Über die Existenz der Schwingerschen Funktionale in der Quantenmechanik. *Z. Naturforsch.* 25a (1970), 804-815. (R. C. Gilbert) 42 #3624

Sohranskaja, V. S.

(with Makrenko, I. P.; Šahbazjan, K. V.) On ПРОРАБ, a computing program. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 1134-1137. (F. D. Faulkner) 30 #1632

Soĭbel'man, O. I.

(with Gohberg, I. C.) Some remarks on similarity of operators. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 3, 166-170. (J. Rovnyak) 37 #3387

On similarities of operators. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 150-165 (1968). (A. Sobczyk) 39 #2009

Similarity of triangular operators to diagonal ones. *Bul. Akad. Štiince RSS Moldoven.* 1968, *no.* 1, 88. (J. Rovnyak) 37 #4662

Weak perturbations of operators. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 123-137. (K. Veselić) 41 #9046

Perturbations of diagonal operators. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 1 (19), 126-145. (B. V. Loginov) 44 #2079

Soĭfer, A. Ju.

Abelian groups that have irreducible systems of generators. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 648-658. (L. Fuchs) 44 #6830

Šoĭhet, B. A.

(with Petrosjan, L. A.) A set-theoretic approach to pursuit games. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 371-380. (J. R. Isbell) 39 #2478

Šoĭhet, L. A.

Application of impulse methods to the approximate analysis of a differential equation with a delayed argument. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 608-611. (E. Leimanis) 33 #1564

Soĭkis, L. R.

The special loops. (Russian) *Questions of the theory of Quasigroups and Loops (Russian), pp.* 122-131. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (L. Procházka) 43 #7542

Šoinbekov, K. D.

On the analytic form of solutions of linear systems of differential equations with quasi-periodic coefficients. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 69-71. (L. Pintér) 30 #3263

The integration of a certain system of partial differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 57-61. (L. E. Bobisud) 41 #2237

Šoĭnžurov, C. B.

Certain questions of the theory of cubature formula in the space $W_2^{(m)}$. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 433-446. (A. H. Stroud) 35 #2487

Šokamolov, I.

Interpolated quadrature formulae for certain Cauchy type integrals and their principal values. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 4, 53-60. (E. Gerlach) 44 #1220

(with Pyhteev, G. N.) Interpolational quadrature formulae containing derivatives, for certain Cauchy type integrals and theor principal values. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 438-444. (T. G. Geglia) 44 #3493

Šokin, Ju. I.

(with Janenko, N. N.) The approximational viscosity of difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 280-281. (J. S. Shipman) 38 #5408

(with Janenko, N. N.) The correctness of the first differential approximations of difference schemes. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 776-778. (J. Kopáček) 39 #1138

(with Janenko, N. N.) The connection between the proper formulation of first differential approximations and the stability of difference schemes for hyperbolic systems of equations. (Russian) *Mat. Zametki* 4 (1968), 493-502. (I. O. Bohachevsky) 39 #1137

The asymptotic behavior of the solutions of difference schemes. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1969, *no.* 3, 65-68. (I. O. Bohachevsky) 41 #2949

(with Janenko, N. N.) The first differential approximation of difference schemes for hyperbolic systems of equations. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1173-1187. (G. W. Hedstrom) 40 #8287

The connection of the stability of difference schemes with the parabolicity of their first differential approximations for hyperbolic systems of equations. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1970, *no.* 8, 81-85. (K.-H. Hauer) 44 #4928

(with Janenko, N. N.) On the group classification of difference schemes for systems of equations in gas dynamics. *Proc. Second Internat. Conf. on Numerical Methods in Fluid Dynamics (Univ. California, Berkeley, Calif.,* 1970*), pp.* 3-17. *Springer, Berlin,* 1971. (From the authors' introduction) 43 #4288

Soklov, N. P. See Sokolov, M. P.

Sokolik, G. A.

A spinor formula for the gravitational field. *Dokl. Akad. Nauk SSSR* 154 (1964), 565-566 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 73-74. (L. Witten) 32 #2170

(with Iosif'jan, A. G.; Stanjukovič, K. P.) Analysis of quasi-Maxwellian equations governing compensating fields. *Dokl. Akad. Nauk SSSR* 159 (1964), 1261-1263 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 1108-1109. (E. J. Post) 32 #8977

Unified description of spinors and model of elementary particles. *Nuclear Phys.* 50 (1964), 171-176. (H. Umezawa) 29 #6840

* Групповые методы в теории элементарных частиц. (Russian) [Group methods in the theory of elementary particles] *Atomizdat, Moscow,* 1965. 176 *pp.* (P. Roman) 32 #3653

(with Konopleva, N. P.) Unified description of interactions. *Nuclear Phys.* 72 (1972), 1965), 667-676. (J. L. Anderson) 35 #4008

A general form for the equations of wave fields that are invariant with respect to inhomogeneous groups, and their transformational properties. (Russian) *Gravitation and the Theory of Relativity, No.* 4-5 *(Russian), pp.* 89-100. *Izdat. Kazan. Univ., Kazan,* 1968. (N. Konopleva (RŽFiz 1969 #7 B121)) 44 #2433

Sokolnikoff, Ivan S.

* (with Redheffer, R. M.) Mathematics of physics and modern engineering. Second edition. *McGraw-Hill Book Co., New York-Toronto, Ont.,-London,* 1966. xi + 752 *pp.* (R. V. Churchill) 35 #2523

Sokoloff, G. D. See Sokolov, Ju. D.

Sokolov, A. A.

(See Green, H. S., 39 #3759)

Sokolov, B. M.

A gradient algorithm for instructing a recognition system. (Russian) *Metody Vyčisl.* 4 (1967), 137-143. (A. Rapoport) 37 #2554

(with Solov'ev, G. G.) A certain algorithm for the solution of matrix games. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 7, 153-155. (M. Iosifescu) 40 #5270

Sokolov, D. D.

The imbedding of pseudo-riemannian manifolds in pseudo-euclidean spaces. (Russian) *Mat. Zametki* 9 (1971), 193-198. (C. S. Weaver) 44 #3260

Sokolov, E. I.

(with Bolotin, A. S.) Regularizing factor of constant index. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 79-84. (P. Caraman) 35 #5636

Investigation of a singular integral in a complex domain. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 70 (1964), 24-26. (J. F. Heyda) 32 #1336

Certain properties of n-operatives. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 91 (1967), 15-29. (V. Dlab) 42 #6145

Homomorphisms of n-quasigroups. (Russian) *Studies in General Algebra, No.* 1 *(Russian), pp.* 54-70. *Kišinev. Gos. Univ., Kishinev,* 1968. (B. M. Schein (Šaĭn) 40 #7379

The reducibility of (i,j)-associative n-quasigroups. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1969, *no.* 3, 10-18. (L. Fuchs) 43 #3376

(with Sandik, M. D.) Inversion matrices and totally symmetric n-quasigroups. (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 115-122. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (G. Čupona) 43 #3381

(with Belioglo, A. I.) The commutativity properties of m-associative n-quasigroups. (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 139-145. *Redakc.-Kzdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (G. Čupona) 43 #3382

Sokolov, E. T.

(with Sandik, M. D.) Totally symmetric n-quasigroups. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 2 (8), 170-182. (H. Pflugfelder) 40 #7378; erratum, 41, p. 1965

Sokolov, G. A.

(with Gorohov, Ju. P.) The compilation of a graph for carrying out precautionary work in a queueing system. (Russian) *Digital Computer Technology and Programming, No.* 5 *(Russian), pp.* 184-192. *Izdat. "Sovetskoe Radio", Moscow,* 1969. 42 #6961

Sokolov, G. T.

Periodic solutions of the wave equation. (Russian) *Fergan. Gos. Ped. Inst. Učen. Zap. Ser. Mat. Vyp.* 1 (1965), 17-25. (P. Ungar) 33 #4468

Sokolov, I. A.

The Riemann type boundary value problem for polyanalytic functions on the circle. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 5, 64-71. (S. Gogonea) 43 #5042

The second Riemann type boundary value problem for polyanalytic functions for a circumference. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 879-882. (V. Mićić) 44 #448

Sokolov, I. G.

Strengthening of an inequality of P. L. Čebyšev. (Ukrainian) *Teoret. Prikl. Mat. Vip.* 2 (1963), 19-21. (George Biriuk) 33 #2777

On reverse theorems for certain approximation processes. (Ukrainian) *Teoret. Prikl. Mat. Vip.* 2 (1963), 15-18. (J. Albrycht) 33 #6464

(with Gukevič, V. I.) A generalization of a certain theorem of F. Riesz. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 7 (1968), 3-5. (D. P. Gupta) 41 #7365

Sokolov, Ju. D.

On sufficient tests for the convergence of the method of averaging of functional corrections. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 3, 91-103. (B. Kellogg) 33 #1770

(See also History of national mathematics in four volumes. Vol. I. From oldest times to the end of the 18th century, 35 #4068; Mitropol's'kiĭ, Ju. O.; Ševelo, V. M.; Lučka, A. Ju.; Kurpel', M. S., 33 #3875; History of national mathematics in four volumes. Vol. II. 1801-1917, 37 #3888 and History of national mathematics in four volumes. Vol. 3: 1917-1967, 38 #5566)

* Метод осреднения функциональных поправок. (Russian) [The method of averaging of functional corrections] (English summary) *Izdat. "Naukova Dumka", Kiev,* 1967. 336 *pp.* (E. L. Albasiny) 35 #3931

(with Erugin, N. P.; Feščenko, S. F.; Likova, O. B.) Juriĭ Alekseevič Mitropol'skiĭ. (Russian) *Differencial'nye Uravnenija* 3 (1967), 158-166. (Editors) 34 #5632

The behavior at infinity of the solutions of the differential equations of rectilinear motion in the generalized three body problem. (Russian) *Proc. Sem. Differential and Integral Equations, No. I (Russian), pp.* 5-69. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (C. Avramescu) 42 #8013

(with Vel'min, V. P.; Mitropol's'kiĭ, Ju. O.; Černikov, S. M.) Nikolaĭ Petrovič Sokolov (on his eightieth birthday). (Russian) *Ukrain. Mat. Ž.* 22 (1970), 657-659. (Editors) 42 #4372

Sokolov, M. P.

Projective classification of bundles of ternary cubic forms with positive characteristic. (Russian. French summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 13 (1963), 241-259. (L. Mirsky) 32 #2966

Higher-dimensional determinants reducing to an ordinary Vandermonde determinant or some power of it. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 834-836. (H. Schwerdtfeger) 30 #108

Operations on multidimensioanl matrices. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 1322-1325. (L. Mirsky) 33 #2649

Operations on multidimensional matrices. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 5, 67-79. (L. Mirsky) 34 #4281

Multiplicative and spectral properties of spatial matrices with nonnegative elements. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 72-78. (L. Mirsky) 34 #181

Quasispectral properties of p-dimensional matrices ($p \geq 2$). (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 4, 67-79. (D. Ž. Djoković) 36 #196

(See also Vel'min, V. P.; Mitropol's'kiĭ, Ju. O.; Sokolov, Ju. D.; Černikov, S. M., 42 #4372)

Functions of multidimensional matrices and their application to the solution of linear systems of partial differential equations. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 762-782. (G. C. Barozzi) 43 #6573

Sokolov, O. B.

The application of Boolean determinants to the analysis of logical multipoles. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 109-111. *Izdat. Kazan. Univ., Kazan,* 1963. (R. Sikorski) 32 #5565

Application of Boolean determinants to the analysis of logical switching circuits. *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 6, 155-163. (J. Kuntzmann) 33 #7207

(with Enikeev, I. I.) A generalization of Reed-Müller codes. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 2, 112-129. (S. Kotz) 33 #7197

(with Enikeev, I. I.) A representation of the Reed-Müller code as a characteristic code. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 127 (1967), *kn.* 3, 62-73. (Authors' summary) 44 #3760

Sokolov, P. V.

A geometric picture of the integral surfaces near a singular integral element of a first order partial differential equation. (Russian) *Differencial'nye Uravnenija* 7 (1971), 2225-2233. (R. N. Goss) 44 #7102

Sokolov, R. A.

The stability of the solutions of a certain class of systems of nonlinear differential equations. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1534-1535. (R. F. Datko) 38 #1352

Sokolov, S. N.

Continuous design of regression experiments. II. (Russian) *Teor. Verojatnost. i Primenen.* 8 (1963), 318-324. (G. E. Noether) 32 #3232

(with Zakhariev, B. N.) On virtual excitations of a compound particle. *Ann. Physik* (7) 15 (1965), 183-191. (L. M. Delves) 31 #5519

Sokolov, V. A.

Isomorphisms of maximal subalgebras of R. Robinson's algebra. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 3, 91-99. (A. H. Lachlan) 36 #4989

Sokolov, V. G.

The Frattini subgroup. (Russian) *Algebra i Logika* 7 (1968), *no.* 2, 85-93. (I. M. S. Dey) 39 #1559

An analogue of Witt's formula for free solvable groups. (Russian) *Algebra i Logika* 8 (1969), 367-372. (I. M. S. Dey) 41 #1888

Sokolova, Ju. G.

Hermitian noneuclidean and quasieuclidean Galois spaces. (Russian) *Tul. Gos. Ped. Inst. Učen. Zap. Mat. Kaf.* 1968, 109-114. (J. Cofman) 44 #912

Symplectic and quasisymplectic Galois spaces. (Russian) *Mat. Zametki* 6 (1969), 119-123. (J. Cofman) 40 #6354

Projective Galois spaces. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 173, 57-66 (1967). (J. Cofman) 41 #9099

Noneuclidean and quasieuclidean Galois spaces. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 173, 67-82 (1967). (J. Cofman) 41 #9100

Sokolova, L. A.

Certain properties of homotopic mappings of quasigroups. (Russian) *Studies in General Algebra., No. 1 (Russian), pp.* 71-73. *Kišinev. Gos. Univ. Kishinev,* 1968. (R. E. Peinado) 41 #5535

Sokolová, Libuše

Linear multi-parametric programming problem. (Czech. English summary) *Ekonom.-Mat. Obzor* 4 (1968), 44-68. (B. Bereanu) 38 #3036

Sokolovskaja, T. V.

Multioperation groups as universal algebras with a single operation subordinate to a single identity. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 853-858. (S. P. Bandyopadhyay) 36 #98

(See also Halmos, Paul R., 42 #3586)

Representations of finite universal algebras in finite semigroups. (Russian) *Mat. Zametki* 9 (1971), 285-290. (M. Kolibiar) 44 #1620

Sokolovskiĭ, A. V.

On the zeros of the Dedekind zeta-function. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 1, 40-50. (E. Fogels) 33 #5578

Density theorems for a class of zeta functions. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 3, 33-40. (H.-E. Richert) 33 #7311

A theorem on the zeros of Dedekind's zeta-function and the distance between "neighboring" prime ideals. (Russian) *Acta Arith.* 13 (1967/68), 321-334. (W. Schwarz) 36 #6380

The distance between "neighboring" simple ideals. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 1273-1275. (H.-E. Richert) 34 #5772

(with Karšiev, A. K.) Generalized problem of Titchmarsh divisors. (Russian) *Mat. Zametki* 3 (1968), 187-194. (R. A. Rankin) 38 #5734

Small difference between "neighboring" prime ideals. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 53-56. (H.-E. Richert) 44 #175

Sokolovskiĭ, T. D.

Calculation of eigenvalues of a Hermitian matrix. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 1, 50-52. (A. S. Householder) 34 #3771

Sokolovskiĭ, V. V.

* Statics of granular media. Completely revised and enlarged edition. Translated by J. K. Lusher; English translation edited by A. W. T. Daniel. *Pergamon Press, Oxford-Edinburgh-New York,* 1965. xiv + 270 *pp.* (W. Prager) 31 #4268

Sokolovskij, V. V. See Sokolovskiĭ, V. V.

Sokolovsky, W. W. See Sokolovskiĭ, V. V.

Sokolovsky, Wadim. See Sokolovskiĭ, V. V.

Sokolow, A. See Sokolov, A. A.

Sokolow, M. P. See Sokolov, M. P.

Sokolow, N. P. See Sokolov, M. P.

Sokolowsky, W. W. See Sokolovskiĭ, V. V.

Šokuev, V. N.

A class of metacyclic groups. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. No.* 19 (1963), 297-298. (R. Kochendörffer) 32 #1249

The problem of the number of subgroups in finite p-groups. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. No.* 19 (1963), 299-300. (E. Schenkman) 32 #1256

Generalizations of Hall's enumeration principle. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 124-143 (1967). (R. E. Peinado) 36 #2701

The quasi-invariant subgroups of finite groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 1, 135-147. (M. Herzog) 44 #1723

Sokur, L. P.

T-, *P*-invariant equations in a five-dimensional Minkowski space. (Russian. English summary) *Ukrain. Fiz. Ž.* 16 (1971), 574-578. (H. S. Green) 44 #2434

Solak, Wiesław W.

On the integrals of furcation of an ordinary differential equation. *Zeszyty Nauk. Univ. Jagiello. Prace Mat. Zeszyt* 13 (1969), 79-84. (James S. Muldowney) 40 #4513

Soland, Richard M.

Optimal multivariate stratified sampling with prior information. *Skand. Aktuarietidskr.* 1967, 31-39. (I. Guttman) 36 #7288

Solari, L.

Modèles et décisions économiques. Sur les fondements de l'économie pure. *Publ. Inst. Statist. Univ. Paris* 11 (1962), 277-505 (1963). 37 #7161

Solarz, Lech

(with Kaliski, S.) On a feature of the phenomenon of aeromagnetic flutter of a plate in magnetic field normal to its surface. (Polish and Russian summaries) *Proc. Vibration Problems* 5 (1964), 125-135. (H. Saunders) 32 #6768

Soldán, Josef

(with Křemen, Jaromír) Criterion of the correctness of an analogue model of a system of differential and algebraic equations. (Czech summary) *Kybernetika (Prague)* 6 (1970), 37-58. (J. R. Cannon) 42 #7105

Soldate, A. M.

(with Aggarwal, H. R.; Hook, J. F.; Miklowitz, Julius) Bilinear theories in plasticity and an application to two-dimensional wave propagation. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 181-188. (P. Chadwick) 30 #3629

Soldatenkov, T. R.

(with Sidorov, V. P.) Plasma entrainment by a rotating electromagnetic field. *Ž. Tehn. Fiz.* 35 (1965), 1749-1754 *(Russian); translated as Soviet Physics Tech. Phys.* 10 (1966), 1354-1357. (V. H. Weston) 33 #3596

Soldatov, G. P.

The influence of counter-pressure on a motion which has been produced in an inhomogeneous atmosphere by a short-term plane shock. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 8 (75), 88-95. (S. Raman) 39 #3751

Soldatov, M. A.

(with Ageičeva, N. A.) The completeness of certain systems of polynomials that are a generalization of Faber polynomials. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 52-56. (W. H. J. Fuchs) 41 #7121

Properties of solutions of linear differential-difference equations. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 669-679. (R. F. Datko) 36 #487

Certain solutions of linear inhomogeneous differential-difference equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 12 (91), 83-92. (A. Elbert) 42 #2134

Soldatov, V. E.

On a problem of linear programming with random restrictions. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 705-710. (R. Theodorescu) 32 #2196

Some problems of stochastic programming. (Russian) *Mathematical Programming (Russian), pp.* 78-89. *Izdat. "Nauka", Moscow,* 1966. (R. Theodorescu) 35 #6453

Soldatova, V. V.

Groups with δ-basis, for $\delta < 1/4$, and one additional condition. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 627-637. (P. M. Cohn) 33 #4126

On a class of finitely presented groups. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 1276-1277. (K. A. Hirsch) 36 #6486

Sole, S. Miracle. See Miracle-Sole, S.

Solecki, Roman

(with Guo, Zhong-Heng) Free and forced finite-amplitude oscillations of an elastic thick-walled hollow sphere made of incompressible material. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 427-433. (J. K. Knowles) 29 #796

Solem, Richard R.

Eine Mittelwertmethode zur Anpassung einer Funktion an Beobachtungspunkte. *Norske Vid. Selsk. Forh. (Trondheim)* 39 (1966), 89-95. (R. Nicolovius) 34 #8617

Soler, A. I.

(with Brull, M. A.) On the solution to transient coupled thermoelastic problems by perturbation techniques. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 389-399. (B. A. Boley) 32 #4961

(with Brull, M. A.) A new perturbation technique for differential equations with small parameters. *Quart. Appl. Math.* 24 (1966), 143-151. (R. C. Gilbert) 34 #7905

Soler, M.

(with Morales, A.; Nuñez-Lagos, R.) CP violation and SU_3 symmetry. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1607-1615. (B. d'Espagnat) 33 #2236

Solev, V. N.

(with Ibragimov, I. A.) Asymptotic behavior of the predictio error of a stationary sequence with a spectral density of special form. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 746-751. (Authors' summary) 39 #3575

The asymptotics of the prediction error in the multidimension case. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 43-46. (G. K. Eagleson) 39 #4986

(with Ibragimov, I. A.) A condition for the regularity of a Gaussian stationary process. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 509-512. (Harry I. Cohn) 39 #3576

(with Ibragimov, I. A.) A certain condition for the regularity of Gaussian stationary sequence. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 113-125. (H. Körezlioğlu) 42 #2541

A certain condition for linear regularity of a stationary vector sequence. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 126-145. (G. K. Eagleson) 41 #2759

The asymptotic behavior of a prediction error in the multidimensional case. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 146-156. (S. Kullback) 40 #5018

Solfrian, W. Meier. See Meier-Solfrian, W.

Solian, Alexandru

Semi-topology of transformation groups. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 195-203. (Author's summary) 31 #1323

Le treillis des relations d'équivalence dans un ensemble et le treillis des sous-groupes d'un groupe de transformations du même ensemble. *Bull. Math. Soc. Sci. Math. Phys. R.P. Roumaine (N.S.)* 7(55) (1963), 51-59. (O. Ore) 32 #5750

A canonical decomposition of additive functors of modules. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 129-135. (A. Dold) 30 #1163

Foncteurs qui conservent les épimorphismes locaux. *C. R. Acad. Sci. Paris* 259 (1964), 1376-1379. (A. J. Douglas) 30 #1164

Théorie des transi-groupes. I. Relations d'équivalence et sous groupes associés. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 211-228. (O. Ore) 31 #2189

Théorie des transi-groupes. II. Définitions fondamentales et théorèmes d'isomorphisme. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 677-695. (O. Ore) 32 #1270a

Théorie des transi-groupes. III. Produit direct, produit libre, holomorphe. *Rev. Roumaine Math. Pures. Appl.* 9 (1964), 949-969. (O. Ore) 32 #1270b

Theory of transi-groups. I: Equivalence relations and associated subgroups. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 1111-1127. (Editors) 34 #7628

On the extension of transi-groups. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 30-36. (H.-J. Hoehnke) 30 #3172

Théorie des transi-groupes. IV. Transi-groupe et groupe. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 459-469. (O. Ore) 33 #4174

Faisceaux sur un groupe abélien. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A754-A757. (R. P. Hunter) 36 #245

Characterization of some functors of modules. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 283-285. (R. L. Knighten) 34 #1376

Foncteurs qui transforment les épimorphismes locaux en monomorphismes locaux. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 401-410. (F. E. J. Linton) 34 #2665

Continuity of mappings and normality of subgroups. *Math. Nachr.* 33 (1967), 313-314. (K. Strambach) 35 #7308

Groups of sections. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 563-569. (J. D. Tarwater) 38 #2210

Faisceaux sur un groupe abélien. I: Catégorie des sous-ensembles additifs et préfaisceau des sections. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 71-79. (J. Rotman) 40 #1471a

Faisceaux sur un groupe abélien. II: Caractérisation des faisceaux. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 81-92. (J. Rotman) 40 #1471b

Faisceaux sur un groupe abélien. III: Application à la théorie des extensions des groupes. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 93-104. (J. Rotman) 40 #1471c

Solianik, A. I. See Soljanik, A. I.

oliman, Ahmed M.

Richards' theorem for positive real matrices of several variables. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 773-779. *Univ. of Illinois, Urbana, Ill.,* 1969. (Author's summary) 41 #9613

(with Bose, N. K.) Synthesis of a class of multivariable positive real functions using Bott-Duffin technique. *IEEE Trans. Circuit Theory* CT-18 (1971), 288-290. (Authors' summary) 42 #9088

oliman, M. A.

(with Ray, W. H.) The optimal control of processes containing pure time delays. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga.,* 1970*), pp.* 476-484. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8107

olimeno, S.

(with Di Porto, P.; Crosignani, B.) Quantum harmonic oscillator with time-dependent frequency. *J. Mathematical Phys.* 10 (1969), 1922-1931. (Authors' summary) 40 #1099

olitar, Donald

* (with Magnus, Wilhelm; Karrass, Abraham) Combinatorial group theory: Presentations of groups in terms of generators and relations. Pure and Applied Mathematics, Vol. XIII. *Interscience Publishers [John Wiley & Sons, Inc], New York-London-Sydney,* 1966. xii + 444 *pp.* (Graham Higman) 34 #7617

(See also Siegel, C. L., 41 #1977)

(with Karrass, Abraham) On the failure of the Howson property for a group with a single defining relation. *Math. Z.* 108 (1969), 235-236. (D. E. Cohen) 39 #292

(with Karrass, Abraham) On finitely generated subgroups of a free product. *Math. Z.* 108 (1969), 285-287. (Tekla Lewin) 39 #6960

(with Karrass, A.) On finitely generated subgroups of a free group. *Proc. Amer. Math. Soc.* 22 (1969), 209-213. (Tekla Lewin) 39 #6961

(with Karrass, A.) On groups with one defining relation having an abelian normal subgroup. *Proc. Amer. Math. Soc.* 23 (1969), 5-10. (S. A. Meskin) 39 #6962

(with Baumslag, G.; Karrass, A.) Torsion-free groups and amalgamented products. *Proc. Amer. Math. Soc.* 24 (1970), 688-690. (S. E. Stonehewer) 41 #5496

(with Karrass, A.) On the free product of two groups with an amalgameted subgroup of finite index in each factor. *Proc. Amer. Math. Soc.* 26 (1970), 28-32. (Stephen Meskin) 41 #8527

(with Karrass, A.) The subgroups of a free product of two groups with an amalgameted subgroup. *Trans. Amer. Math. Soc.* 150 (1970), 227-255. (Hanna Neumann) 41 #5499

(with Hoare, A. Howard M.; Karrass, Abraham) Subgroups of finite index of Fuchsian groups. *Math. Z.* 120 (1971), 289-298. (C. Earle) 44 #2837

oljanik, A. I.

(with Černous'ko, F. L.) Optimizing the tracking process under random perturbations. *Prikl. Mat. Meh.* 33 (1969), 720-729 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 696-705 (1970). (From the authors' introduction) 43 #1693

e Solla Price, Derek J. See Price, Derek J. de Solla.

ollfrey, William

On a Bessel function integral. *SIAM Rev.* 9 (1967), 586-589. (A. Erdélyi) 36 #1081

Note on sums of squares of consecutive odd integers. *Math. Mag.* 41 (1968), 255-258. (F. Herzog) 39 #4082

Inverse functions of the products of two Bessel functions. *J. Mathematical Phys.* 10 (1969), 1429-1430. (Editors) 41 #7383

oln, J.

The closed normal form of the *S*-matrix in quantum electrodynamics with an external electromagnetic field. *Nuovo Cimento* (10) 32 (1964), 1301-1305. (J. M. Charap) 31 #1944

Note on the variation of the coupling constant in quantum field theory. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 122-132. (A. H. Klotz) 33 #7009

olncev, Ju. K.

Properties of difference forms for several functions and their application to the evaluation of mixed derivatives. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962*) (Russian), pp.* 533-536. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (J. Peetre) 33 #4663

Solnceva, T. V.

Application of nets of conic sections to the formation of certain many-valued correspondence between points of two planes. (Russian) *Trudy I i II Respubl. Konferenciĭ Matematikov Vys. Učebn. Zaved. Gruzinsk. SSR, pp.* 65-66. *Izdat. "Codna", Tbilisi,* 1964. (O.-H. Keller) 31 #3909

A purely synthetic theory of a (2,1)-valued correspondence between two unicursal forms. (Russian) *Moskov. Oblast. Ped. Inst. Učebn. Zap.* 149, 201-213 (1964). 33 #1805

On the question of establishing a correspondence between many-valued correspondence in forms of the first and forms of the second genus. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 149, 215-220 (1964). (T. Huskowski) 33 #616

(with Anisimova, E. P.) Certain questions on the synthetic theory of four-dimensional space. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 42 (1967), 3-21. (E. J. F. Primrose) 37 #4703

A certain geometrical problem. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 9 (1968), 72-76. (J. Kateřinák) 42 #8387

Solnečnyĭ, Ê. M.

The intersection of subspaces augmented by one dimension, and the intersection of linear varieties. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969*, no.* 11 (90), 87-93. (E. Leimanis) 43 #2320

Points of stationarity of functionals of the type of the action integral of a conservative system. (Russian) *Izv. Vysš. Učebn. Zaved. Mathematika* 1971*, no.* 2 (105), 96-101. (B. Dolapčiev) 44 #3545

Solntzev, G. See Solncev, Ju. K.

Solodka, V. É.

(with Martinjuk, D. Ī.) The Floquet-Ljapunov theory for system of linear multidimensional equations. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1970*, no.* 12, 74-75. (Editors) 44 #557

Solodov, A. V.

* Линейные системы автоматического управления с переменными параметрами. (Russian) [Linear automatic control systems with variable parameters] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1962. 324 *pp.* (H. Dittmann (Zbl 101, 307)) 32 #5411

* Теория информации и ее применение к задачам автоматического управления и контроля. (Russian) [Information theory and its application to automatic management and control problems] *Izdat. "Nauka", Moscow,* 1967. 432 *pp.* (R. See) 38 #5518

Solodov, V. M.

Integration over certain regions which are different from the unit cube. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1334-1341. (J. B. Butler, Jr.) 39 #3704

An application of the method of optimal coefficients to numerical integration. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 14-29. (E. M. Bruins) 40 #3721

Solodovnikov, A. S.

Spaces with common geodesics. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 11 (1961), 43-102. (A. Goetz) 29 #560

Models of elliptic spaces. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 11 (1961), 293-308. (H. Salzmann) 32 #6348

(with Sirota, A. I.) Centers of real simple Lie groups and kernels of their homomorphisms. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 244-246. *Izdat. "Nauka", Leningrad,* 1964. (C. Teleman) 37 #1521

(See also Hadwiger, H., 34 #6638)

* Введение в линейную алгебру и линейное программирование. (Russian) [Introduction to linear algebra and linear programming] *Izdat. "Prosveščenie", Moscow,* 1966. 124 *pp.* (D. Vaida) 36 #1196

On the question of *V(K)*-spaces "in the large". (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 303-309. (A. Urban) 34 #5034

(with Kantor. I. L.; Sirota, A. I.) A class of symmetric spaces with an extensible group of motions and a generalization of the Poincaré model. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 511-514. (A. Goetz) 35 #3607

The global structure of analytic semireducible Riemannian spaces. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 521-523. (H. W. Guggenheimer) 36 #3283

* Wstęp do algebry liniowej i programowania liniowego. (Polish) [Introduction to linear algebra and linear programming] *Pánstwowe Zakłady Wydawnictw Szkolnych, Warsaw,* 1969, 218 *pp.* (Editors) 41 #1373

* системы линейных неравенств. (Russian) [Systems of linear inequalities] *Izdat. "Nauka", Moscow,* 1969. 79 *pp.* 41 #3104

The group of projective transformations in a complete analytic Riemannian space. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 1262-1265. (H. W. Guggenheimer) 40 #1936

Solodovnikov, V. V.

Control algorithms and control computers for complex automation. (Russian) *Avtomat. Upravl. i Vyčisl. Teh. Vyp.* 3, *pp.* 5-35. *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1960. (Editors) 31 #3263

(with Matveev, P. S.) The synthesis of correcting devices for automatic control systems in the presence of noise. (Russian) *Avtomat. Upravl. i Vyčisl. Teh., Vyp.* 4, *pp.* 93-183 *(2 fold-outs). Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1961. (N. H. Choksy) 31 #5757

* (with Uskov, A. S.) Statistische Analyse von Regelstrecken. *VEB Verlag Technik, Berlin,* 1963. 167 *pp.* (Editors) 31 #1121

* Statistical dynamics of linear automatic control systems. Translated by W. Chrzczonowicz. *D. Van Nostrand Co., Ltd., London-Princeton, N. J.-Toronto,* 1965. 576 *pp.* (Editors) 31 #5720

(See also Automatic control and computer engineering, 35 #5237)

Solodownikow, W. W. See Solodovnikov, V. V.

Sologub, V. G.

(with Masalov, S. A.) A rigorous solution of the problem of the diffraction of electromagnetic waves on a certain arrangement of strips. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 693-715. (E. Sánchez Palencia) 43 #2919

Sologub, V. S.

The origins of the concept of potential. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1962, *no.* 5, *Ser. Mat. Meh. vyp.* 2, 121-135. (Editors) 34 #4517

The origin of the theory of the potenetial of a double layer and the first of its applications to the solution of certain boundary-value problems. (Russian) *Approximate Methods of Solving Differential Equations (Russian), pp.* 110-125. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. (Editors) 32 #5905

On the first integration methods of the Laplace equation. (Ukrainian. Russian summary) *Istor.-Mat. Zbirnik* 4 (1963), 78-89. (Editors) 32 #15

On the sources of the first boundary problem of potential theory and the method of Green functions. (Ukrainian. Russian summary) *Istor.-Mat. Zbirnik* 4 (1963), 90-103. 32 #26

On the history of boundary values for elliptic equations. (Russian) *Problems of Math. Phys. and Theory of Functions, II (Russian), pp.* 186-195. *Naukova Dumka, Kiev,* 1964. (L. Gårding) 32 #4375

On the history of the theorem on the discontinuity of the normal derivative of a surface potential. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1965, *no.* 7, 144-150. 34 #1539

(See also History of national mathematics in four volumes. Vol. I. From oldest times to the end of the 18th century, 35 #4068; History of national mathematics in four volumes. Vol. II. 1801-1917, 37 #3888; and History of national mathematics in four volumes. Vol. 3: 1917-1967, 38 #5566)

Development of the theory of the differential equation $\Delta u + k^2 u = 0$ in the second half of the XIX century. (Russian) *Problems in the Theory and History of Differential Equations (Russian), pp.* 49-65. *"Naukova Dumka", Kiev,* 1968. (I. N. Veselovskiĭ) 37 #5074

Šolohovič, F. A.

Controllability in a Hilbert space. (Russian) *Differencial'nye Uravnenija* 3 (1967), 479-484. (M. M. Wonham) 35 #3196

Šolohovič, V. F.

Unstable extremal problems. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 2, 103-111. (E. Gerlach) 43 #7994

Nonstable extremal problems, and the geometric properties of Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 289-291. (E. Asplund) 44 #4498

The solution of nonlinear operator equations of the first kind. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 2 (105), 113-118. (J. Daneš) 44 #2109

The stability of extremal problems in a Banach space. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 420-430. (Z. Diviš) 44 #7411

Solomencev, E. D.

Harmonic and subharmonic functions and their generalizations. (Russian) *Math. Analysis. Theory of Probability. Control* (1962), *pp.* 83-100. *Itogi Nauki, Akad. Nauk SSSR Inst. Naučn. Inform., Moscow,* 1964. (L. C. Young) 31 #4918

Certain questions related to the fundamental Green's formula for harmonic functions. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 272-274. *Izdat. "Nauka", Moscow,* 1966. (N. Boboc) 37 #1638

A three-spheres theorem for harmonic functions. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 42 (1966), *no.* 5, 274-278. (A. J. Lohwater) 34 #7816

On the fundamental Green's formula for harmonic functions. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1432-1434. (G. Biriuk) 34 #2915

(See also Proceedings of a Technical Sciences Conference on the Advances of Scientific Research during the Years 1966-1967, 39 #2556)

Certain classes of harmonic functions. (Russian) *Proc. Tech. Sci. Conf. on Advances of Sci. Res.* 1966-1967. *Math. Section (Russian), pp.* 192-199. *Moskov. Ènerget. Inst., Moscow,* 1967. (J. Siciak) 39 #5812

Mean values of subharmonic functions. (Russian. English and Armenian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 3, 139-154. (A. Huber) 38 #334

Harmonic functions representable by Green's type integrals. I. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 149-160. (N. Boboc) 37 #452

Harmonic functions representable by Green's type integrals. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 835-854. (N. Boboc) 37 #453

Integrals of Green's type and the estimation of harmonic functions in terms of their boundary data. (Russian) Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 367-369. (Ü. Kuran) 42 #6264

Solomentseff, E. D. See Solomencev, E. D.

Solomešč, I. A.

On the asymptotic behaviour of eigenvalues of bilinear forms associated with degenerate elliptic equations. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 1, 163-166. (M. Pinl) 30 #338

Solomešč, M. A.

On an inequality in the theory of plastic flow. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 3, 70-76. (J. Nowinski) 32 #8606

Solomiak, M. Z. See Solomjak, M. Z.

Solomiak, T. B. See Solomjak, T. B.

Solomjak, M. Z.

On the solvability of certain integral identities. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 238 (1962), 141-148. (Z. Zieleźny) 30 #339

On linear elliptic systems of first order. (Russian) *Dokl. Akad. Nauk SSSR* 150 (1963), 48-51. (B. Bojarski) 31 #491

(with Birman, M. Š.) On double Stieltjes operator integrals. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1223-1226. (L. de Branges) 32 #6234

(with Birman, M. Š.) Double Stieltjes operator integrals. (Russian) *Probl. Math. Phys., No.* 1, *Spectral Theory and Wave Processes (Russian), pp.* 33-67. *Izdat. Leningrad. Univ., Leningrad,* 1966. (L. de Branges) 35 #767b

(with Birman, M. Š.) Approximation of functions of the W_p^α-classes by piecewise-polynomial functions. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1015-1018. (G. G. Lorentz) 35 #630

(with Birman, M. Š.) Double Stieltjes operator integrals and problems on multipliers. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1251-1254. (L. de Branges) 35 #767a

(with Birman, M. Š.) Double Stieltjes operator integrals. II. (Russian) *Problems of Mathematical Physics, No.* 2, *Spectral Theory, Diffraction Problems (Russian), pp.* 26-60. *Izdat. Leningrad. Univ., Leningrad,* 1967. (L. de Branges) 38 #2621

(with Tihomirov, V. M.) Geometric characteristics of the imbedding of the classes W_p^α in C. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 76-82. (J. Albrycht) 36 #1972

(with Birman, M. Š.) Piecewise polynomial approximations of functions of classes W_p^α. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 331-355. (J. Horváth) 36 #576

(with Birman, M. Š.) Estimates of singular numbers of integral operators. I. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 7, 43-53. (H. Baumgärtel) 35 #7173

(with Birman, M. Š.) Estimates of singular numbers of integral operators. II. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 13, 21-28. (H. Baumgärtel) 36 #739

Transformers generated by Stieltjes double operator integrals. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 5 (1967), 201-231. (L. de Branges) 37 #3372

The approximation of double Stieltjes operator integrals by integral sums. (Russian. English summary) *Vestnik Leningrad Univ.* 23 (1968), *no.* 7, 148-149. (G. G. Lorentz) 38 #566

(with Birman, M. Š.) Remarks on the nuclearity of integral operators and the boundedness of pseudodifferential operators. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 9 (88), 11-17. (L. Janos) 40 #7877

(with Birman, M. Š.) Estimates of singular numbers of integral operators. III. Operators in unbounded domains. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 1, 35-48. (H. Baumgärtel) 39 #7468

(with Birman, M. Š.) The principal term of the spectral asymptotics for "nonsmooth" elliptic problems. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 4, 1-13. (Ja. A. Roĭtberg) 43 #3857

(with Birman, M. Š.) Asymptotics of the spectrum of weakly polar integral operators. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1142-1158. (Ja. A. Roĭtberg) 43 #5359

(with Birman, M. Š.) On the proof of the theorem on the asymptotic behavior of the spectrum for the real part of a Volterra operator with nuclear imaginary component. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 4 (18), 16-25. (H. Triebel) 44 #2075

Estimates of the singular numbers of integral operators. IV. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 1, 76-87. (H. Baumgärtel) 41 #9066

(with Birman, M. Š.) The asymptotics of the spectrum of "nonsmooth" elliptic equations. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 1, 69-70. (R. Beals) 44 #659

(with Kostometov, G. P.) Estimates of the singular values of integral operators with a weak singularity. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 1, 28-39. (F. Smithies) 44 #5828

Solomjak, T. B.

Boundary value problems for a class of quasi-linear equations and systems of elliptic type. (Russian) *Izv. Vysš. Učebn. Zaved Matematika* 1959, *no.* 5 (12), 184-196. (L. Cattabriga (Zbl 107, 306)) 29 #3749

The first boundary problem for quasi-linear elliptic equations with non-uniform growth of the coefficients. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 1, 159-160. (R. Beals) 32 #4376

The Dirichlet problem for non-uniformly elliptic quasi-linear equations. (Russian) *Problems Math. Anal. Boundary Value Problems Integr. Equations (Russian), pp.* 88-109. *Izdat. Leningrad. Univ., Leningrad,* 1966. (J. Nečas) 35 #6996

The Dirichlet problem for a certain class of degenerate quasi-linear elliptic equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 2 (93), 76-85. (M. A. Atahodžaev) 43 #707

olomon, A. I.

(with Joseph, A.) Global and infinitesimal nonlinear chiral transformations. *J. Mathematical Phys.* 11 (1970), 748-761. (S. N. Biswas) 43 #1529

Group theory of superfluidity. *J. Mathematical Phys.* 12 (1971), 390-394. (D. B. Lichtenberg) 44 #6239

olomon, Alan

Some remarks on the Stefan problem. *Math. Comp.* 20 (1966), 347-360. (R. Gerber) 34 #2262

Systems of minimal surfaces. *Comm. Pure Appl. Math.* 20 (1967), 521-547. (F. J. Almgren, Jr.) 35 #6053

A steady state phase change problem. *Math. Comp.* 21 (1967), 355-359. (From the author's introduction) 36 #6166

Some symmetric systems of minimal surfaces. *Israel J. Math.* 8 (1970), 65-74. (F. J. Almgren, Jr.) 41 #4401

(with Solomon, Faiza) The initial-value problem for the equation $(tu_t)_t = u_{xx}$. *Math. Comp.* 24 (1970), 611-620. (Authors' summary) 42 #8723

The equilibrium configuration of a two phase medium with a density change. *J. Differential Equations* 9 (1971), 549-554. (S. Dümmel) 43 #695

Solomon, Donald W.

On differentiability of vector-valued functions of a real variable. *Studia Math.* 29 (1967), 1-4. (R. S. Booth) 36 #2753

On a constructive definition of the restricted Denjoy integral. *Trans. Amer. Math. Soc.* 128 (1967), 248-256. (W. D. L. Appling) 35 #1728

* Denjoy integration in abstract spaces. Memoirs of the American Mathematical Society, No. 85. *American Mathematical Society, Providence, R. I.,* 1969. i + 69 *pp.* (T. A. Botts) 39 #404

On separation in measure and metric density in Romanovski spaces. *Duke Math. J.* 36 (1969), 81-90. (Chr. Y. Pauc) 38 #6019

On non-measurable sets. *Duke Math. J.* 36 (1969), 183-191. (Chr. Y. Pauc) 39 #7050

On the failure of a decomposition. *Colloq. Math.* 22 (1971), 251-253. (T. H. Hildebrandt) 43 #4972

Solomon, Faiza

(with Solomon, Alan) The initial-value problem for the equation $(tu_t)_t = u_{xx}$. *Math. Comp.* 24 (1970), 611-620. (Authors' summary) 42 #8723

Solomon, Gustave

(with Stiffler, J. J.) Algebraically punctured cyclic codes. *Information and Control* 8 (1965), 170-179. (H. F. Mattson) 30 #5847

(with McEliece, R.) Weights of cyclic codes. *J. Combinatorial Theory* 1 (1966), 459-475. (From the authors' introduction) 38 #1940

(with Berlekamp, E. R.; Rumsey, H.) On the solution of algebraic equations over finite fields. *Information and Control* 10 (1967), 553-564. (H. F. Mattson, Jr.) 37 #6266

The (7, 5) *R-S* code over GF(2^3) is a (21, 15) BCH code. *IEEE Trans. Information Theory* IT-15 (1969), 619-620. (From the author's text) 42 #4321

Solomon, Herbert

(See Mathematical methods in small group processes, 29 #4611)

Random packing density. *Proc. Fifth Berkeley Sympos. Mathematical Statistics and Probability (Berkeley, Calif., 1965/66), Vol. III: Physical Sciences, pp.* 119-134. *Univ. California Press, Berkeley, Calif.,* 1967. (M. E. Wise) 41 #1187

(with Blaisdell, B. Edwin) On random sequential packing in the plane and a conjecture of Palasti. *J. Appl. Probability* 7 (1970), 667-698. (H. Groemer) 43 #8101

Solomon, Jay M.

Huygens' principle for a class of singular Cauchy problems. *J. Differential Equations* 10 (1971), 219-239. (J. E. Lagnese) 44 #5606

Solomon, Liviu

On Saint-Venant's problem. IV. Determining the degree of torsion. Examples. (Romanian. Russian and English summaries) *Com. Acad. R. P. Romîne* 12 (1962), 7-17. (L. M. Milne-Thomson) 31 #2873

On the formulas of Kolosov-Musheliŝvili. (Romanian. Russian and French summaries) *An. Univ. Bucureşti. Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 40, 33-41. (M. Mişicu) 31 #4236

Upon the geometrical punch-penetration rigidity. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 832-835. (R. M. Morris) 30 #5543

Upon the paradoxal character of the solutions of Kelvin-Somigliana and Kolossoff-Muskhelishvili in the plane elasticity. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 58-62. (P. P. Teodorescu) 30 #5555

* Élasticité linéaire. Préface du P. Germain. *Masson et Cie, Éditeurs, Paris,* 1968. xix + 742 *pp.* (Editors) 37 #7120

* Elasticitate liniară. Introducere matematica în statica solidului elastic. (Romanian) [Linear elasticity. Mathematical introduction to the statics of an elastic solid] *Editura Academiei Republicii Socialiste România, Bucharest,* 1969. 814 *pp.* (Editors) 40 #8320

Difficulties and necessary precautions in using Richter's and Noll's symbolism in the theory of non-linear deformation. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 599-607. (C.-C. Wang) 44 #7824

Solomon, Louis

Invariants of Euclidean reflection groups. *Trans. Amer. Math. Soc.* 113 (1964), 274-286. (H. W. Guggenheimer) 29 #2329

A fixed-point formula for the classical groups over a finite field. *Trans. Amer. Math. Soc.* 117 (1965), 423-440. (R. Steinberg) 30 #3150

The orders of the finite Chevalley groups. *J. Algebra* 3 (1966), 376-393. (T. Ono) 33 #7424

An action of the symplectic modular group. *Nagoya Math. J.* 27 (1966), 65-69. (E. Gottschling) 33 #4018

(with Verma, Daya-Nand) Sur le corps des quotients de l'algèbre enveloppante d'une algèbre de Lie. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A985-A986. (G. B. Seligman) 35 #6725

The Burnside algebra of a finite group. *J. Combinatorial Theory* 2 (1967), 603-615. (R. Renne) 35 #5528

A decomposition of the group algebra of a finite Coxeter group. *J. Algebra* 9 (1968), 220-239. (T. Ono) 38 #1191

On the Poincaré-Birkhoff-Witt theorem. *J. Combinatorial Theory* 4 (1968), 363-375. (G. B. Seligman) 36 #2665

The Steinberg character of a finite group with *BN*-pair. *Theory of Finite Groups (Symposium, Harvard Univ., Cambridge, Mass., 1968), pp.* 213-221. *Benjamin, New York,* 1969. (T. Ono) 40 #220

The solution of equations in groups. *Arch. Math. (Basel)* 20 (1969), 241-247. (J. Lewin) 40 #2742

Solomon, Louis P.

(with Moler, Cleve B.) Integrating square roots. *Comm. ACM* 13 (1970), 556-557. (J. C. Butcher) 44 #1223

Solomon, Sender

Sur une généralisation de l'équation de Volterra. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A264-A266. (A. K. Aziz) 39 #3363

Sur une généralisation de l'équation de Volterra. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 15 (1969), 71-82. (J. S. W. Wong) 40 #6322

Sur les équations fonctionnelles de Volterra. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A150-A152. (J. S. W. Wong) 39 #7365

Solomonoff, R. J.

A formal theory of inductive inference. I. *Information and Control* 7 (1964), 1-22. (F. Safier) 30 #2963

A formal theory of inductive inference. II. *Information and Control* 7 (1964), 224-254. (F. Safier) 30 #2964

Solomonov, V. V.

Two problems of integral goemetry that are connected with a vector space over a finite field. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 262, 230-235 (1969). (R. V. Ambarcumjan) 44 #5911

Šolomov, L. A.

Realization of Boolean functions by a multi-threshold element. *Avtomat. i Telemeh.* 1966, *no.* 3, 97-104 *(Russian. English summary); translated as Automat. Remote Control* 27 (1966), *no.* 3, 435-441. (C. L. Sheng) 34 #5586

Complexity criteria for Boolean functions. (Russian) *Problemy Kibernet. No.* 17 (1966), 91-127. (A. A. Mullin) 36 #3603

Functionals which characterize the complexity of systems of sub-definite Boolean functions. (Russian) *Problemy Kibernet. No.* 19 (1967), 123-139. (J. Gruska) 39 #3913

The realization of indeterminate Boolean functions by schemes of functional elements. (Russian) *Problemy Kibernet. No.* 21 (1969), 215-226. (M. Nosal) 44 #1516

The computation of the complexity of Boolean functions on Turing machines. (Russian) *Problemy Kibernet. No.* 22 (1970), 53-66, 296. (Pavel Strnad) 44 #6182

Solomyak, M. Z. See Solomjak, M. Z.

Solomyak, T. B. See Solomjak, T. B.

Solonnikov, V. A.

(with Ladyženskaja, O. A.) Solution of some non-stationary problems of magnetohydrodynamics for a viscous incompressible fluid. (Russian) *Trudy Mat. Inst. Steklov.* 59 (1960), 115-173. (C. K. Chu) 30 #370

Some stationary boundary-value problems of magnetohydrodynamics. (Russian) *Trudy Mat. Inst. Steklov.* 59 (1960), 174-187. (C. K. Chu) 30 #371

(with Golovkin, K. K.) The first boundary-value problem for the non-stationary Navier-Stokes equations. (Russian) *Dokl. Akad. Nauk SSSR* 140 (1961), 287-290. (A. Krzywicki (Zbl 106, 183)) 29 #6202

On general boundary value problems for systems of differential equations of elliptic and parabolic types. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 246-252. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (D. R. Smith) 34 #4675

Bounds for the solutions of general boundary-value problems for elliptic systems. (Russian) *Dokl. Akad. Nauk SSSR* 151 (1963), 783-785. (R. Beals) 33 #1586

Boundary-value problems for general linear parabolic systems. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 56-59. (L. Gårding) 31 #3727

Estimates of fundamental matrices for general parabolic systems with constant coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 532-535. (R. Výborný) 30 #3313

General boundary value problems for systems elliptic in the sense of A. Douglis and L. Nirenberg. I. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 665-706. (O. A. Oleĭnik) 35 #1952

(with Golovkin, K. K.) Bounds for integral operators in translation-invariant norms. (Russian) *Trudy Mat. Inst. Steklov.* 70 (1964), 47-58. (Z. Zieleźny) 29 #470

Estimates for solutions of a non-stationary linearized system of Navier-Stokes equations. (Russian) *Trudy Mat. Inst. Steklov.* 70 (1964), 213-317. (P. C. Fife) 30 #1325

On the differential properties of the solution of the first boundary-value problem for a non-stationary system of Navier-Stokes equations. (Russian) *Trudy Mat. Inst. Steklov.* 73 (1964), 222-291. (P. C. Fife) 30 #2240

On boundary value problems for linear parabolic systems of differential equations of general form. (Russian) Boundary value problems of mathematical physics. III. Edited by O. A. Ladyženskaja. *Trudy Mat. Inst. Steklov.* 83 (1965), 3-163. (O. A. Oleĭnik) 35 #1965

(with Golovkin, K. K.) Estimates for integral operators in translation invariant norms. II. (Russian) *Trudy Mat. Inst. Steklov.* 92 (1966), 5-30. (Z. Zieleźny) 34 #4840

General boundary value problems for systems elliptic in the sense of A. Douglis and L. Nirenberg. II. (Russian) *Trudy Mat. Inst. Steklov.* 92 (1966), 233-297. (O. A. Oleĭnik) 35 #1953

(See also Proceedings of the Steklov Institute of Mathematics. No. 83 (1965): Boundary value problems of mathematical physics, 35 #1966)

* (with Ladyženskaja, O. A.; Ural'ceva, N. N.) Линейные и квазилинейные уравнения параболического типа. (Russian) [Linear and quasilinear equations of parabolic type] *Izdat. "Nauka", Moscow,* 1967. 736 *pp.* (B. Frank Jones, Jr.) 39 #3159a

Estimates in L_p of solutions of elliptic and parabolic systems. (Russian) *Trudy Mat. Inst. Steklov.* 102 (1967), 137-160. (Z. Zieleźny) 37 #4388

* (with Ladyženskaja, O. A.; Ural'ceva, N. N.) Linear and quasi-linear equations of parabolic type. Translated from the Russian by S. Smith. Translations of Mathematical Monographs, Vol. 23. *American Mathematical Society, Providence, R. I.,* 1968. xi + 648 *pp.* (B. Frank Jones, Jr.) 39 #3159b

(with Golovkin, K. K.) Estimates of convolution operators. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 7 (1968), 6-86. (Š. Schwabik) 39 #7470

Estimates of the solutions of parabolic boundary value problems in weighted L_p norms, and point-wise estimates. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 212-236. (P. C. Fife) 44 #1939

A complementing condition for overdetermined systems. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 237-255. (R. A. Kordzadze) 44 #7157

The Green's matrices for elliptic boundary value problems. I. (Russian) *Trudy Mat. Inst. Steklov.* 110 (1970), 107-145. (V. V. Barkovskiĭ) 44 #7120

Overdetermined elliptic boundary value problems. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 21 (1971), 112-158. (P. Szeptycki) 44 #7121

(with Panič, O. I.) On the question of an equivalent right regularizer. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 22 (1971), 192-195. (D. Przeworska-Rolewicz) 44 #7324

Solovay, Robert M.

(See Palais, Richard S., 33 #6649)

New proof of a theorem of Gaifman and Hales. *Bull. Amer. Math. Soc.* 72 (1966), 282-284. (Ph. Dwinger) 32 #4057

(with Lévy, Azriel) Measurable cardinals and the continuum hypothesis. *Israel J. Math.* 5 (1967), 234-248. (G. Fodor) 37 #57

A nonconstructible Δ^1_3 set of integers. *Trans. Amer. Math. Soc.* 127 (1967), 50-75. (G. Fodor) 35 #2748

On the cardinality of Σ^1_2 sets of reals. *Foundations of Mathematics (Symposium Commemorating Kurt Gödel, Columbus, Ohio,* 1966*), pp.* 58-73. *Springer, New York,* 1969. (Y. N. Moschovakis) 43 #3115

(with Martin, D. A.) A basis theorem for Σ^1_3 sets of reals. *Ann. of Math.* (2) 89 (1969), 138-159. (E. Mendelson) 41 #53

(with Jensen, R. B.) Some applications of almost disjoint sets. *Mathematical Logic and Foundations of Set Theory (Proc. Internat. Colloq., Jerusalem,* 1968*), pp.* 84-104. *North-Holland, Amsterdam,* 1970. (Andreas Blass) 44 #6482

A model of set-theory in which every set of reals is Lebesgue measurable. *Ann. of Math.* (2) 92 (1970), 1-56. (A. Lévy) 42 #64

(with Martin, D. A.) Internal Cohen extensions. *Ann. Math. Logic* 2 (1970), *no.* 2, 143-178. (L. Bukovský) 42 #5787

Soloy'ev, A. D.

Asymptotic distribution of the life time of a doubled element (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 5, 119-121. (K. Dietz) 30 #3755

* (with Gnedenko, B. V.; Beljaev, Ju. K.) Математические методы в теории надежности. Основные характеристики надежности и их статистически анализ. (Russian) [Mathematical methods in the theory of reliability. Fundamental characteristics of reliability and their statistical analysis] *Izdat. "Nauka", Moscow,* 1965. 524 *pp.* 32 #5432

A combinatorial identity and its application to the problem on the first occurrence of a rare event. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 313-320. (W. Hoeffding) 34 #2090

Theory of aging elements. *Proc. Fifth Berkeley Sympos. Mathematical Statistics and Probability (Berkeley, Calif.,* 1965/66*), Vol. III: Physical Sciences, pp.* 313-324. *Univ. California Press, Berkeley, Calif.,* 1967. (Benjamin Epstein) 36 #7281

(with Beljaev, Ju. K.; Gnedenko, B. V.) On some stochastic problems of reliability theory. *Proc. Fifth Berkeley Sympos. Mathematical Statistics and Probability (Berkeley, Calif.,* 1965/66*), Vol. III: Physical Sciences, pp.* 259-270. *Univ. California Press, Berkeley, Calif.,* 1967. (R. J. Buehler) 37 #993

Letter to the editor. (Russian) *Teor. Verojatnost. i Primenen.* 12 (1967), 586. (Editors) 37 #5971

* (with Gnedenko, B. V.; Beljaev, Ju. K.) Mathematische Methoden der Zuverlässigkeitstheorie. I, II. In deutscher Sprache bearbeitet und herausgegeben von Peter Franken. Mathematische Lehrbücher und Monographien, II. Abteilung, Mathematische Monographien. Bände XXI, XXII. *Akademie-Verlag, Berlin,* 1968. *Vol. I:* xii + 222 *pp.; Vol. II:* vii + 262 *pp.* (H. L. Harter) 39 #3666

Standby with rapid renewal. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 1, 56-71 *(Russian); translated as Engrg. Cybernetics* 1970, *no.* 1, 49-64. (N. U. Prabhu) 42 #7016

(See also Takács, Lajos, 43 #2767)

Solov'ev, A. F.

On the problem of moments. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 305-308. *Fizmatgiz, Moscow,* 1961. (G. G. Lorentz) 32 #6166

On a generalized Riesz theorem. (Russian) *Jaroslav. Gos. Ped. Inst. Dokl. Naučn. Konfer.* 2 (1964), *vyp.* 3, 130-135. (H. Fast) 32 #5815

On the weight of a moment sequence for a finite interval. (Russian) *Jaroslav. Gos. Ped. Inst. Dokl. Naučn. Konfer.* 2 (1964), *vyp.* 3, 136-141. (A. Peyerimhoff) 33 #6310

On H. Hamburger's problem of moments. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962*) (Russian), pp.* 616-619. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (G. Biriuk) 33 #1672

On the solution of the problem of moments in an Orlicz space. (Russian) *Jaroslav. Gos. Ped. Inst. Učen. Zap. Vyp.* 60 (1968), 103-110. (A. Devinatz) 42 #8203

Solov'ev, A. S.

An integral equation and its application to contact problems in the theory of elasticity with friction and cohesion forces. *Prikl. Mat. Meh.* 33 (1969), 1042-1050 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 1012-1020 (1970). (T. G. Gegelia) 43 #841

Solov'ev, G. G.

(with Sokolov, B. M.) A certain algorithm for the solution of matrix games. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 7, 153-155. (M. Iosifescu) 40 #5270

Solov'ev, Ju. I.

(with Aleksandrov, A. Ja.) On a generalization of the method of solution of axially symmetric problems in the theory of elasticity by means of analytic functions to spatial problems without axial symmetry. *Dokl. Akad. Nauk SSSR* 154 (1964), 294-297 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 99-102. (Y. Y. Yu) 32 #3342

Solov'ev, L. D.

(with Jušin, Ju. Ja.) Infrared singularities of matrix elements in scalar electrodynamics. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1202-1207 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 830-833. (H. Suura) 32 #3570

Asymptotic relations between cross sections with account of the electromagnetic interaction. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1043-1049 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 699-703. (D. R. Yennie) 32 #6990

Low-energy photons in elementary particle collisions. *Nuclear Phys.* 64 (1965), 657-676. (D. R. Yennie) 31 #3047

Infrared asymptotic of the Green's functions. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 1740-1749 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 1166-1171. (Emil Kazes) 33 #2227

olov'ev, N. A.

An estimate of the number of combinations with repetitions, where each object appears at least once. (Russian) *Diskret. Analiz No.* 10 (1967), 121-125. (J. B. Roberts) 36 #1345

Unconditional tests for a certain class of tables. *Problemy Kibernet. No.* 18 (1967), 45-65 *(Russian); translated as Systems Theory Res.* 18 (1968), 42-61. (B. W. Arden) 39 #5256

olov'ev, P. A.

Maximum length of the closed involute of a class of curves. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 112-122. (H. W. Guggenheimer) 35 #6050

olov'ev, V. A.

Extension of a monotone norm from a normed lattice to its Dedekind completion. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1360-1369. (G. J. O. Jameson) 34 #4885

Certain completion properties of normed lattices. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 89-99. (G. J. O. Jameson) 36 #1955

The extension of a semicontinuous norm and a monotonically complete norm from a *KN*-lineal to its Dedekind completion. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 1, 52-57. (G. J. O. Jameson) 37 #733

(with Lozanovskiĭ, G. Ja.) The monotone extension of a Banach norm from a vector lattice to its Dedekind completion. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 13, 51-53. (T. Ando) 40 #4732

olov'ev, V. V.

(with Dolgov, A. D.; Okun', L. B.; Pomerančuk, I. Ja.) Baryon electromagnetic mass differences and SU_6-symmetry. *Phys. Lett.* 15 (1965), 84-85. (S. L. Glashow) 31 #6583

olov'eva, E. N.

(with Budak, B. M.; Uspenskiĭ, A. B.) A difference method with smoothing of coefficients for the solution of the Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 828-840. (A. D. Solomon) 33 #8109

(with Budak, B. M.) A difference method of solution of boundary value problems for an integro-differential equation. (Russian) *Comput. Methods Programming, VI (Russian), pp.* 34-54. *Izdat. Moskov. Univ., Moscow,* 1967. (A. Haimovici) 36 #4847

(with Budak, B. M.; Berkovič, E. M.) Difference approximations in optimal control problems. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 2, 41-55. (J. S. Shipman) 37 #3415

(with Budak, B. M.; Berkovič, E. M.) The difference approximations in optimal control problems. (Russian) *Computing Methods and Programming, XII (Russian), pp.* 115-134. *Izdat. Moskov. Univ., Moscow,* 1969. (B. Poljak (RŽMat 1970 #1 B524)) 44 #2122

(with Budak, B. M.; Berkovič, E. M.) The convergence of difference approximations for optimal control problems. (Russian) *Computing Methods and Programming, XII (Russian), pp.* 135-142. *Izdat. Moskov. Univ., Moscow,* 1969. (B. Poljak (RŽMat 1970 #1 B525)) 44 #2123

(with Budak, B. M.; Berkovič, E. M.) Difference approximations in optimal control problems. *SIAM J. Control* 7 (1969), 18-31. (Editors) 39 #4721

(with Budak, B. M.; Berkovič, E. M.) The convergnece of difference approximations for optimal control problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 522-547. (H. O. Fattorini) 41 #7825

olov'eva, N. Ja.

* (with Danilov, K. G.; Zaĭcev, R. O.; Maksimov, E. G.) Математический анализ. Часть I. (Russian) [Mathematical analysis. Part I] *Univ. Druzby Narodov, Moscow,* 1963. 180 *pp. (errata insert)* (Editors) 39 #2551a

oloviev, A. D. See Solov'ev, A. D.

oloviev, L. D. See Solov'ev, L. D.

olov'yev, A. D. See Solov'ev, A. D.

olovyev, V. V. See Solov'ev, V. V.

oltan, P. S.

On the illumination of the boundary of a convex body from within. (Russian) *Mat. Sb. (N.S.)* 57(99) (1962), 443-448. (B. Grünbaum) 29 #518

On problems of covering and lighting of convex bodies. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 1, 49-57. (W. J. Firey) 34 #6642

Concerning problems of covering and lighting of convex bodies. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 69-74. (V. Linis) 34 #1930

On relations between the problems of covering and lighting of convex bodies. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1966, *no.* 4, 91-93. (W. J. Firey) 34 #6643

(with Boltjanskiĭ, V. G.) A generalization of the Hurewicz theorem on the dimension of preimages. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 257-285. (S. Mardešić) 33 #6587

(with Zambickiĭ, D. K.) A certain extremal problem on a tree. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Èkonom. i Mat. Metody, Collection No. 1), (Russian), pp.* 102-107. *Izdat. "Nauka", Moscow,* 1969. (B. Zelinka) 44 #6544

(with Zambickiĭ. D. K.) Finding the class of 1-connectivity of a graph. (Russian) *Prikl. Mat. i Programmirovanie Vyp.* 1 (1969), 61-67. (J. Morávek) 43 #4571

Illumination from within for unbounded convex bodies. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 273-274. (V. Linis) 42 #5162

The illumination of unbounded convex bodies. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 1 (15), 128-140. (V. Linis) 44 #3209

A solution to the problem of covering unbounded convex three-dimensional bodies with homothetic ones. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2 (16), 193-195. (W. J. Firey) 43 #1049

(with Prisakaru, K. F.) Steiner's problem on graphs. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 46-49. (W. Dörfler) 43 #6132

Soltsien, Kay

(with Schubert, Horst) Isotopie von Flächen in einfachen Knoten. *Abh. Math. Sem. Univ. Hamburg* 27 (1964), 116-123. (R. H. Fox) 29 #4053

Bestimmung von Schlingknoten. *Abh. Math. Sem. Univ. Hamburg* 28 (1965), 234-249. (R. H. Fox) 33 #7999

Šoluhova, R. S.

(with Karmišin, A. V.) Certain formulae for the reduction of algebraic determinants to polynomial form. (Russian) *Moskov. Gos. Univ. Voprosy Meh. Vyp.* 193 (1961), 3-10. (H. Schwerdtfeger) 32 #1189

Solunin, A. M.

(with Zaĭcev, G. A.) Certain properties of the exterior-invariant Maxwell equations, and the physical significance of the group of exterior transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 11, 53-57. (J. Virsik) 41 #9501

Somadasa, H.

(with Linden, C. N.) Zero tracts of Blaschke products. *Canad. J. Math.* 18 (1966), 1072-1078. (G. T. Cargo) 35 #382

Blaschke products with zero tangential limits. *J. London Math. Soc.* 41 (1966), 293-303. (G. T. Cargo) 33 #7554

(with Linden, C. N.) On tangential limits of Blaschke products. *Arch. Math. (Basel)* 18 (1967), 416-424. (G. T. Cargo) 38 #2306

Somasundaram, D.

Inclusion theorems on matrix transformation of some sequence spaces over non-archimedian fields. *Boll. Un. Mat. Ital.* (4) 3 (1970), 953-960. (A. F. Monna) 43 #3782

A note on the sequence space $l(p_\nu)$. *Proc. Indian Acad. Sci. Sect. A* 72 (1970), 36-41. (E. Dubinsky) 42 #5005

Somayajulu, A. L. N.

Humbert and hyperbesselien functions. *J. Sci. Res. Banaras Hindu Univ.* 13 (1962/63), 361-381. (P. Heywood) 29 #2607

Somayajulu, Al

A property of arithmetic functions. *Amer. Math. Monthly* 75 (1968), 509-511. (E. M. Paul) 38 #2108

On arithmetic functions with congruence property. *Portugal. Math.* 27 (1968), 83-85. (M. V. Subbarao) 41 #5281

Someda, Carlo G.

(with Corazza, G. Z.; Longo, G.) Generalized Thévenin's theorem for linear *n*-port networks. *IEEE Trans. Circuit Theory* CT-16 (1969), 564-566. (J. Kuntzmann) 40 #8503

(with Corazza, Gian Carlo; Longo, Giuseppe) A vector-space approach to the theory of linear *n*-port networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 168-174. (C. F. Picard) 42 #9082

Somen, André

Relations entre les translations et deux classes de mesures sur une partie localement compacte d'un groupe topologique. *C. R. Acad. Sci. Paris* 260 (1965), 3268-3270. (K. A. Ross) 30 #3939; erratum, 31, p. 1335

S'omik, V. P.

The extension of the concept of the rank of an address. (Ukrainian. Russian summary) *Computational Mathematics and Techniques (Ukrainian), pp.* 62-65. *Vidavn. Akad. Nauk Ukraïn. RSR, Kiev,* 1963. (Author's summary) 42 #4050

Sominski, I. S. See Sominskiĭ, I. S.

Sominskiĭ, I. S.
* Matematiksel indüksiyon metodu. (Turkish) [The method of mathematical induction] Translated by Bediz Asral. Turkish Mathematical Society Publications, No. 11. *Türk Matematik Derneği, Istanbul,* 1962. viii + 72 *pp.* (Editors) 37 #5066
* (with Faddeev, D. K.) Problems in higher algebra. Translated by J. L. Brenner. *W. H. Freeman and Co., San Francisco-London,* 1965. ix + 498 *pp.* (Editors) 31 #1258
* Die Methode der vollständigen Induktion. Neunte Auflage. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 55 *pp.* (Editors) 40 #1236

Sominsky, I. See Sominskiĭ, I. S.

Sommer, David
(with Balas, Egon; Bowman, V. Joseph; Glover, Fred) An intersection cut from the dual of the unit hypercube. *Operations Res.* 19 (1971), 40-44. (Authors' summary) 44 #7973

Sommer, Friedrich
Functions of complex variables. *Mathematics Applied to Physics, pp.* 1-51. *Springer, New York,* 1970. (J. L. Kazdan) 41 #5602

Sommerfeld, Arnold
* Vorlesungen über theoretische Physik. Band VI: Partielle Differentialgleichungen der Physik. Fünfte Auflage. Bearbeitet und ergänzt von Fritz Sauter. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1962. xii + 298 *pp.* (Editors) 29 #5417
* (with Klein, Felix) Über die Theorie des Kreisels. Bibliotheca Mathematica Teubneriana, Band 1. *Johnson Reprint Corp., New York; B. G. Teumer Verlagsgesellschaft, Stuttgart,* 1965. vi + 966 *pp.* (Editors) 32 #3325

Sommerfield, Charles M.
Solution of the integral equation for $V\theta$ scattering in the Lee model. *J. Mathematical Phys.* 6 (1965), 1170-1172. (G. Källén) 31 #4413
(with Glashow, Sheldon L.) Is charge-conjegation invariance badly broken? *Phys. Rev. Lett.* 15 (1965), 78-80. (G. Feinberg) 32 #2087

Sommerfield, M.
(with Coburn, N.) The propagation of discontinuities along characteristic surfaces in non-equilibrium fluids. *J. Math. Anal. Appl.* 35 (1971), 14-26. (K. Stewartson) 43 #4337

Sommers, Fred
The calculus of terms. *Mind* 79 (1970), 1-39. 41 #1502

Sommerville, D. M. Y.
* Bibliography of non-euclidean geometry. Second edition. *Chelsea Publishing Co., New York,* 1970. xii + 410 *pp.* (From the publisher's description) 42 #5773

Sommese, Joseph E.
On a maximal ideal space separated by a peak point. *Proc. Amer. Math. Soc.* 26 (1970), 471-472. (I. Kra) 41 #8999

Somogyi, A.
(with Kōta, J.) Some problems of investigating periodicities of cosmic ray time series. (Russian summary) *Acta Phys. Acad. Aci. Hungar.* 27 (1969), 523-548. (M. Atiqullah) 43 #8202

Sona, P. G.
(with Amar, V.; Esteve, A.) Strong interaction symmetries: A model based on SU(4). (Italian summary) *Nuovo Cimento* (10) 30 (1963), 772-783. (D. B. Lichtenberg) 31 #1948
(with Esteve, A.) Conformal group in Minkowsky space. Unitary irreducible representations. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 473-485. (C. Fronsdal) 29 #979
(with Cristofori, F.; Tonolini, F.) The statistics of the eignevalues of random matrices. *Nuclear Phys.* 78 (1966), 553-556. (M. L. Mehta) 33 #2311

Sondermann, Dieter
Mesures sur un espace localement borné. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A708-A709. (Author's summary) 37 #6440
Caractérisation des espaces β-compacts, β-pseudocompacts et β-réelcompacts par leurs mesures. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A827-A829. (Author's summary) 37 #6441
Masse auf lokalbeschränkten Räumen. (French and English summaries) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 2, 33-113 (1970). (J. C. Oxtoby) 41 #5587

Sondheimer, E. H.
(with Jones, M. C.) Magnetoplasma oscillations arising from diffuse surface scattering of electrons. *Phys. Rev. Lett.* 14 (1965), 643-644. (A. Corciovei) 31 #5640

Sondow, J.
(with Siebenmann, L.) Some homeomorphic sphere pairs that are combinatorially distinct. *Comment. Math. Helv.* 41 (1966/67), 261-272. (R. K. Lashof) 35 #4933

Sone, Noriyuki
Sufficient conditions for p-valence of regular functions. *J. Math. Soc. Japan* 16 (1964), 406-418. (P. L. Duren) 33 #1440
Some radii of multivalently starlikeness or convexity. *Math. Japon.* 10 (1965), 30-34. (M. Reade) 32 #7736
Multivalent mappings in several complex variables. *Math. Japon.* 12 (1967), 41-51. (M. Hervé) 37 #3055

Şoneriu, Nicolae
The summation of three rounded-off numbers. (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 653-664. (E. Deutsch) 43 #2872

Song, Charles C. S.
Numerical integration of a double integral with Cauchy-type singularity. *AIAA J.* 7 (1969), 1389-1390. (Editors) 39 #6516

Song, H. S.
(with Nyborg, P.; Kernan, W.; Good, R. H., Jr.) Phase-space considerations for four-particle final states. *Phys. Rev.* (2) 140 (1965), B914-B920. (F. R. Halpern) 32 #7026

Song, Man Souk
(with Chung, Kyung Tae) Conformal change in Einstein's $\overset{*}{g}{}^{\lambda\nu}$-unified field theory. I. (Italian and Russian summaries) *Nuovo Cimento B* (10) 58 (1968), 201-212. (J. Chalres-Renaudie) 39 #6600

Song, Siu-shu
The perimeter properties of dividing a convex curve into three or four arcs of equal length. (Chinese) *Formosan Sci.* 20 (1966), 77-84. (J. S. Dowker) 38 #6466

Soni, Kusum L.
Some relations associated with an extension of Koshliakov's formula. *Proc. Amer. Math. Soc.* 17 (1966), 543-551. (S. Knapowski) 34 #1284
Fractional integrals and Hankel transforms. *Duke Math. J.* 35 (1968), 313-319. (J. Rovnyak) 37 #707
A note on Fourier kernels. *Amer. Math. Monthly* 76 (1969), 174-176. (R. P. Srivastav) 39 #721
A Sonine transform. *Duke Math. J.* 37 (1970), 431-438. (A. Erdélyi) 41 #7389
A unitary transform related to some integral equations. *SIAM J. Math. Anal.* 1 (1970), 426-436. (R. P. Srivastav) 43 #5271
An integral equation with Bessel function kernel. *Duke Math. J.* 38 (1971), 175-180. (R. P. Srivastav) 43 #851

Soni, Raj Pal
(with Chen, W. T.) On a circular crack in a transversely isotropic elastic material under prescribed shear stress. *IBM J. Res. Develop.* 9 (1965), 192-195. (W. D. Kroll) 31 #6426
On an inequality for modified Bessel functions. *J. Math. and Phys.* 44 (1965), 406-407. (J. A. Donaldson) 32 #2634
(with Cornacchio, J. V.) On a relation between two-dimension Fourier integrals and series of Hankel transforms. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 173-174. (G. Doetsch) 32 #4470
* (with Magnus, Wilhelm; Oberhettinger, Fritz) Formulas and theorems for the special functions of mathematical physics. Third enlarged edition. Die Grundlehren der mathematischen Wissenschaften, Band 52. *Springer-Verlag New York, Inc., New York,* 1966. viii + 508 *pp.* (Mary L. Boas) 38 #1291
(See also Fettis, Henry E., 41 #2875)

Soni, S. L.
Evaluation of certain integrals. *Math. Education* 4 (1970), A140-A142. (J. P. Singhal) 43 #7674
A note on the Bessel polynomials. *Proc. Indian Acad. Sci. Sect. A* 71 (1970), 93-99. (S. D. Bajapi) 41 #7166
Fourier series of H function involving orthogonal polynomial. *Math. Education* 4 (1970), 80-84. (K. C. Gupta) 42 #2059

Soniat, Leonard E.
(with Lin, Y.-F.) A new characterization of Hausdorff k-spaces. *Proc. Japan Acad.* 44 (1968), 1031-1032. (J. Dugundji) 38 #5182

Sonin, I. M.
A class of degenerate diffusion processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 540-547. (J. G. Wendel) 35 #6208
The uniqueness classes for degenerate parabolic equations. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 459-473. (P. C. Fife) 44 #4374

Sonin, N. Ja.
(See Kropotov, A. I.) Николай Яковлевич Сонин (1849-1915) (Russian) [Nikolaĭ Jakovlevič Sonin (1849-1915)] *Izdat. "Nauka", Leningrad,* 1967. 135 *pp.* *(1 plate; errata insert)* (D. J. Struik) 37 #3896

onin, V. V.

(with Isaev, V. K.) Computational aspects of the problem of optimal flight as a boundary problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 252-261. (L. B. Rall) 34 #5556

onis, M. G.

Certain measurable subspaces of the space of all sequences with a Gaussian measure. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 277-279. (L. A. Shepp) 34 #5148

Positive functionals in completely symmetric rings. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 4, 58-65. (L. Longdon) 34 #1870

(See also Šilov, G. E.; Fan Dyk Tin′, 37 #1554)

A generalization of the law of large numbers for Gaussian measures. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 4, 31-37. (L. A. Shepp) 35 #3727

onn, J.

(with Zassenhaus, H.) On the theorem on the primitive element. *Amer. Math. Monthly* 74 (1967), 407-410. (M. J. Wonenburger) 35 #4201

onneborn, Lee M.

(with Van Vleck, F. S.) The bang-bang principle for linear control systems. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 151-159. (H. Hermes) 30 #2972

(with Scott, W. R.) Supersolvable wreath products. *Math. Z.* 92 (1966), 154-163. (Hanna Neumann) 33 #178

onnenblick, Estelle

(with Slepian, David) Eigenvalues associated with prolate spheroidal wave functions of zero order. *Bell System Tech. J.* 44 (1965), 1745-1759. (R. Nicolovius) 32 #585

onnenschein, Hugo

A representation for polynomials of several variables. *Amer. Math. Monthly* 78 (1971), 45-47. (J. E. Whitesitt) 42 #7637

onnenschein, Jakob

Sur l'existence de solutions du système d'équations différentielles de Kolmogorov. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 48 (1962), 705-714. (H. Bunke (Zbl 108, 147)) 32 #4301

(with Forbat, N.) Sur des conditions rigoureuses de stabilité asymptotique d'une vibration périodique d'un système non linéaire. *J. Mécanique* 2 (1963), 437-440. (B. Porter) 29 #1387

Opérateurs de même coefficient de contraction. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 52 (1966), 1078-1082. (L. P. Belluce) 35 #1005

Un corollaire au théorème du point fixe de M. J. Leray. *Cahiers Centre Études Recherche Opér.* 8 (1966), 251-252. (D. G. Bourgin) 35 #6136

Sur certaines propriétés du parallélotope utilisées dans la théorie des formes différentielles. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 171-177. (T. Okubo) 35 #6073

Sonner, Johann

Universal solutions and adjoint homomorphisms. *Math. Z.* 86 (1964), 14-20. (P. M. Cohn) 29 #5886

Canonical categories. *Proc. Conf. Categorical Algebra (La Jolla, Calif.,* 1965*), pp.* 272-294. *Springer, New York,* 1966. (O. Wyler) 36 #3846

Lifting inductive and projective limits. *Canad. J. Math.* 19 (1967), 1329-1339. (G. S. Rinehart) 37 #1433

Duality criteria. *Arch. Math. (Basel)* 19 (1968), 26-33. (C. F. Kent) 37 #124

Cauchy conditions concerning differentiability relative to valued algebraic extensions. *Arch. Math. (Basel)* 19 (1968), 171-173. (M. E. Shanks) 37 #4055

On sets with two elements. *Arch. Math. (Basel)* 20 (1969), 225-227. (D. Monk) 40 #36

Sonneveld, P.

Errors in cubic spline interpolation. *J. Engrg. Math.* 3 (1969), 107-117. (L. L. Schumaker) 40 #601

Sonrier, Marie-Thèrése Lacroix-, See Lacroix-Sonrier, Marie-Thèrése.

Sons, L. R.

Value distribution and power series with moderate gaps. *Michigan Math. J.* 13 (1966), 425-433. (M. E. Noble) 34 #2889

Regularity of growth and gaps. *J. Math. Anal. Appl.* 24 (1968), 296-306. (D. Sato) 39 #2984

Deficiencies of monomials. *Math. Z.* 111 (1969), 53-68. (W. K. Hayman) 40 #2868

On the Macintyre conjecture. *Illinois J. Math.* 14 (1970), 613-620. (Hari Shankar) 42 #4735

An analogue of a theorem of W. H. J. Fuchs on gap series. *Proc. London Math. Soc.* (3) 21 (1970), 525-539. (T. Kövari) 44 #6962

Sood, Arun K.

(with Neuman, Charles P.) Sensitivity functions for single-input linear time-invariant systems. *J. Franklin Inst.* 291 (1971), 169-179. (E. Ar) 43 #4511

Soong, T. T.

An extension of the moment method in statistical estimation. *SIAM J. Appl. Math.* 17 (1969), 560-568. (A. C. Cohen) 40 #2188

Soong, Tsai-chen

An approximate method for nonlinear ordinary differential equations. *AIAA J.* 9 (1971), 1175-1182. (W. F. Ames) 43 #4254

Soop, M.

A method for calculating the minimum of a one-dimensional variational integral on an infinite interval leading to a Schrödinger type eigenvalue problem. (German and Russian summaries) *Z. Angew. Math. Mech.* 48 (1968), 369-376. (D. O. Banks) 39 #6506

The shooting method for singular differential operators. (German and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 521-528. (P. G. Ciarlet) 42 #7084

Soós, Eugen

On the problem of St. Venant in the case of an inhomogeneous anisotropic material. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 40, 69-77. (M. Mişicu) 31 #4256

Sur le problème de Saint-Venant dans le cas des barres hétérogènes avec anisotropie cylindrique. *Bull. Math. Soc. Sci. Math. Phys. R.P. Roumaine (N.S.)* 7(55) (1963), 61-75. (I. Tadjbakhsh) 32 #8579

A mixed boundary problem for an aelotropic non-homogeneous elastic cylinder. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 979-994. (G. Rieder) 35 #3951

A mixed problem for an elastic circular cylinder, anisotropic with discontinuous non-homogeneity. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 871-883. (Editors) 35 #3950

Reciprocity theorems for elastic and thermo-elastic materials with micro-structure. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Tech.* 16 (1968), 895-900. (Editors) 39 #7861

Some applications of the theorem on reciprocity for an elastic and theomo-elastic material with micro-structure. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Tech.* 16 (1968), 901-907. (Editors) 39 #7862

Uniqueness theorems for homogeneous, isotropic, simple elastic and thermoelastic materials having a micro-structure. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 7 (1969), 257-268. (Author's summary) 39 #7860

Soper, G. K.

(with Lee, D. A.) Technique for determining the propagation characteristic of instabilities. *Phys. Fluids* 13 (1970), 995-1006. (T. Kahan) 43 #2955

Sopka, John J.

On abstract numerical integrations. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 137-139. (D. J. Evand) 34 #2184

Über verallgemeinerte numerische Integrationen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 373-380. *Birkhäuser, Basel,* 1968. (F. Stenger) 42 #4014

Mathematical basis for the plasma kinetic equations (BBGKY). *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 127-133. (T. J. M. Boyd) 39 #6594

Šopolov, N. N.

Generalized solutions of a boundary value problem for certain nonlinear first order differential equations. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 3 (1966), *kn.* 2, 105-114 (1970). (Author's summary) 42 #8062

(with Baĭnov, D. D.) A certain *n*th order linear differential equation. (Russian) *C. R. Acad. Bulgare Sci.* 20 (1967), 1125-1126. (S. Drobot) 37 #486

Šopov, Pet′′r

On the solution of the binomial equation in a differential field. (Bulgarian. French summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 1 Math.* 56 (1961/62), 1-6 (1963). (F. Haimo) 29 #2254; erratum, 36, p. 1565

Existence of a model of axioms of a differential field. (Bulgarian. French summary) *Annuaire Univ. Sofia Fac. Math.* 59 (1964/65), 143-150 (1966). 33 #4838

Sopov, S. P.

A theorem on uniform polyhedra. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 98-106. (W. J. Firey) 35 #6023

The number of uniform polyhedra with non-negative Euler characteristic. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 123-129. *(loose foldout)* (H. Sachs) 36 #3226; erratum, 36, p. 1568

The finiteness of the number of elementary uniform polyhedra with non-zero density. (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 160-166. (N. Poláková) 43 #6818

Šopova, Dimitrička

Irreducible elements defined by a separating system. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 58 (1963/64), 219-224 (1965). (J. G. Ceder) 32 #4648; erratum, 42, p. 1822

A certain form of the conditions for positivity. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Math.* 63 (1968/69), 53-59 (1970). *(loose errata)* (Edwin Hewitt) 44 #4457

Soprunenko, E. P.

On the minimal realization of certain functions by schemes of functional elements. (Russian) *Problemy Kibernet. No.* 15 (1965), 117-134. (N. Karpova (RŽMat 1966 #2 V216)) 38 #1953

Šor, E. Ja.

A Markov accumulation process. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1971, *no.* 1, 84-85, 95. (J. Wolfowitz) 44 #7660

Šor, Ja. B.

(with Aĭzerman, M. A.; Kreĭn, M. G.; Ljusternik, L. A.; Naĭmark, M. A.; Pontrjagin, L. S.; Sobolev, S. L.; Hristianovič, S. A.) Feliks Ruvimovič Gantmaher. Obituary. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 2 (122), 149-157. (1 *plate*) (Editors) 32 #29

Šor, L. A.

On the flexibility of convex polygons with a slit. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 513-520. (H. Busemann) 29 #5204

Deformations of a trivial collage. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 138-146. (A. V. Pogorelov) 36 #3292

Isometric non-deformable convex surfaces. (Russian) *Mat. Zametki* 1 (1967), 209-216. (Z. Nádeník) 34 #8285

A certain class of bendings of convex surfaces with slit. (Russian) *Ukrain. Geometr. Sb. Vyp.* 4 (1967), 102-107. (A. Milka (RŽMat 1968 #8 A556)) 40 #6463

Šor, N. Z.

On optimal control of Markov sequences with two phase states. (Ukrainian. Russian summary) *Zbirnik Prac' z Občis. Mat. i Tehn.* 1 (1961), 119-124. 32 #3911

Multistage stochastic convex programming. (Russian) *Seminar: Theory of Optimal Solutions. No. 1 (Russian), pp. 48-58. Akad. Nauk Ukrain. SSR, Kiev,* 1967. (R. Theodorescu) 38 #1909

(with Donec, G. A.) An algebraic approach to the four color problem. (Russian) *Theory of Optimal Solutions (Seminar, Kiev, 1967), No. 3 (Russian), pp. 57-72. Akad. Nauk Ukrain. SSR, Kiev,* 1967. (Editors) 39 #5419

(with Ščepakin, M. B.) A problem of stochastic programming. (Russian) *Theory of Optimal Solutions (Seminar, Kiev, 1967), No. 2 (Russian), pp. 38-44. Akad. Nauk Ukrain. SSR, Kiev,* 1967. (Editors) 39 #6623

Application of generalized gradient descent in block programming. *Kibernetika (Kiev)* 1967, *no.* 3, 53-55 *(Russian); translated as Cybernetics* 3 (1967), *no.* 3, 43-45 (1970). (R. P. Tewarson) 43 #1624

(with Mihalevič, V. S.; Ermol'ev, Ju. M.; Škurba, V. V.) Complex systems and the solution of extremal problems. (Russian. English summary insert) *Kibernetika (Kiev)* 1967, *no.* 5, 29-39. (Editors) 44 #1464

(with Gorbač, G. I.) The solution of problems of scheduling type by the generalized gradient descent method. (Russian) *Theory of Optimal Solutions (Proc. Seminar, Kiev, 1968), no. 1 (Russian), pp. 59-71. Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #6611

Sorace, Orazio

Superficie Φ e congruenze W. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 34 (1963), 620-627. (H. R. Müller) 29 #3981

Intorno ad un problema sulle superficie Φ e congruenze W generalizzato. *Matematiche (Catania)* 19 (1964), 24-30. (C.-C. Hsiung) 31 #680

Transformazioni cremoniane inerenti ad una qualsiasi estensione algebrica di un campo. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 178-184. (A. Barlotti) 32 #1603

Fibrazioni proiettive legate alla rappresentazione geometrica dei nullifici di certe algebre. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 838-843. (B. Segre) 33 #6482

Sulle superficie del tipo $z = U(u)\,V(v)$ cui sono "associati" certi S_3. *Matematiche (Catania)* 20 (1965), 168-175. (C.-C. Hsiung) 33 #649

Superficie Φ e sistemi W. *Univ. e Politec. Torino Rend. Sem. Mat.* 25 (1965/66), 211-220. (D. Gallarati) 34 #8300

Piani grafici non desarguesiani e sistemi ternari di Skornyakov. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 393-397. (G. Zappa) 34 #672

Piani grafici non desarguesiani e domini naturali generalizzati. *Matematiche (Catania)* 22 (1967), 403-426. (J. Yaqub) 38 #604

Caratterizzazioni di strutture spaziali non desarguesiane. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 759-764. (M. V. D. Burmester) 40 #4857

Sistemi ternari con quasizero destro associati a piani grafici. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 158-163. (H. A. Thurston) 40 #4858

Soral, R. N.

(with Bhargava, R. D.) On improving an approximate factor of a polynomial with real coefficients by an iterative process. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 659-664. (A. S. Householder) 42 #1326

Sorani, Giorgio

Radical subrings of matrix rings. *Amer. Math. Monthly* 73 (1966), 989-991. (W. S. Martindale, III) 34 #1360

Sorani, Giuliano

Homologie des q-paires de Runge. *Ann. Scuola Norm. Sup. Pisa* (3) 17 (1963), 319-332. (R. C. Gunning) 29 #2432

(with Vaccaro, Michelangelo) Omologia a coefficienti in un fibrato. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 387-395. (A. H. Clark) 36 #5935

Sulla rappresentazione delle funzioni olomorfe. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 39 (1965), 161-166. (M. Hervé) 33 #1496

Integral representations of holomorphic functions. *Amer. J. Math.* 88 (1966), 737-746. (M. Hervé) 34 #1559

Convessità e pseudoconvessità delle varietà reali e complesse (English summary) *Riv. Mat. Univ. Parma* (2) 7 (1966), 237-241. (R. Nirenberg) 38 #3468

(with Villani, Vinicio) q-complete spaces and cohomology. *Trans. Amer. Math. Soc.* 125 (1966), 432-448. (S. Kobayashi) 34 #6154

Sui funtori omologici e coomologici. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 640-645. (P. Abellanas) 37 #1443

Sulla coomologia del C^n privato dell'origine. *Rend. Sem. Mat. Univ. Padova* 37 (1967), 234-245. (R. A. Ricabarra) 35 #4470

(with Ribenboim, P.) Cohomology and homology of pairs of presheaves. *Math. Scand.* 22 (1968), 5-16 (1969). (C. Margaglio) 40 #2738

* An introduction to real and complex manifolds. *Gordon and Breach Science Publishers, New York-London-Paris,* 1969. xiv + 198 *pp.* (R. L. Bishop) 41 #6220

Sörensen, Kay

Zum Begriff des topologischen projektiven Raumes. *Math. Z.* 109 (1969), 239-245. (K. Strambach) 39 #6164

Topologische Inzidenzgruppen. *Abh. Math. Sem. Univ. Hamburg* 35 (1970), 75-82. (K. Strambach) 43 #3906

Eine Beschreibung des kinematischen Raumes von Blaschke und Grünwald durch topologische Inzidenzgruppen. *Abh. Math. Sem. Univ. Hamburg* 35 (1970), 89-91. (K. Strambach) 43 #5403

(with Heise, Werner) Zur Definition topologischer projektiver Räume. *Arch. Math. (Basel)* 21 (1970), 218-220. (H. Salzmann) 42 #2358

Topologische affine und topologische geschlitzte Räume. *Arch. Math. (Basel)* 21 (1970), 533-536. (H. Salzmann) 43 #2604

Sørensen, Leif Hautop

(See Seminar, D. E., 40 #434)

Sorenson, H. W.

Controllability and observability of linear, stochastic, time-discrete control systems. *Advances in Control Systems, Vol. 6, pp. 95-158. Academic Press, New York,* 1968. (R. S. Bucy) 42 #4244

Comparison of some conjugate direction procedures for function minimization. *J. Franklin Inst.* 288 (1969), 421-441. (Y. Cherruault) 40 #8233

(with Sacks, J. E.) Nonlinear extensions of the fading memory filter. *IEEE Trans. Automatic Control* AC-16 (1971), 506-507. (R. N. P. Singh) 44 #7999

(with Sacks, J. E.) Recursive fading memory filtering. *Information Sci.* 3 (1971), 101-119. (D. D. Sworder) 44 #1492

Sorgenfrey, R. H.

(with Franklin, S. P.) Closed and image-closed relations. *Pacific J. Math.* 19 (1966), 433-439. (E. Michael) 34 #3550

Sorger, Peter

(with Görtler, Henry; Kirchgässner, Klaus; Velte, Waldemar) Neuere mathematische Ergebnisse zum stationären Randwertproblem der klassischen Hydrodynamik zäher Flüssigkeiten. *Nova Acta Leopoldina (N.F.)* 30 (1965), 23-40. (K. Stewartson) 41 #1281

Über ein Variationsproblem sus der nichtlinearen Stabilitatstheorie zäher, inkompressibler Strömungen. (English summary) *Z. Angew. Math. Phys.* 17 (1966), 201-216. (D. W. Dunn) 36 #1145

(with Kirchgässner, K.) Branching analysis for the Taylor problem. *Quart. J. Mech. Appl. Math.* 22 (1969), 183-209. (A. Elcrat) 40 #3789

Soriano, A.

On the problem of batch arrivals and its application to a scheduling system. *Operations Res.* 14 (1966), 398-408. (D. V. Lindley) 33 #8048

Sorimachi, Michiko

Tabulation of the build-up time of waiting line. *J. Operationa Res. Soc. Japan* 6 (1964), 119-125. (E. H. Lehman, Jr.) 31 #6291

Sorin, B.

La distribution combinatoire du nombre de différences premières positives. (English summary) *Rev. Inst. Internat. Statist.* 39 (1971), 9-20. (F. Eicker) 43 #6108

Sorkin, E. D. See Sorkinas, E.

Sorkin, Ju. I.

The definition of lattices by three axiom-identities. (Russian) *Moskov. Zaočn. Ped. Inst. Učen. Zap. Vyp.* 8 (1962), 61-66. (G. Grätzer) 41 #5254

(See also Hadley, G., 34 #4275)

Sorkinas, E.

(with Nemura, A.) Stability of selfregulating models in "line" form with weight coefficients. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR Ser. B* 1968, *no.* 1 (52), 75-84. (S. P. Bingulac) 43 #5952

(with Nemura, A.) The stability of the operation of self-adjusting models. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR Ser. B* 1968, *no.* 2 (53), 123-234. (C. Kallina) 39 #6657

(with Nemura, A.) Sufficient indications of the stability of continuous linear selfregulating models when the transfer function of the model is rational. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR. Ser. B* 1970, *no.* 1 (60), 187-201. (P. Neumann) 44 #1470

Sõrmus, I.

(with Tamme, È.) The solution of the nonstationary transport equation by the difference method. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 19 (1970), 275-285. (J. Švejda) 44 #3519

Sõrmus, T.

Theorems of Tauberian type connected with methods of Jakimovski. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 67-79. (G. Goes) 34 #534

An asymptotic problem. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 125-133. (G. Goes) 34 #1754

* (with Vainikko, G.) Harilikud diferentsiaalvõrrandid. I, II. (Estonian) [Ordinary differential equations. I, II] *Tartu Riikl. Ül., Tartu,* 1967. I: 212 *pp.*; II: 126 *pp.* (Editors) 36 #5414

The absolute summability of simple and double sequences by Hausdorff methods. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 206 (1967), 122-134. (Hubert Tietz) 42 #727

Šorohova, Z. P.

On the question of the completeness of the function system $\{z^{\lambda n}\}$ on infinite curves in the complex plane. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 188-193. (D. Mitrović) 37 #432

Soroka, V. A.

(with Lazarenko, L. A.) Sum rules from field algebra for the photoproduction of ρ^0 mesons. *Jadernaja Fiz.* 9 (1969), 623-628 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 359-361. (K. T. Mahanthappa) 40 #6868

Sorokin, A. S.

The extension of P. P. Kufarev's variational theorem to multiply connected domains. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 189 (1966), 221-231. (P. Caraman) 37 #1571

(with Aleksandrov, I. A.) On extending the variational method of G. M. Goluzin and P. P. Kufarev to a multiply connected region. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 1207-1210. (P. Caraman) 36 #1626

(with Sorokina, M. K.) Extension of L. M. Lahtin's formula to doubly connected domains. (Russian) *Kemerov. Gos. Ped. Inst. Učen. Zap. Vyp.* 11 (1968), 151-159. (V. Zmorovič (RŽMat 1969 #2 B154)) 42 #6204

Sorokin, G. A.

On the density of the set of interpolation nodes forming a triangular scheme. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 163-168. (J. T. Scheick) 35 #5820

The density of the set of interpolation nodes that form a triangular matrix and are generated by means of a continuous function. (Russian) *Saratov. Gos. Ped. Inst. Ucen. Zap. Vyp* 46 (1968), 35-40. (J. Szabados) 42 #2220

The interpolation of entire functions with nodes that form a triangular matrix. (Russian) *Saratov. Gos. Ped. Inst. Učen. Zap. Vyp.* 46 (1968), 52-56. (J. Szabados) 42 #518

A certain generalization of the Newton interpolation series. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 166-171. (A. Timan (RŽMat 1970 #2 B179)) 44 #7185

Sorokin, V. A.

Certain questions of a Minkowski geometry with a non-symmetric indicatrix. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 138-147. (Z. Nádeník) 34 #6618

On curves similar to their evolute. (Russian) *Moskov. Gos. Ped. Inst. Ucen. Zap. No.* 243 (1965), 153-159. (K. Svoboda) 34 #694

Minkowski geometry with asymmetric indicatrix. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 160-185. (K. Svoboda) 34 #718

Jung's and Blaschke's theorems for a Minkowski plane. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 145-153. (H. Busemann) 40 #6377

Classes of convex sets as generalized metric spaces. (Russian) *Mat. Zametki* 4 (1968), 45-52. (H. Busemann) 38 #2670

A formula for the number of Euler cycles of a complete graph U_n. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 6 (150), 191-192. (W. Imrich) 41 #5246

Sorokina, L. A.

Certain differential methods in the works of E. Torricelli. (Russian) *History and Methodology of Natural Sciences, No. IX: Mechanics, Mathematics (Russian), pp.* 218-226. *Izdat. Moskov. Univ., Moscow,* 1970. (A.-A. P. Youschkevitch (Juškevič)) 43 #4610

Sorokina, M. K.

(with Sorokin, A. S.) Extension of L. M. Lahtin's formula to doubly connected domains. (Russian) *Kemerov. Gos. Ped. Inst. Učen. Zap. Vyp.* 11 (1968), 151-159. (V. Zmorovič (RŽMat 1969 #2 B154)) 42 #6204

Sorokīna, N. G.

Strong solvability of the Tricomi problem. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 65-77. (O. Horáček) 34 #7985

Sós, Vera T.

(with Hanani, H.; Ornstein, D.) On the lottery problem. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 155-158. (H. B. Mann) 29 #5749

(with Kesten, H.) On two problems of Erdős, Szüsz and Turán concerning diophantine approximations. *Acta Arith.* 12 (1966/67), 183-192. (P. Szüsz) 35 #1549

(with Erdős, P.; Renyi, A.) On a problem of graph theory. *Studia Sci. Math. Hungar.* 1 (1966), 215-235. (F. Harary) 36 #6310

On extremal problems in graph theory. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 407-410. *Gordon and Breach, New York,* 1970. (Author's summary) 42 #7550

(with Erdős, P.; Méir, A.; Turán, P.) On some applications of graph theory. II. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 89-99. *Academic Press, London,* 1971. (G. O. H. Katona) 44 #3887

Sosinskiĭ, A. B.

Multidimensional knots. *Dokl. Akad. Nauk SSSR* 163 (1965), 1326-1329 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 1119-1123. (R. H. Fox) 36 #2140

Monotone open mappings of a sphere. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 170-203. (R. Duda) 30 #5282

Homotopies of complements to knots. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1258-1261. (N. Stein) 37 #919

(with Zuev, G. Ja.) On spheres containing wild zero-dimensional sets. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 3, 5-9. (M.-E. Hamstrom) 35 #7321

Decomposition of knots. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 145-158. (O. Krötenheerdt) 41 #6199

Sosinskiĭ, L. M.

On the representation of functions by irreversible superpositions in three-valued logic. (Russian) *Problemy Kibernet. No.* 12 (1964), 57-68. (V. Vučković) 34 #4125

Sosnin, V. M.

The simple group of order 168. (Russian) *Perm. Gos. Univ. Učen. Zap.* 1966, *no.* 131, 66-75. (D. L. Barnett) 39 #6975

Sosulin, Ju. G.

(with Stratonovič, R. L.) Optimal detection of a Markov process in noise. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 6, 10-22. (S. Kotz) 32 #2264

(with Stratonovič, R. L.) Optimum detection of a diffusion process in white noise. *Radiotehn. i Elektron.* 10 (1965), 827-838 *(Russian); translated as Radio Engrg. and Electron. Phys.* 10 (1965), 704-714. 32 #9128

Interpolation and extrapolation of Markov signals in presence of noise. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 5, 94-101 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 5, 86-93 (1970). (H. Salehi) 43 #4116

(with Valeev, V. G.) Multichannel reception of signals in noise when the observed data have a non-Gaussian distribution. I. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 2, 190-201 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 2, 369-379 (1971). (K. S. Miller) 44 #5165

(with Valeev, V. G.) Many-channel reception of signals in noise with non-Gaussian distributions of the observed data. II. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 4, 133-144 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 4, 737-748 (1971). (K. S. Miller) 44 #5166

Sosunov, A. S.

On the question of regularization of singular integral equations with a shift subjected to a generalized Carleman condition. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 103-111. (J. Burlak) 35 #5875

Sotak, Arthur E.

(with Cess, Robert D.) Radiation heat transfer in an absorbing medium bounded by a specular reflector. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 642-647. (J. Kestin) 31 #2975

Sotirov, Vl.

A certain set of axioms for the propositional calculus. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 133-135. (From the author's introduction) 42 #35

Sotomayor, Jorge

On the abundance of regular points for a differentiable map and submanifolds defined implicitly. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 1 (1962/63), 152-155. 29 #6498

Total stability of invariant surfaces. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 163-169. (D. Bushaw) 33 #6069

Errors in the article "On the abundance of regular points of a differentiable map". (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 189. (Editors) 32 #1720

On certain one parameter family of vector fields. *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 3 (1965), 9-19. (M. M. Peixoto) 33 #6070

Structural stability of first order and Banach varieties. (Portuguese) *Univ. Nac. Ingen. Inst. Mat. Puras. Apl. Notas Mat.* 4 (1966), 11-52. (M. M. Peixoto) 40 #6594

A note about saddle-node singular points. *Univ. Nac. Ingen. Inst. Mat. Pures Apl. Notas Mat.* 5 (1967), 133-141. (M. M. Peixoto) 40 #6595

Generic one-parameter families of vector fields on two-dimensional manifolds. *Bull. Amer. Math. Soc.* 74 (1968), 722-726. (N. P. Bhatia) 37 #6967

Sotoodehnia, A.

(with Erdmann, R. C.) On the solution of the Boltzmann transport equation in two-dimensions. *J. Math. Anal. Appl.* 31 (1970), 603-614. (A. C. Srivastava) 42 #1459

Sotskov, A. I.

Necessary conditions of the minimum for a certain type of non-smooth problems. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 261-264. (W. M. Wonham) 41 #4353

A solution of an extended system of linear equations by the incomplete matrix inversion method. (Russian) *Èkonom. i Mat. Metody* 6 (1970), 778-780. (A. Lee) 44 #1204

Šou Hao. See Hao Shou.

Soubbaramayer

Structure des chocs ionisants lents. *C. R. Acad. Sci. Paris* 258 (1964), 436-439. (W. R. Sears) 29 #1852

Structure des ondes de détonation et de combustion en magnétodynamique des fluides. *C. R. Acad. Sci. Paris* 260 (1965), 404-407. (W. R. Sears) 30 #3668

Soublin, Jean-Pierre

Médiations. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A49-A50. (R. Artzy) 34 #269a

Médiations. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A115-A117. (R. Artzy) 34 #269b

Anneaux cohérents. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A183-A186. (Author's summary) 38 #1121

Anneaux uniformément cohérents. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A205-A208. (Author's summary) 38 #1122

Un anneau cohérent dont l'anneau des polynômes n'est pas cohérent. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A241-A243. (Author's summary) 38 #1123

Conditions suffisantes pour qu'un anneau soit uniformément cohérent. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A497-A499. (Author's summary) 38 #1124

Anneaux et modules cohérents. *J. Algebra* 15 (1970), 455-472. (W. V. Vasconcelos) 41 #5422

Souček, Vladimír

The minimum existence of functional $\int_a^b F(x(t), y(t), \dot{x}(t), \dot{y}(t))dt$. *Comment. Math. Univ. Carolinae* 11 (1970), 205-225. (D. F. Lawden) 42 #5137

Souchek, Julianne

Rings of analytic functions. *Pacific J. Math.* 33 (1970), 233-240. (E. L. Stout) 41 #7133

Souchet, René

Sur la théorie de Reissner de la flexion des plaques. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A547-A550. (M. Mişicu) 36 #6180

Sur les deux problèmes fondamentaux de l'élastostatique plane avec couples de contraints. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A62-A65. (Author's summary) 39 #3744

Soucie, R. L. San. See San Soucie.

Soudack, A. C.

Some nonlinear differential equations satisfied by the Jacobian elliptic functions. *Math. Mag.* 37 (1964), 138-147. (S. Fempl) 29 #2440

Equivalence of the one-term Ritz approximation and linearization in a Chebychev sense. *Amer. Math. Monthly* 72 (1965), 148-150. (J. O. C. Ezeilo) 30 #4381

(with Barkham, P. G. D.) An extension to the method of Kryloff and Bogoliuboff. *Internat. J. Control* (1) 10 (1969), 377-392. (R. A. Struble) 40 #454

(with Rao, Sira G.) Synthesis of optimal control systems wi near sensitivity feedback. *IEEE Trans. Automatic Control* AC-16 (1971), 194-196. (Authors' summary) 44 #2517

Soudry, Gérard

(with Huynh Khanh Thanh; Lagouanelle, Jean-Louis; Nogarède, Serge) Résolution numérique d'inéquations variationnelles. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A168-A170. (M. Z. Nashed) 44 #2128

Souissi, M'hamed-Ali

Formulation d'une loi de comportement non linéaire de type intégral. Inversion de la loi et théorèmes variationnels. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1485-A1488. (Editors) 40 #1068

Soukup, Jiří

A method for finding the roots of a polynomial. *Numer. Math.* 13 (1969), 349-353. (A. S. Householder) 40 #1028

Soukup, Karel

(with Hartmann, Miroslav) Optimization in networks with mixe capacities. (Czech. English summary) *Ekonom.-Mat. Obzor* 6 (1970), 38-55. (From the authors' summary) 41 #5036

Soukup, Václav

On the analysis of linear systems with algebraic and exponential time-varying parameters. (Czech. English summary) *Kybernetika (Prague)* 5 (1969), 243-253. (Editors) 39 #3851

Soulé, J. L.

* Opérateurs linéaires dans l'espace d'Hilbert. *Gordon & Breach (distributed by Dunod Editeur), Paris-London-New York,* 1967. vii + 42 *pp.* (Editors) 41 #2418

* Linear operators in Hilbert space. *Gordon and Breach Science Publisher, New York-London-Paris,* 1968. vii + 40 *pp.* (J. B. Deeds) 41 #2419

(with Guillou, A.) La résolution numérique des problèmes différentiels aux conditions initiales par des méthodes de collocation. *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *Sér.* R-3, 17-44. (D. F. Mayers) 43 #5729

Soules, George W.

(with Marcus, Marvin) Some inequalities for combinatorial matrix functions. *J. Combinatorial Theory* 2 (1967), 145-163. (W. E. Coppage) 35 #200

(with Baum, Leonard E.; Petrie, Ted; Weiss, Norman) A maximization technique occurring in the statistical analysis of probabilistic functions of Markov chains. *Ann. Math. Statist.* 41 (1970), 164-171. (Z. Šidák) 44 #4816

Soults, Donald J.

(with David, H. T.) The distribution of 2 × *n* game values and program optima. *SIAM J. Control* 9 (1971), 135-141. (Y. I. Kannai) 43 #8391

Soundararajan, T.

(with Venkataraman, M.) On the completeness of Galois theories. *J. Austral. Math. Soc.* 5 (1965), 374-379. (H. Schwerdtfeger) 32 #5647

Normal subfields of simple extension fields. *Monatsh. Math.* 69 (1965), 256-268. (K. Masuda) 32 #106

A covering theorem for fields. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 133-135. (E. R. Kolchin) 30 #3089

A topology for extension fields and Galois theory. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 136-140. (E. R. Kolchin) 30 #3090

Completeness of Galois theories. *Indian J. Math.* 8 (1966), 11-14. (H. Schwerdtfeger) 35 #2870

Completeness of Galois theories. II. *J. Indian Math. Soc. (N.S.)* 30 (1966), 69-72 (1967). (H. Schwerdtfeger) 36 #2602

(with Rajagopalan, M.) On self dual L C A groups. *Bull. Amer. Math. Soc.* 73 (1967), 985-986. (K. A. Ross) 36 #614

(with Venkataraman, M.) The field structure of the real number system. *J. Austral. Math. Soc.* 7 (1967), 258-262. (J. L. Zemmer) 35 #5427

Complétude des théories de Galois. IV. *Bull. Sci. Math.* (2) 93 (1969), 157-161. (H. Schwerdtfeger) 41 #5332

(with Rajagopalan, M.) Structure of self-dual torsion-free metric LCA groups. *Fund. Math.* 65 (1969), 309-316. (K. A. Ross) 40 #643

A note on classical Galois theory. *Math. Ann.* 182 (1969), 275-280. (S. Yuan) 40 #1373

A covering theorem for skew fields. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 441-442. (D. C. Murdoch) 40 #4298

The topological group of the *p*-adic integers. *Publ. Math. Debrecen* 16 (1969), 75-78. (I. Schochetman) 41 #8578

Galois theory for general extension fields. *J. Reine Angew. Math.* 241 (1970), 49-63. (N. Sankaran) 41 #6821

(with Venkatachaliengar, K.) Topologies for Galois groups of extension fields. *J. Reine Angew. Math.* 242 (1970), 1-7. (N. Sankaran) 42 #4528

Weakly Hausdorff spaces and the cardinality of topological spaces. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur,* 1968*), pp.* 301-306. *Academia, Prague,* 1971. (R. M. Stephenson, Jr.) 44 #976

(with Venkatachaliengar, K.) On the Krull Galois theory for non-algebraic extension fields. *Bull. Austral. Math. Soc.* 4 (1971), 367-387. (M. Fried) 43 #4800

Souprounenko, D. See Suprunenko, Dmitriĭ Alekseevič.

Souriac, P.

Semi-stabilisation de problèmes mal posés pour des opérateurs d'ordre élevé. (Loose English summary) *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *no.* 16, 45-63. (Author's summary) 39 #6528

Souriau, Jean-Marie

Relativité multidimensionnelle non stationnaire. *Les théories relativistes de la gravitation (Royaumont,* 1959*), pp.* 293-297. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2063

* Géométrie et relativité. Enseignement des Sciences, VI. *Hermann, Paris,* 1964. 511 *pp.* (R. H. Boyer) 30 #2898

* Calcul linéaire, Tome I. Deuxième édition. "Euclide". Introduction aux Études Scientifiques. *Presses Universitaires de France, Paris,* 1964. xix + 259 *pp.* (R. A. Rosenbaum) 31 #186

* Calcul linéaire. Tome II. "Euclide". Introduction aux Études Scientifiques. *Presses Universitaires de France, Paris,* 1965. xv + 263 *pp.* (R. A. Rosenbaum) 31 #185

Prolongements du champ de Schwarzschild. *Bull. Soc. Math. France* 93 (1965), 193-207. (C. W. Misner) 33 #2374

Quantification géométrique. (English summary) *Comm. Math. Phys.* 1 (1965/66), 374-398. (H. Araki) 34 #7148

Quantification géométrique. Applications. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 6 (1967), 311-341. (H. Araki) 36 #2369

* Structure des systèmes dynamiques. Maîtrises de mathématiques. *Dunod, Paris,* 1970. xxxii + 414 *pp.* (J. R. Vanstone) 41 #4866

Mécanique relativiste des fils. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A731-A732. (N. D. Sengupta) 41 #3064

Sourour, A. R.

(with Ashour, A. A.) Fourier expansions of functions of the distance between two points. *J. Mathematical Phys.* 11 (1970), 56-60. (R. P. Soni) 40 #7500

Soury, Pierre

(with Léger, Christian) Le convexe topologique des probabilités sur un espace topologique. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A516-A519. (R. M. Dudley) 41 #4595

de Sousa, J.

Disjoint common transversals. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford,* 1969*), pp.* 87-94. *Academic Press, London,* 1971. (R. A. Brualdi) 44 #1582

Sousa, Maria de Fátima Fontes. See de Fátima Fontes de Sousa, Maria.

Southworth, Raymond W.

* (with DeLeeuw, Samuel L.) Digital computation and numerical methods. *McGraw-Hill Book Co., New York-Toronto-London,* 1965. xiv + 508 *pp.* (W. Sangren (CR 7 #8758)) 32 #1870

e Souza, Celso de Renna. See de Renna e Souza, Celso.

Souza, Jayme Rios de. See Rios de Souza, Jayme.

deSouza, P. D. See DeSouza, P. D.

Souza Ávila, Geraldo Severo de. See Ávila, Geraldo Severo de Souza.

Sova, Miroslav

The general theory of differentiability in linear topological spaces. (Russian. English summary) *Czechoslovak Math. J.* 14(89) (1964), 485-508. (B. R. Gelbaum) 30 #2320

Continuity of semigroups of operators in general operator topologies. (Russian. French summary) *Czechoslovak Math. J.* 16(91) (1966), 315-338. (I. Kovács) 34 #3346

Conditions for differentiability in linear topological spaces. (Russian. English summary) *Czechoslovak Math. J.* 16(91) (1966), 339-362. (B. R. Gelbaum) 33 #6356

Cosine operator functions. *Rozprawy Mat.* 49 (1966), 47 *pp.* (J. Gil de Lamadrid) 33 #1745

Primitiveness of functions in linear topological spaces. (Russian. Loose English summary) *Czechoslovak Math. J.* 17(92) (1967), 471-481. (E. Durszt) 37 #729

Convergence d'opérations linéaires non bornées. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 373-389. (J. Gil de Lamadrid) 36 #6978

Problème de Cauchy pour équations hyperboliques opérationnelles à coefficients constants non-bornés. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 67-100. (J. Prouse) 38 #437

Unicité des solutions exponentielles des équations différentielles opérationnelles linéaires. *Boll. Un. Mat. Ital.* (4) 1 (1968), 629-699. (J. E. Lagnese) 39 #594

Solutions périodiques des équations différentielles opérationnelles: La méthode des développements de Fourier. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 386-421, 480. (M. Bertolino) 40 #1686

Semigroups and cosine functions of normal operators in Hilbert spaces. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 437-458, 480. (J. Gil de Lamadrid) 40 #3361

Nichtnegative Skalaroperatoren. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 105-118. (I. K. Marek) 40 #3342

Équations différentielles opérationelles linéaires du second ordre à coefficients constants. (Czech summary) *Rozpravy Československé Akad. Věd. Řada Mat. Přírod. Věd* 80 (1970), *sešit* 7, 69 *pp.* (J. E. Lagnese) 43 #7804

Sovin, Ja. A.

Elliptic boundary value problems for plane regions, with angles and discontinuities occurring on the boundary. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 995-997. (R. Beals) 40 #6062

General boundary value problems for quasiparabolic systems in closed domains. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 329-333, 382. (A. M. Abasov) 44 #642

Boundary value problems in domains with conical points, and plane boundary value probelms for systems with discontinuities. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 426-429, 477. (V. V. Barkovskiĭ) 43 #5155

Sowden, R. R.

(with Ashford, J. R.) Computation of the bi-variate normal integral. *J. Roy. Statist. Soc. Ser. C Appl. Statist.* 18 (1969), 169-180. (Authors' summary) 40 #953

Sowerby, L.

The three-dimensional laminar boundary layer on a flat plate. *J. Fluid Mech.* 22 (1965), 587-598. (J. C. Cooke) 31 #5410

Sowiński, Janusz

(with Radziszewski, Konstanty) Quelques remarques sur les plans osculateurs orientés. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 18 (1964), 105-113 (1967). (T. J. Willmore) 38 #6524

Sur la congruence des surfaces dans l'espace équiaffine. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 19 (1965), 81-85 (1970). (H. R. Müller) 41 #6082

Sowunmi, C. O. A.

On a 'direct' method of proof of continuous differentiability of an extremal of a quadratic functional, relative to a parameter. *J. Math. Anal. Appl.* 28 (1969), 174-180. (R. D. Moyer) 39 #7263

On the multiplicity of solutions of an equation of nonlinear elasticity. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Tech.* 18 (1970), 549-552. (R. L. Fosdick) 43 #1499

Analyticity of the coefficient dependence of the critical points of non-linear analytic functionals. *J. Math. Anal. Appl.* 34 (1971), 157-165. (M. Z. Nashed) 43 #5370

Sox, J. L., Jr.

(with Harrington, W. J.) Some orthogonal functions which are linear combinations of square-wave functions. *J. Franklin Inst.* 288 (1969), 43-48. (Authors' summary) 40 #4664

(with Harrington, W. J.) A class of complete orthogonal sequences of periodic functions. *SIAM J. Math. Anal.* 2 (1971), 458-466. (H. R. Pousson) 44 #5698

(with Harrington, W. J.) A class of complete orthogonal sequences of step functions. *Trans. Amer. Math. Soc.* 157 (1971), 129-135. (R. Liedl) 43 #804

Soysal, Selma

Sur une généralisation de la notion de fonction caractéristique de la théorie des matrices finies à certaines transformations linéaires dans l'espace de Hilbert. (Turkish summary) *Istanbul Tek. Üniv. Bül.* 19 (1966), *no.* 1, 10-30. (S. Goldberg) 37 #2028

Sur une transformation linéaire dans l'espace hilbertien. (Turkish summary) *Istanbul Tek. Üniv. Bül.* 20 (1967), *no.* 1, 1-16. (T. Husain) 36 #5723

Sozańska-Bień, Zofia

Some properties of *m*-address machines. (Polish and Russian summaries) *Studia Logica* 26 (1970), 19-34. (A. L. Rosenberg) 44 #1521

Sozonov, Ju. I.

(with Gurariĭ, N. I.) Normed spaces that do not have distortion of the unit sphere. (Russian) *Mat. Zametki* 7 (1970), 307-310. (E. Asplund) 41 #8971

Sozou, C.

A two-dimensional dipole under a uniform plasma pressure. *Quart. J. Mech. Appl. Math.* 17 (1964), 247-252. (Author's summary) 29 #880

Špaček, Ladislav

(with Růžička, M.) Über ein gewisses System von Lösungen der Tricomischen Gleichung. *Sympos. Transsonicum (IUTAM, Aachen, Sept. 1962), pp.* 86-88. *Springer-Verlag, Berlin,* 1964. 33 #4484

(See also Polášek, Jan, 40 #4068)

Spaey, F.

Characteristic points, Segre- and Predella-characteristics of a projectivity. (Dutch) *Simon Stevin* 44 (1970/71), 21-35. (F. Bachmann) 43 #5394

On the centers of induced perspectivities of a projectivity. (Dutch) *Simon Stevin* 44 (1970/71), 66-72. (F. Bachmann) 43 #5395

Spagnolo, Sergio

(with Mantovani, F.) Funzionali analitici reali e funzioni armoniche. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 475-513. (J. L. Lions) 30 #5155

Alcune osservazioni su certe famiglie di limitati di uno spazio lineare. *Boll. Un. Mat. Ital.* (3) 21 (1966), 285-291. (B. Fishel) 37 #3309

Sul limite delle soluzioni di problemi di Cauchy relativi all'equazione del calore. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 657-699. (R. Guenther) 37 #612

Una caratterizzazione degli operatori differenziali autoaggiunti del 2° ordine a coefficienti misurabili e limitati. *Rend. Sem. Mat. Univ. Padova* 39 (1967), 56-64. (P. Grisvard) 38 #3738

Sulla convergenza di soluzioni di equazioni paraboliche ed ellittiche. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 571-597; *errata, ibid.* (3) 22 (1968), 673. (L. von Wolfersdorf) 39 #1791

(with Marino, Antonio) Una nota sul lemma di Sard in infinite dimensioni. (English summary) *Boll. Un. Mat. Ital.* (4) 1 (1968), 753-759. (C. M. de Barros) 39 #6361

(with Marino, A.) Un tipo di approssimazione dell'operatore $\sum_{ij=1}^{n} D_i(a_{ij}(x)D_j)$ con operatori $\sum_{j=1}^{n} D_j(\beta(x)D_j)$. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 657-673. (P. Grisvard) 43 #3859

Spain, Barry

* Vector analysis. *D. Van Nostrand Co. Ltd., London-Toronto-New York,* 1965. ix + 114 *pp.* (A. Nijenhuis) 32 #1300

Spain, J.

(with Williams, M. M. R.) Space-eigenvalue problems in the kinetic theory of gases. *J. Fluid Mech.* 42 (1970), 85-95. (S. Harris) 44 #5060

Spain, P. G.

On commutative V^*-algebras. *Proc. Edinburgh Math. Soc.* (2) 17 (1970/71), 173-180. (T. W. Palmer) 44 #2045

On scalar-type spectral operators. *Proc. Cambridge Philos. Soc.* 69 (1971), 409-410. (E. Berkson) 44 #7338

(with Dowson, H. R.) An example in the theory of well-bounded operators. *Proc. Amer. Math. Soc.* 32 (1972), 205-208. (S. R. Caradus) 44 #5811

Špak, G. S.

A method for obtaining estimates of functions taking given values at prescribed points. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 127-136. (Z. Lewandowski) 30 #1239

Spal, Jindřich

Algebraic approach of the root-loci method. (Czech summary) *Kybernetika (Prague)* 6 (1970), 363-381. (M. Marden) 43 #7235

Spalińska, H.

Quasi-minimal sets. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 213-218. (T.-S. Wu) 41 #1029

Spallek, Karlheinz

Tensorielle Beschränkungen analytischer Garben. *Math. Z.* 84 (1964), 448-463. (H. Röhrl) 29 #4913

Differenzierbare und holomorphe Funktionen auf analytischen Mengen. *Math. Ann.* 161 (1965), 143-162. (H. Röhrl) 33 #4328

Über Singularitäten analytischer Mengen. *Math. Ann.* 172 (1967), 249-268. (H. Röhrl) 37 #6483

Ein Hebbarkeitssatz in der Algebra. *Math. Ann.* 173 (1967), 1-23. (H. Röhrl) 37 #5205

Differenzierbare Kurven auf analytischen Mengen. *Math. Ann.* 177 (1968), 54-66. (M. Herrera) 37 #3588

Zum Satz von Osgood und Hartogs für analytische Moduln. I. *Math. Ann.* 178 (1968), 83-118. (Gerd Fischer) 38 #345

Differenzierbare Räume. *Math. Ann.* 180 (1969), 269-296. (S. Hitotumatu) 41 #5655

Zum Satz von Osgood und Hartogs für analytische Moduln. II. *Math. Ann.* 182 (1969), 77-94. (Gerd Fischer) 40 #2904

(See also Behnke, H.; Thullen, P., 42 #6274)

Glättung differenzierbarer Räume. *Math. Ann.* 186 (1970), 233-248. (S. Hitotumatu) 41 #4566

Spang, H. A., III

Optimum control of an unknown linear plant using Bayesian estimation of the error. *IEEE Trans. Automatic Control* AC-10 (1965), 80-83. (R. S. Bucy) 31 #4689

Spangher, Walter

Considerazioni critiche e principali teoremi sulla estensione ad anelli non commutativi della nozione di elemento integrale. (English summary) *Rend. Ist. Mat. Univ. Trieste* 2 (1970), 1-30. (W. E. Jenner) 43 #249

Spanicciati, Renata

Gruppi con multioperatori. *Boll. Un. Mat. Ital.* (4) 1 (1968) 736-745. (H. Lausch) 39 #2688

Spanier, Edwin H.

(with Ginsburg, Seymour) Distinguishability of a semi-group by a machine. *Proc. Amer. Math. Soc.* 12 (1961), 661-668. (V. M. Gluškov (RŽMat 1962 #3 A62)) 31 #1312

(with Ginsburg, Seymour) Quotients of context-free languages *J. Assoc. Comput. Mach.* 10 (1963), 487-492. (Walter Oberschelp) 29 #1108

(with Ginsburg, Seymour) Bounded ALGOL-like languages. *Trans. Amer. Math. Soc.* 113 (1964), 333-368. (Walter Oberschelp) 31 #5729

(with Ginsburg, Seymour) Mappings of languages by two-tape devices. *J. Assoc. Comput. Mach.* 12 (1965), 423-434. (A. P. Ershov) 32 #4883

* Algebraic topology. *McGraw-Hill Book Co., New York-Toronto, Ont.-London,* 1966. xiv + 528 *pp.* (S.-T. Hu) 35 #1007

Duality in topological manifolds. *Colloque de Topologie (Brussels, 1964), pp.* 91-111. *Librairie Universitaire, Louvain,* 1966. (R. F. Williams) 36 #3363

(with Ginsburg, Seymour) Semigroups, Presburger formulas, and languages. *Pacific J. Math.* 16 (1966), 285-296. (J.-F. Perrot) 32 #9172

(with Ginsburg, Seymour) Bounded regular sets. *Proc. Amer. Math. Soc.* 17 (1966), 1043-1049. (J. Florentin) 34 #1194

(with Ginsburg, Seymour) Finite-turn pushdown automata. *SIAM J. Control* 4 (1966), 429-453. (A. L. Rosenberg) 34 #4138

The homotopy excision theorem. *Michigan Math. J.* 14 (1967), 245-255. (E. H. Brown) 34 #6771

(with Ginsburg, Seymour) Derivation-bounded lnaguages. *J. Comput. System Sci.* 2 (1968), 228-250. (A. J. Korenjak) 39 #2546

(with Ginsburg, Seymour) Control sets on grammars. *Math. Systems Theory* 2 (1968), 159-177. (J. Friedman) 38 #4237

(with Kelley, J. L.) Euler characteristics. *Pacific J. Math.* 26 (1968), 317-339. (A. K. Bousfield) 41 #5463

Grammars and languages. *Amer. Math. Monthly* 76 (1969), 335-342. (S. Ginsburg) 39 #2550

(with Baer, R. M.) Referenced automata and metaregular families. *J. Comput. System Sci.* 3 (1969), 423-446. (J. Hartmanis 41 #3182

(with Holm, P.) Compact perturbations and degree theory. The Steenrod Algebra and its Applications (Proc. Conf. to Celebrate N. E. Steenrod's Sixtieth Birthday, Battelle Memorial Inst., Columbus, Ohio, 1970), pp. 75-89. Lecture Notes in Mathematics, Vol. 168. *Springer, Berlin,* 1970. (R. Ramer) 43 #5558

(with Ginsburg, Seymour) Substitution in families of languages. *Information Sci.* 2 (1970), 83-110. (R. E. Stearns) 42 #1615

(with Holm, P.) Involutions and Fredholm maps. *Topology* 10 (1971), 203-218. (A. Tromba) 44 #7591

Spanier, Jerome

(with Kellogg, R. B.) On optimal alternating direction parameters for singular matrices. *Math. Comp.* 19 (1965), 448-452. (L. M. Delves) 32 #1914

(with Gelbard, E. M.; Ondis, L. A., II) A new class of Monte Carlo estimators. *SIAM J. Appl. Math.* 14 (1966), 697-701. (D. J. Evans) 35 #1177

Two pairs of families of estimators for transport problems. *SIAM J. Appl. Math.* 14 (1966), 702-713. (D. J. Evans) 35 #6332

Some results on transport theory and their application to Monte Carlo methods. *J. Math. Anal. Appl.* 17 (1967), 549-559. (W. Sangren) 34 #8780

(with Hall, C. A.) Nested bounds for the spectral radius. *SIAM J. Numer. Anal.* 5 (1968), 113-125. (W. M. Kincaid) 37 #1070

* (with Gelbard, Ely M.) Monte Carlo principles and neutron transport problems. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1969. xiv + 234 *pp.* (E. H. Bareiss) 42 #7220

An analytic approach to variance reduction. *SIAM J. Appl. Math.* 18 (1970), 172-190. (M. Muller) 43 #4174

Spaniol, O.

Die Distributivität in der Intervallarithmetik. (English summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 6-16. (Author's summary) 41 #4857

Spanne, Sven

A generalization of a Tauberian theorem by Pleijel. *Ark. Mat.* 5, 311-315 (1963/65). (L. Berg (Zbl 134, 103)) 36 #1878

Some function spaces defined using the mean oscillation over cubes. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 593-608. (L. C. Young) 32 #8140

Sur l'interpolation entre las espaces $\mathcal{L}^{p\Phi}_{k}$. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 625-648. (M. Cotlar) 35 #728

Sur le principe de maximum et le théorème de Fatou pour les solutions des équations elliptiques d'ordre quelconque. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1407-A1410. (A. Martineau) 34 #7961

Propriétés des développements en fonctions propres des opérateurs elliptiques et des solutions d'un problème de Dirichlet. *C. R. Acad. Sci. Paris Ser. A - B* 264 (1967), A823-A825. (Author's summary) 38 #6235

parac, Dimitrije Ugrin. See Ugrin-Šparac, Dimitrije.

parks, Arthur G.

Intersections of maximal L_n sets. *Proc. Amer. Math. Soc.* 24 (1970), 245-250. (D. G. Larman) 40 #6368

Characterizations of the generalized convex kernel. *Proc. Amer. Math. Soc.* 27 (1971), 563-565. (D. G. Larman) 43 #5413

parks, M.

Upper and lower bounds of eigenvalues: Mode-clamping theorems. *Quart. Appl. Math.* 28 (1970/71), 103-109. (H. H. Goldstine) 41 #9433

paro, D. I.

Principle of the lower envelope in discrete potential theory. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 279-288. (D. J. Patil and L. C. Young) 34 #364

Discrete potential theory. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1400-1411. (J. L. Doob) 34 #4529

Principles of potential theory and Markov chains. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 472-482. (J. L. Snell) 34 #3663

The Martin boundary for a portion of a Markov chain. (Russian) *Mat. Zametki* 3 (1968), 92-102. (G. E. Denzel) 37 #2325

Some ways of completing the phase space of a Markov chain. (Russian. French summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 341-344. (F. L. Spitzer) 38 #777

parrow, E. M.

(with Eckert, E. R. G.) Nonlinear problems of combined conductive-radiative heat transfer. *Nonlinear Problems of Engineering, pp.* 104-122. *Academic Press, New York,* 1964. (W. H. Dorrance) 30 #1741

(with Goldstein, R. J.; Jonsson, V. K.) Thermal instability in a horizontal fluid layer: Effect of boundary conditions and non-linear temperature profile. *J. Fluid Mech.* 18 (1964), 513-528. (W. R. Debler) 32 #4983

(with Munro, W. D.; Jonsson, V. K.) Instability of the flow between rotating cylinders: The wide-gap problem. *J. Fluid Mech.* 20 (1964), 35-46. (D. W. Dunn) 29 #6738

(with Lin, S. H.; Lundgren, T. S.) Flow development in the hydrodynamic entrance region of tubes and ducts. *Phys. Fluids* 7 (1964), 338-347. (J. H. Giese) 29 #6731

(with Haji-Sheikh, A.; Lundgren, T. S.) The inverse problem in transient heat conduction. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 369-375. (B. A. Boley) 29 #4417

On the onset of flow instability in a curved channel of arbitrary height. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 638-642. (W. O. Criminale, Jr.) 31 #4292

(with Lin, S. H.) Hydrodynamic stability of a tangential flow between cylinders induced by rotation and external pumping. *Phys. Fluids* 8 (1965), 229-234. (R. C. DiPrima) 32 #8633

(with Haji-Sheikh, A.) The floating random walk and its application to Monte Carlo solutions of heat equations. *SIAM J. Appl. Math.* 14 (1966), 370-389. (J. Spanier) 34 #5255

(with Joseph, D. D.) Nonlinear diffusion induced by non-linear sources. *Quart. Appl. Math.* 28 (1970), 327-342. (Hirsch Cohen) 42 #7153

Sparrow, Frederick T.

(with Dafermos, Stella C.) The traffic assignment problem for a general network. *J. Res. Nat. Bur. Standards Sect. B* 73B (1969), 91-118. (Authors' summary) 40 #1194

Sparzani, A.

(with Loinger, A.) Dirac equation without Dirac matrices. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 1140-1145. (Harry E. Moses) 33 #988

(with Parravicini, G.) Canonical and manifestly covariant descriptions of particles with any spin. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 579-605. (M. L. Whippman) 41 #4932

Späth, Helmut

Exponential spline interpolation. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 225-233. (J. W. Jerome) 40 #2216

* Die numerische Berechnung von interpolierenden Spline-Funktionen mit Blockunterrelaxation. Zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften von der Fakultät für Naturwissenschaften I der Universität (TH) Karlsruhe genehmigte Dissertation. *Universität (TH) Karlsruhe, Karlsruhe,* 1969. iii + 55 *pp.* (G. Maeß) 42 #8659

Spatz, I. N.

Smooth Banach algebras. *Proc. Amer. Math. Soc.* 22 (1969), 328-329. (F. F. Bonsall) 39 #6079

Spatzek, Werner

* Über Potential von Flächenbelegungen höherer Ordnung. Von der Fakultät für Allgeneine Wissenschaften der Rheinisch-Westfälischen Technischen Hochschule Aachen zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften genehmigte Dissertation. *Dissertation, Aachen,* 1964. iii + 69 *pp.* (R. E. Williamson) 36 #411

deSpautz, Joseph F.

(with Lerman, Robert A.) Equations equivalent to nonlinear differential equations. *Proc. Amer. Math. Soc.* 18 (1967), 441-444. (E. Pinney) 35 #1850

(with Lerman, Robert A.) Nonlinear differential equations and the terrestrial brachistochrone. *AIAA J.* 7 (1969), 1173-1174. (H. E. Fettis) 39 #7181

Speakman, Jane M. O.

Some problems relating to Markov groups. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part* 2, *pp.* 175-186. *Univ. California Press, Berkeley, Calif.,* 1967. (J. F. C. Kingman) 35 #7415b

A note on Markov semigroups which are compact for some but not all $t > 0$. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66*), Vol. II: Contributions to Probability Theory, Part* 2, *pp.* 197-199. *Univ. California Press, Berkeley, Calif.,* 1967. (J. G. Wendel) 36 #7212c

An algebraic characterisation of convergence ideals. *Bull. Amer. Math. Soc.* 73 (1967), 53-54. (N. G. de Bruijn) 35 #617

Two Markov chains with a common skeleton. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 224. (From the author's introduction) 35 #3745

Spears, Nina

(with Maxfield, John E.) Further examples of normal numbers. *Publ. Math. Debrecen* 16 (1969), 119-127. (I. Danicic) 42 #3016

A simplified proof of Chebyshev's theorem. *Duke Math. J.* 37 (1970), 709-713. (E. M. Horadam) 42 #3033

Spears, W. T.

A generalization of the Stone-Weierstrass theorem to multi-valued functions. *J. Natur. Sci. and Math.* 9 (1969), 201-208. (P. T. Church) 43 #5503

Specht, Walter A., Jr.

Modes in spherical-mirror resonators. *J. Appl. Phys.* 36 (1965), 1306-1313. (J. H. Harris) 32 #5022

Speck, G. P.

Dimension under analytic maps. *Math. Mag.* 42 (1969), 91-93. (M. L. Marx) 39 #3005

Elementary transcendental functions. *Math. Mag.* 42 (1969), 200-203. (F. Brooks) 40 #2794

Specker, Ernst P.

(with Gaifman, Haim) Isomorphism types of trees. *Proc. Amer. Math. Soc.* 15 (1964), 1-7. (Đ. Kurepa) 29 #5746

(with Kochen, Simon) Logical structures arising in quantum theory. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 177-189. *North-Holland, Amsterdam,* 1965. (J. M. Cook) 34 #5409

(with Kochen, Simon) The calculus of partial propositional functions. *Logic, Methodology and Philos. Sci. (Proc.* 1964 *Internat. Congr.), pp.* 45-57. *North-Holland, Amsterdam,* 1965. (M. Makkal) 34 #7335

(with Kochen, Simon) The problem of hidden variables in quantum mechanics. *J. Math. Mech.* 17 (1967), 59-87. (J. M. Cook) 36 #2363

(with Hodes, L.) Lengths of formulas and elimination of quantifiers. I. *Contributions to Math. Logic (Colloquium, Hannover,* 1966*), pp.* 175-188. *North-Holland, Amsterdam,* 1968. (N. C. A. da Costa) 39 #32

The fundamental theorem of algebra in recursive analysis. *Constructive Aspects of the Fundamental Theorem of Algebra (Proc. Sympos., Zürich-Rüschlikon,* 1967*), pp.* 321-329. *Wiley-Interscience, New York,* 1969. (R. L. Goodstein) 41 #1536

Ramsey's theorem does not hold in recursive set theory. *Logic Colloquium* '69 *(Proc. Summer School and Colloq., Manchester,* 1969*), pp.* 439-442. *North-Holland, Amsterdam,* 1971. (James D. Halpern) 43 #4667

Speckman, Janace A.

Determinations based on duplication of readings. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 49-53. (Author's summary) 29 #1694

(with Cornell, Richard G.) Estimation for a one-parameter exponential model. *J. Amer. Statist. Assoc.* 60 (1965), 560-572. (S. S. Gupta) 33 #810

(with Cornell, Richard G.) Estimation for a simple exponential model. (French summary) *Biometrics* 23 (1967), 717-737. (From the authors' summary) 36 #3436

Spector, Clifford

(with Feferman, S.) Incompleteness along paths in progressions of theories. *J. Symbolic Logic* 27 (1962), 383-390. (J. R. Shoenfield) 30 #3012

Spector, René

Espaces de mesures et de fonctions invariants par les isomorphismes locaux de groupes abéliens localement compacts. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 325-343. (C. S. Herz) 32 #8049

Caractérisation des espaces compacts par certains semi-groupes de fonctions continues. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1396-A1399. (T.-S. Wu) 33 #7984

Sur un invariant de la structure locale des groupes abéliens localement compacts. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A729-A731. (E. Thoma) 40 #6178

Sur les germes de morphismes des groupes abéliens localement compacts. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A772-A774. (E. Thoma) 40 #6179

Groupes localement isomorphes et transformation de Fourier avec poids. (English summary) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 1, 195-217, x. (R. Doss) 40 #7727

Transformées de Fourier radiales sur les groupes abéliens localement compacts totalement discontinus. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A514-A516. (Y. Domar) 40 #4686

Caractérisation des groupes abéliens localement compacts totalement discontinus par certaines algèbres de germes de fonctions. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A580-A582. (Y. Domar) 40 #4687

(with Peyrière, Jacques) Sur les multiplicateurs radiaux de $\mathcal{F}L^p(G)$, pour un groupe abélien localement compact totalement discontinu. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A973-A974. (Y. Domar) 41 #736

Sur la structure locale des groupes abéliens localement compacts. *Bull. Soc. Math. France Suppl. Mém.* 24 (1970), 94 pp. (G. I. Gaudry) 44 #729

Spector, Richard M.

Exact solution of the Schrödinger equation for inverse fourth-power potential. *J. Mathematical Phys.* 5 (1964), 1185-1189. (E. Predazzi) 29 #4452

(with Aly, H. H.) Some solvable potentials for the Schrödinger equation. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 149-152. (D. B. Fairlie) 33 #5241

Speed, T. P.

On rings of sets. *J. Austral. Math. Soc.* 8 (1968), 723-730. (Ph. Dwinger) 39 #105

A note on commutative semigroups. *J. Austral. Math. Soc.* 8 (1968), 731-736. (Ph. Dwinger) 39 #106

Two congruences on distributive lattices. (French summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 86-95. (E. T. Schmidt) 39 #6797

Spaces of ideals of distributive lattices. I. Prime ideals. (French summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 610-628. (K. A. Baker) 42 #154

Some remarks on a class of distributive lattices. *J. Austral. Math. Soc.* 9 (1969), 289-296. (P. Crawley) 40 #69

On Stone lattices. *J. Austral. Math. Soc.* 9 (1969), 297-307. (P. Crawley) 40 #70

A note on commutative semigroups. II. *J. London Math. Soc.* (2) 2 (1970), 80-82. (Ph. Dwinger) 41 #1907

(with Strzelecki, E.) A note on commutative l-groups. *J. Austral. Math. Soc.* 12 (1971), 69-74. (P. F. Conrad) 43 #3191

Speer, Eugene R.

* Generalized Feynman amplitudes. Annals of Mathematics Studies, No. 62. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo,* 1969. vi + 120 pp. (P. Roman) 39 #2422

(with Ponzano, G.; Regge, T.; Westwater, M. J.) The monodromy rings of a class of self-energy graphs. *Comm. Math. Phys.* 15 (1969), 83-132. (R. L. Ingraham) 40 #6875

(with Ponzano, G.; Regge, T.; Westwater, M. J.) The monodromy rings of one loop Feynman integrals. *Comm. Math. Phys.* 18 (1970), 1-64. (R. L. Ingraham) 42 #2749

(with Westwater, M. J.) Generic Feynman amplitudes. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 1-55. (J. E. Marsden) 44 #1325

On the structure of analytic renormalization. *Comm. Math. Phys.* 23 (1971), 23-36. (Author's summary) 44 #5045

Speers, Richard

Jordan structures in simple graded rings. *Proc. Amer. Math. Soc.* 24 (1970), 22-23. (W. E. Baxter) 40 #4289

Lie structures in simple graded rings. *Duke Math. J.* 38 (1971), 81-92. (W. E. Baxter) 42 #6035

Spehner, Jean-Claude

Éléments associateurs et éléments hyper-associateurs d'un groupoïde. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A500-A503. (Author's summary) 36 #5254

Sur la structure des groupoïdes contenant des associateurs à gauche et à droite. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A521-A523. (D. A. Robinson) 38 #1203

Sur les groupoïdes partiels librement engendrés par un groupoïde partiel. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A531-A533. (Author's summary) 38 #1204

Groupoïdes partiels libres et produits libres de groupoïdes partiels. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1005-A1007. (Author's summary) 39 #2902

Speiser, Andreas

(See Euler, Leonard, 37 #1218)

Un ornamento non euclideo. *Ann. Mat. Pura Appl.* (4) 54 (1961), 227-229. (1 *plate*) (Editors) 31 #651

(See Euler, Leonard, 34 #1142)

Speiser, David R.

(with Misra, B.; Targonski, G.) Integral operators in the theory of scattering. *Helv. Phys. Acta* 36 (1963), 963-980. (S. T. Kuroda) 29 #922

Theory of compact Lie groups and some applications to elementary particle physics. *Group theoretical concepts and methods in elementary particle physics (Lectures Istanbul Summer School Theoret. Phys., 1962), pp. 201-276. Gordon and Breach, New York,* 1964. (P. Roman) 30 #1783

(with Antoine, J.-P.) Characters of irreducible representations of the simple groups. I. General theory. *J. Mathematical Phys.* 5 (1964), 1226-1234. (A. Kleppner) 29 #5957a

(with Antoine, J.-P.) Characters of irreducible representations of the simple groups. II. Application to classical groups. *J. Mathematical Phys.* 5 (1964), 1560-1572. (A. Kleppner) 29 #5957b

(with Oakes, R. J.) SU(4) mass formula. *Phys. Rev. Lett.* 13 (1964), 579-581. (R. L. Warnock) 31 #1985

Fundamental representations of Lie groups. *Helv. Phys. Acta* 38 (1965), 73-97. (R. Keown) 31 #1970

(with Antoine, J.-P.; Oakes, R. J.) SU_4 mass formula and paritcle classification schemes. *Phys. Rev.* (2) 141 (1966), 1542-1553. (P. Tarjanne) 33 #3657

(with Pietenpol, J. L.) Simple procedure for determining the number of components of an irreducible tensor. *J. Mathematical Phys.* 12 (1971), 1-4. (J.-P. Antoine) 44 #5022

Spellmann, J. W.

Concerning the infinite differentiability of semigroup motions. *Pacific J. Math.* 30 (1969), 519-523. (E. Giusti) 40 #3360

Concerning the domains of generators of linear semigroups. *Pacific J. Math.* 35 (1970), 503-509. (A. B. Buche) 43 #3851

Spence, D. A.

(with Woods, B. A.) A review of theoretical treatments of shock-tube attenuation. *J. Fluid Mech.* 19 (1964), 161-174. (H. M. Sternberg) 29 #4382

The flow past a thin wing with an oscillating jet flap. *Philos. Trans. Roy. Soc. London Ser. A* 257 (1964/65), 445-477. (E. V. Laitone) 32 #1981

Self similar solutions to adhesive contact problems with incremental loading. *Proc. Roy. Soc. Ser. A* 305 (1968), 55-80. (From the author's summary) 37 #2491

A Wiener-Hopf equation arising in elastic contact problems. *Proc. Roy. Soc. Ser. A* 305 (1968), 81-92. (Author's summary) 37 #2492

A Wiener-Hopf solution to the triple integral equations for the electrified disc in a coplanar gap. *Proc. Cambridge Philos. Soc.* 68 (1970), 529-545. (W. E. Williams) 41 #4900

Spence, Edward

A new class of Hadamard matrices. *Glasgow Math. J.* 8 (1967), 59-62. (H. Minc) 35 #1496

Packing of spheres in l_p. *Glasgow Math. J.* 11 (1970), 72-80. (H. S. M. Coxeter) 41 #4391

Some new symmetric block designs. *J. Combinatorial Theory Ser. A* 11 (1971), 299-302. (K. Vijayan) 44 #6517

Spence, Robert

(with Penfield, P., Jr.; Duinker, S.) A generalized form of Tellegen's theorem. *IEEE Trans. Circuit Theory* CT-17 (1970), 302-305. (J. Morávek) 42 #1589

* (with Penfield, Paul, Jr.; Duinker, Simon) Tellegen's theorem and electrical networks. Research Monograph, No. 58. *The M.I.T. Press, Cambridge, Mass.-London,* 1970. xv + 143 pp. (J. Morávek) 43 #8456

Spencer, A. J. M.

Perturbation methods in plasticity. II. Plane strain of slightly irregular bodies. *J. Mech. Phys. Solids* 10 (1962), 17-26. (Author's summary) 29 #5439

Finite deformations of an almost incompressible elastic solid. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp. 200-216. Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (R. L. Fosdick) 29 #4262

A theory of the kinematics of ideal soils under plane strain conditions. *J. Mech. Phys. Solids* 12 (1964), 337-351. (Author's summary) 30 #1678

Isotropic integrity bases for vectors and second-order tensors. II. *Arch. Rational Mech. Anal.* 18 (1965), 51-82. (A. C. Pipkin) 30 #525 (with Kydoniefs, A. D.) The finite inflation of an elastic torus. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 173-195. (Donald E. Carlson) 32 #3341

A note on the decomposition of tensors into traceless symmetric tensors. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 475-481. 41 #4418

On generating functions for the number of invariants of orthogonal tensors. *Mathematika* 17 (1970), 275-286. (Marvin Marcus) 43 #7451

Spencer, Armond E.

Maximal nonnormal chains in finite groups. *Pacific J. Math.* 27 (1968), 167-173. (E. L. Spitznagel, Jr.) 38 #2205

Spencer, Christopher B.

(with Rutter, John W.) On the James, Samelson and Whitehead products. *Tôhoku Math. J.* (2) 22 (1970), 547-556. (M. Arkowitz) 43 #6924

Spencer, Domina Eberle

* (with Moon, Parry) Vectors. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1965. vii + 334 *pp.* (N. Coburn) 33 #1993

Spencer, Donald C.

Harmonic integrals and Neumann problems associated with linear partial differential equations. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 253-260. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (A. Newlander, Jr.) 34 #2031

Correction to "Deformation of structures manifolds defined by transitive, continuous pseudogroups. I. Infinitesimal deformations of structure". *Ann. of Math.* (2) 78 (1963), 204. (M. Kuranishi) 29 #4074

A type of formal exterior differentiation associated with pseudogroups. *Scripta Math.* 26 101-106 (1963). (M. Kuranishi) 29 #4073

Existence of local coordinates for structures of defined by elliptic pseudogroups. *Differential Analysis, Bombay Colloq.,* 1964, *pp.* 135-162. *Oxford Univ. Press, London,* 1964. (M. Kuranishi) 33 #1865

De Rham theorems and Neumann decompositions associated with linear partial differential equations. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 1-19. (J. Eells) 34 #5109

Deformation of structures on manifolds defined by transitive, continuous pseudogroups. III. Structures defined by elliptic pseudogroups. *Ann. of Math.* (2) 81 (1965), 389-450. (A. Newlander, Jr.) 31 #4052

Remark on formal exterior differentiation. *J. Analyse Math.* 14 (1965), 433-442. (M. W. Hirsch) 31 #2694

The theory of harmonic integrals. *Some Recent Advances in the Basic Sciences, Vol.* 1 *(Proc. Annual Sci. Conf., Belfer Grad. School Sci., Yeshiva Univ., New York,* 1962-1964*), pp.* 137-155. *Belfer Graduate School of Science, Yeshiva Univ., New York,* 1966. (J. Eells) 35 #1043

(See also Global analysis, 40 #6559)

On deformation of pseudogroup structures. *Global Analysis (Papers in Honor of K. Kodaira), pp.* 367-395. *Univ. Tokyo Press, Tokyo,* 1969. (V. Guillemin) 41 #4591

Overdetermined systems of linear partial differential equations. *Bull. Amer. Math. Soc.* 75 (1969), 179-239. (H. Kumano-go) 39 #3533

Uncoupled overdetermined systems. *Golbel Analysis (Proc. Sympos. Pure Math., Vol. XVI, Berkeley, Calif.,* 1968*), pp.* 211-220. *Amer. Math. Soc., Providence, R. I.,* 1970. (V. Guillemin) 43 #2750

Spencer, James Porter

Considerations on a Müntz-type problem on the interval [0,∞). *Mitt. Math. Sem. Giessen Heft* 84 (1970), i + 61 *pp.* (B. Rodriguez-Salinas) 43 #2492

Spencer, Jill C. D. See Yaqub, Jill C. D. S.

Spencer, Joel H.

(with Belnap, Nuel D., Jr.) Intensionally complemented distributive lattices. *Portugal. Math.* 25 (1966), 99-104. (G. Grätzer) 35 #1519

Maximal consistent families of triples. *J. Combinatorial Theory* 5 (1968), 1-8. (S. S. Shrikhande) 37 #2616

Optimal ranking of tournaments. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 416-420. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (J. W. Moon) 42 #5843

Minimal completely separating systems. *J. Combinatorial Theory* 8 (1970), 446-447. (R. E. Greenwood) 41 #1546

On cliques in graphs. *Israel J. Math.* 9 (1971), 419-421. (J. W. Moon) 44 #107

(with Roberts, Fred S.) A characterization of clique graphs. *J. Combinatorial Theory Ser. B* 10 (1971), 102-108. (F. Harary) 44 #3917

Spencer, Lewis V.

(with Flusser, P.) Properties of a useful biorthogonal system. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 197-211. (S. K. Chatterjea) 37 #5443

Spencer Brown, D. J. See Brown, D. J. Spencer.

Spendley, W.

(with Hext, G. R.; Himsworth, F. R.) Sequential application of simplex designs in optimisation and evolutionary operation. *Technometrics* 4 (1962), 441-461. 32 #1849

Speranza, Francesco

Sull'approssimazione di una transformazione fra piani mediante transformazioni quadratiche. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 11 (1962-65), 61-67. (H. R. Müller) 33 #627

Tipi particolari di superficie anolonome in uno sapzio a connessione lineare. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 11 (1962-65.), 69-91. (R. L. Bishop) 33 #4852

Sulle connessioni prospettive. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (11) 10 (1962/63), *no.* 2, 91-122. (R. L. Bishop) 31 #5176

Superficie anolonome in uno spazio a connessione lineare. Determinazione di particolari tipi di connessione. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (11) 10 (1962/63), *no.* 2, 123-139. (R. L. Bishop) 31 #5177

Transformazioni fra piani euclidei rigati. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (11) 10 (1962/63), *no.* 2, 176-191. (B. d'Orgeval) 29 #6373

Sulle transformazioni fra spazi a connessione metrica. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (11) 10 (1962/63), *no.* 2, 192-208. (R. L. Bishop) 31 #5178

Le transformazioni d'un piano in sè approssimabili con una transformazione quadratica dotata d'una conica di punti uniti. (English summary) *Boll. Un. Mat. Ital.* (3) 19 (1964), 193-205. (H. R. Müller) 29 #3944

Particolari superficie anolonome d'uno spazio a connessione lineare. (English summary) *Boll. Un. Mat. Ital.* (3) 19 (1964), 253-259. (G. Vranceanu) 31 #6183

Alcune proprietà delle transformazioni fra piani o spazi sovrapposti. (English summary) *Boll. Un. Mat. Ital.* (3) 19 (1964), 351-372. (D. Gallarati) 31 #1625

Sulla nozione di connessione. (English summary) *Boll. Un. Mat. Ital.* (3) 20 (1965), 367-378. (A. Heller) 33 #3225

Omomorfismi fra grafi e grafi moltiplicativi. *Ann. Mat. Pura Appl.* (4) 71 (1966), 281-293. (R. C. Read) 35 #82

Sui gruppi d'olonomia degli spazi a connessione proiettiva o affine generalizzati. (English summary) *Boll. Un. Mat. Ital.* (3) 21 (1966), 48-64. (P. Drăgilă) 34 #734

Le Varietà anolonome: Proprietà e problemi. *Rend. Sem. Mat. Messina* 11 (1966/67), 13-20 (1969). (From the author's introduction) 40 #3441

Su alcuni singrammi che si possono associare ad un dato singramma pluridimensionale. (English summary) *Studia Ghisleriana Ser. IV, Vol. IV: Studi Matematici, pp.* 22-31. *Collegio Ghislieri, Pavia,* 1967. (R. C. Read) 38 #2046

Le varietà le cui superficie non ammettono spazi osculatori di dimensione regolare. (English summary) *Atti Sem. Mat. Fis. Univ. Modena* 17 (1968), *fasc.* 2, 247-251. (E. Bompiani) 40 #4876

Sui singrammi privi di automorfismi non identici. (English summary) *Atti Soc. Peloritana Sci. Fis. Mat. Natur.* 14 (1968), 1-31. (R. C. Read) 39 #5405

Connessioni prospettive in un sistema di spazi lineari. *Period. Mat.* (4) 46 (1968), 326-339. (V. Dumitras) 42 #2375

Invarianti topologico-differenziali di relazioni tra varietà differenziabili. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 14-49. (R. De Sapio) 40 #8065

Sull'approssimazione di ipersuperficie anolonome. *Matematiche (Catania)* 24 (1969), 156-165. (E. Bompiani) 41 #4404

Grafi, categorie, e loro applicazioni alla geometria differenziale. *Rend. Sem. Mat. Messina* 11 (1966/67), 33-46 (1969). (C. Di Comite) 40 #7974

Grafi e strutture algebriche. (English summary) *Rend. Sem. Mat. Fis. Milano* 40 (1970), 9-23. (R. C. Read) 44 #6553

Osservazioni sulla varietà unione degli spazi j-osculatori alle curve d'una varietà d'uno spazio proiettivo. (French summary) *Rev. Roumaine Math. Pures Appl.* 16 (1971), 405-411. (H. W. Guggenheimer) 44 #4657

Sperber, D.

Recursion formula for the interaction energy of a configuration of n equivalent particles. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 1772-1778. (K. K. Gupta) 29 #1940

Sperling, Hans J.

(with Rothstein, Wolfgang) Einsetzen analytischer Flächenstüke in Zyklen auf komplexen Räumen. *Festschr. Gedächtnisfeier K. Weierstrass, pp.* 531-554. *Westdeutscher Verlag, Cologne,* 1966. (H. Röhrl) 35 #1830

Note on a statement in A. Wintner's ***Analytical foundations of celestial mechanics.*** *Celestial Mech.* 1 (1969/70), 210-212. (E. Rabe) 41 #4870

The collision singularity in a perturbed two-body problem. *Celestial Mech.* 1 (1969/70), 213-221. (E. Rabe) 41 #2978

On the real singularities of the N-body problem. *J. Reine Angew. Math.* 245 (1970), 15-40. (F. V. Pohle) 44 #7810

Sperner, Emanuel

* Einführung in die analytische Geometrie und Algebra. Erster Teil. Sechste Auflage. Studia Mathematica/Mathematische Lehrbücher, Band I. *Vandenhoeck & Ruprecht, Göttingen,* 1963. viii + 339 *pp.* (Editors) 33 #5638

Zum Gedenken an Wilhelm Blaschke. *Abh. Math. Sem. Univ. Hamburg* 26 (1963/64), 111-128. *(1 plate)* (Editors) 30 #3001

On non-desarguesian geometries. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol. 2, Ist. Naz. Alta Mat., pp.* 574-594. *Ediz. Cremonese, Rome,* 1965. (J. D. Swift) 34 #6606

Moderne Denkweisen der Mathematik. *Abh. Math. Sem. Univ. Hamburg* 29 (1965), i-xx. 32 #2297

In ricordo di Wilhelm Blaschke. *Rend. Sem. Mat. Messina* 10 (1965/66), 57-77 (1968). (Editors) 40 #2509

Zur Geometrie der Quasimoduln. *Symposia Mathematica, Vol. V (INDAM, Rome,* 1969/70), *pp.* 421-438. *Academic Press, London,* 1971. (D. Betten) 43 #2605

Sperry, P. L.

The homotopy axiom for Alexander theory. *J. London Math. Soc.* 41 (1966), 97-100. (K. H. Hofmann) 32 #3044

On generating systems for abelian groups. *Proc. Amer. Math. Soc.* 24 (1970), 148-153. (Ti Yen) 40 #234

(with Phillips, R. G.) Elementary extensions of linear topological abelian groups. *Proc. Amer. Math. Soc.* 31 (1972), 525-528. (H. J. Biesterfeldt, Jr.) 44 #5410

Speyer, Jason L.

(with Bryson, Arthur E., Jr.) Optimal programming problems with a bounded state space. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968), *pp.* 485-491. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2401

(with Jacobson, David H.) Necessary and sufficient conditions for optimality for singular control problems; a transformation approach. *J. Math. Anal. Appl.* 33 (1971), 163-187. (P. L. Falb) 42 #7350

(with Jacobson, David H.) Necessary and sufficient conditions for optimality for singular control problems: A limit approach. *J. Math. Anal. Appl.* 34 (1971), 239-266. (D. K. Hughes) 44 #3169

(with Jacobson, D. H.; Lele, M. M.) New necessary conditions of optimality for control problems with state-variable inequality constraints. *J. Math. Anal. Appl.* 35 (1971), 255-284. (L. W. Neustadt) 44 #2129

Speziali, Pierre

* Charles-François Sturm (1803-1855), documents inédits. Conférence sur Histoire des Sciences, Palais de la Découverte, Université de Paris, 1964. *Université de Paris, Paris,* 1964. 32 *pp.* (S. C. van Veen) 31 #1168

Spicer, Donald Z.

Group algebras of vector-valued functions. *Pacific J. Math.* 24 (1968), 379-399. (H. A. Smith) 37 #2001

Semisimplicity of group algebras of vector-valued functions. *Proc. Amer. Math. Soc.* 19 (1968), 573-577. (R. H. Cox) 37 #2002

Spiegel, Edward A.

On the Malkus theory of turbulence. (French summary) *Mécanique de la Turbulence (Marseille,* 1961), *pp.* 181-201. *Editions Centre Nat. Recherche Sci., Paris,* 1962. (R. L. Peskin) 30 #1698

Convective instability in a compressible atmosphere. I. *Astrophys. J.* 141 (1965), 1068-1090. (P. H. Roberts) 32 #5346

(Moore, Derek W.) A thermally excited non-linear oscillator. *Astrophys. J.* 143 (1966), 871-887. (P. L. Bhatnagar) 33 #1136

Spiegel, Eugene

On the automorphisms of the unitary group over a field of characteristic 2. *Amer. J. Math.* 89 (1967), 43-50. (J. Dieudonné) 35 #263

On the automorphisms of the projective unitary group over a field of characteristic 2. *Amer. J. Math.* 89 (1967), 51-55. (J. Dieudonné) 35 #262

On the structure of the infinite dimensional unitary group. *Math. Ann.* 172 (1967), 197-202. (B. H. Neumann) 35 #4313

Spiegel, Murray R.

* Theory and problems of Laplace transforms. *Schaum Publishing Co., New York,* 1965. vi + 261 *pp.* (R. V. Churchill) 31 #5042

Spielberg, K.

(with Guignard, M.) Search techniques with adaptive features for certain integer and mixed integer programming problems. *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968), *Vol.* 1: *Mathematics, Software, pp.* 238-244. *North-Holland, Amsterdam,* 1969. (Y. Cherruault) 41 #2897

Spielberg, Kurt

(with Lemke, Carlton E.) Direct search algorithms for zero-one and mixed-integer programming. *Operations Res.* 15 (1967), 892-914. (A. J. Lohwater) 43 #7211

Spielvogel, E. R.

A variational principle for waves of infinite depth. *Arch. Rational Mech. Anal.* 39 (1970), 189-205. (T. W. Ting) 42 #3639

Spiess, Jürgen

(with Goldstein, A. A.; Johnson, F. C.) On the isolation of the roots of a non-linear operator. *J. Comput. System Sci.* 5 (1971), 83-87. (M. Z. Nashed) 43 #7977

Špigel', E. M.

(with Ščerbakov, B. A.) On the structure of quasi-minimal sets. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 97-101. (M. Eisenberg) 35 #999

(with Gohberg, I. C.) A projection method for solving singular integral equations. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 1002-1005. (L. von Wolfersdorf) 43 #3755

(with Gohberg, I. C.) The projection method for solving singular integral equations with polynomial coefficients. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 3 (21), 45-61. (L. von Wolfersdorf) 44 #7380

Spijker, Marc Nico

Convergence and stability of step-by-step methods for the numerical solution of initial-value problems. *Numer. Math.* 8 (1966), 161-177. (G. Dahlquist) 34 #2200

On the consistency of finite-difference methods for the solution of initial-value problems. *J. Math. Anal. Appl.* 19 (1967), 125-132. (H. J. Stetter) 37 #1102

* Stability and convergence of finite-difference methods. (Dutch summary) Doctoral dissertation, University of Leiden, 1968. *Rijksuniversiteit te Leiden, Leiden,* 1968. 85 *pp. (loose insert,* 6 *pp.)* (O. Widlund) 39 #1118

* (with Dekker, L.; Dekker, T. J.; van der Houwen, P. J.) Colloquium stabiliteit van differentieschema's. Deel 2. (Dutch) [Colloquium on the stability of difference schemes. Part 2] MC Syllabus, 2.2. *Mathematisch Centrum, Amsterdam,* 1968. iii + 87 *pp.* (W. J. Kotzé) 41 #7849

Round-off error in the numerical solution of second order differential equations. *Conf. on Numerical Solution of Differential Equations (Dundee,* 1969), *pp.* 249-254. *Springer, Berlin,* 1969. 42 #2678

Superposition in linear and nonlinear ordinary differential equations. *J. Math. Anal. Appl.* 30 (1970), 206-222. (T. A. Burton) 40 #7524

Špilevski, A.

A theorem on generalized identities in n-dimensional flat space, and their interpretation. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 17 (1968), 484-486. (K. Kumar) 43 #2628

Špilevskiĭ, A. See Špilevski, A.

Špilevskiĭ, È. K.

(with Strelicas, Š. I.) On maximal values of analytic functions of two variables. (Russian. Lithuanian summary) *Vilniaus Valst. Univ. Mokslo Darbai Mat. Fiz.* 9 (1960), 61-70. (W. C. Royster) 32 #2611

Spilker, Jürgen

Kompaktifizierung des Humbertschen Fundamentalbereichs. *Math. Ann.* 161 (1965), 296-314. (M. Eichler) 32 #5601

Über den Rand der Siegelschen Halbebene. *Math. Z.* 90 (1965), 273-285. (E. Grosswald) 32 #4290

Werte von Modulformen. *Nachr. Akad. Wiss. Göttingen Math.-Phys. Kl. II* 1965, 125-132. (H. Röhrl) 34 #2943

Eine Anzahlfunktion bei diskontinuierlichen Gruppen. *Arch. Math. (Basel)* 18 (1967), 597-602. (A. M. Macbeath) 37 #2692

Über eine Vertauschbarkeit von Addition und Multiplikation. *Elem. Math.* 22 (1967), 12-13. (A. Brown) 34 #5732

Darstellung automorpher Formen durch Poincaré-Reihen. *Math. Z.* 99 (1967), 216-234. (E. Gottschling) 36 #432

(with Richter, M. W.) Überall maximale Funktionen. *Elem. Math.* 23 (1968), 61-63. (S. Roy Schubert) 38 #2746

de-Spiller, D. A. See De-Spiller, D. A.

Spillers, William R.

(with Hickerson, Norris) Optimal elimination for sparse symmetric systems as a graph problem. *Quart. Appl. Math.* 26 (1968), 425-432. (Authors' summary) 38 #1818

(with Farrell, John) On the analysis of structural design. *J. Math. Anal. Appl.* 25 (1969), 285-295. (From the authors' introduction) 39 #2454

(with Farrell, John) An absolute-value linear programming problem. *J. Math. Anal. Appl.* 28 (1969), 153-158. (M. Yamasaki) 39 #7938

Špil'raĭn, È. See Marczewski.

Spinelli, J. F. Croce. See Croce-Spinelli, J. F.

Spinelli, R. A.

Poisson equation on a sphere. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 489-499. (W. L. Gates) 33 #3477

Numerical inversion of a Laplace transform. *SIAM J. Numer. Anal.* 3 (1966), 636-649. (Y. L. Luke) 35 #5124

Poisson equation on a sphere. II. *SIAM J. Numer. Anal.* 4 (1967), 465-473. (W. L. Gates) 36 #1123

de Spinoza, Benedictus

* Algebraic calculation of the rainbow (1687). Facsimile of the original Dutch text, with an introduction by G. ten Doesschate. Dutch Classics on History of Science, Vol. V. *B. de Graaf, Nieuwkoop,* 1963. 26 + v + 20 *pp.* (Y. Dold) 44 #2552

Spira, Philip M.

The time required for group multiplication. *J. Assoc. Comput. Mach.* 16 (1969), 235-243. (Author's summary) 39 #1150

On the computational complexity of finite functions and semigroup multiplication. *Information Sci.* 2 (1970), 35-49. (Author's summary) 42 #5477

Spira, Robert

Polynomial representations of sums of two squares. *Amer. Math. Monthly* 71 (1964), 760-766. (B. J. Birch) 29 #4726

An inequality for the Riemann zeta function. *Duke Math. J.* 32 (1965), 247-250. (S. Knapowski) 31 #1232

Erratum: An inequality for the Riemann zeta function. *Duke Math. J.* 32 (1965), 765. (Editors) 32 #96

Zero-free regions of $\zeta^{(k)}(s)$. *J. London Math. Soc.* 40 (1965), 677-682. (S. Knapowski) 31 #5849

Zeros of sections of the zeta function. I. *Math. Comp.* 20 (1966), 542-550. (From the author's introduction) 34 #3757

Approximate functional approximations and the Riemann hypothesis. *Proc. Amer. Math. Soc.* 17 (1966), 314-317. (K. Chandrasekharan) 33 #7312

The nonvanishing of the Bernoulli polynomials in the critical strip. *Proc. Amer. Math. Soc.* 17 (1966), 1466-1467. (H. M. Srivastava) 34 #2967

A totient function on the residue classes mod m and other semigroups. *Amer. Math. Monthly* 74 (1967), *no.* 1, *part I*, 25-28. (R. E. Peinado) 34 #4192

Zeros of approximate functional approximations. *Math. Comp.* 21 (1967), 41-48. (K. Chandrasekharan) 38 #2945

Derived-set axioms for topological spaces. *Portugal. Math.* 26 (1967), 165-167. (R. F. Dickman, Jr.) 40 #4911

Polynomial interpolation over commutative rings. *Amer. Math. Monthly* 75 (1968), 638-640. (Editors) 37 #5199

Sets of values of general Dirichlet series. *Duke Math. J.* 35 (1968), 79-82. (S. C. van Veen) 39 #141

Zeros of sections of the zeta function. II. *Math. Comp.* 22 (1968), 163-173. (T. M. Apostol) 37 #4036

On the Riemann zeta function. *J. London Math. Soc.* 44 (1969), 325-328. (D. H. Lehmer) 41 #5308

Calculation of Dirichlet L-functions. *Math. Comp.* 23 (1969), 489-497. (Editors) 40 #1004a

Tables and programs for Dirichlet L-series. *Math. Comp.* 23 (1969), *no.* 107, *loose microfiche suppl.* (Editors) 40 #1004b

A zeta-function identity. *Math. Student* 37 (1969), 175-178. (K. Thanigasalam) 42 #213

A lemma in transcendental number theory. *Trans. Amer. Math. Soc.* 146 (1969), 457-464. (J. Popken and R. Tijdeman) 41 #5307

Residue class characters. *Duke Math. J.* 37 (1970), 633-637. (M. L. Madan) 42 #4479

General Lambert series. *Portugal. Math.* 29 (1970), 95-99. (P. S. Chiang) 44 #1796

Another zero-free region for $\zeta^{(k)}(s)$. *Proc. Amer. Math. Soc.* 26 (1970), 246-247. (K. Thanigasalam) 41 #8354

The isogonic and Erdős-Mordell points of a simplex. *Amer. Math. Monthly* 78 (1971), 856-864. (C. M. Petty) 44 #5861

The integral representation for the Riemann Ξ-function. *J. Number Theory* 3 (1971), 498-501. (T. M. Apostol) 44 #164

Spircu, Tiberiu

(with Popescu, Nicolae) Sur les épimorphismes plats d'anneaux. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A376-A379. (G. Betsch) 39 #4227

(with Popescu, Nicolae) Quelques observations sur les épimorphismes plats (à gauche) d'anneaux. *J. Algebra* 16 (1970), 40-59. (R. T. Hoobler) 42 #323

Spiridonov, Veselin

(with Dimitrov, Emanuil; Sendov, Blagovest) Axiomatics and automatic control of block designs. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 1 *Math.* 56 (1961/62), 185-190 (1963). (P. Constantinescu) 30 #731

A modification of the gradient projection method in non-linear programming. (Bulgarian. Russian and English summaries) *Bŭlgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 8 (1964), 145-151. (P. L. Ivănescu) 30 #2937

On a quadrature formula of S. N. Bernstein. (Russian) *C. R. Acad. Bulgare Sci.* 17 (1964), 339-342. (Walter Gautschi) 29 #4196

(with Germanov, M.) On a class of convex functions in non-linear programming. (Russian) *C. R. Acad. Bulgare Sci.* 18 (1965), 723-724. (A. H. Stroud) 32 #7248

(with Germanov, M.) A nonlinear problem of allocation of industries. (Russian) *Rev. Roumaine Math. Pures Appl.* 10 (1965), 431-436. (Authors' summary) 33 #1155

On the convergence of an interpolation process with respect to the Hausdorff metric. (Bulgarian. Russian and English summaries) *B''lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966), 219-226. (Bl. Sendov) 35 #2060

(with Germanov, Milčo) A type of problem of non-linear programming solvable by the simplex procedure. (Bulgarian. Russian and English summaries) *B''lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966), 261-273. 34 #8814

(with Germanov, M.) A property of trajectories orthogonal to level lines of convex functions. *C. R. Acad. Bulgare Sci.* 19 (1966), 565-567. (R. E. Stearns) 34 #2802

(with Germanov, M.) A gradient method in non-linear programming. *C. R. Acad. Bulgare Sci.* 19 (1966), 697-700. (J. Stoer) 34 #4010

(with Spiridonov, V. S.) On a certain method for solving systems of nonlinear inequalities. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 335-336. (L. B. Rall) 35 #1186

The application of Uzawa's theorem on convex polyhedral cones in mathematical programming problems. (Russian) *C. R. Acad. Bulgare Sci.* 21 (1968), 617-620. (Editors) 38 #6846

The application of the gradient relaxation method for the solution of systems of nonlinear equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 872-873. (J. W. Schmidt) 37 #7085

Spiro, A. G.

(with Kogan, B. Ja.; Kaz′min, A. I.; Nazarova, V. P.) Hybrid computing systems and their principal domains of application. (Russian) *Theory of Probability, Mathematical Statist., Theoret. Cybernet.* 1967 *(Russian), pp.* 47-123. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1968. 40 #2249

Spitzer, Frank L.

* Principles of random walk. The University Series in Higher Mathematics. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto-London,* 1964. xi + 406 *pp.* (T. Watanabe) 30 #1521

Electrostatic capacity, heat flow, and Brownian motion. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 110-121 (1964). (H. P. McKean, Jr.) 30 #2562

(with Kesten, H.) Random walk on countably infinite Abelian groups. *Acta Math.* 114 (1965), 237-265. (T. Watanabe) 33 #3366

(with Kesten, H.; Ney, P.) The Galton-Watson process with mean one and finite variance. (Russian summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 579-611. (J. Wolfowitz) 34 #6868

(with Ney, P.) The Martin boundary for random walk. *Trans. Amer. Math. Soc.* 121 (1966), 116-132. (J. L. Snell) 33 #3354

Renewal theorems for Markov chains. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66), *Vol. II: Contributions to Probability Theory, Part* 2, *pp.* 311-320. *Univ. California Press, Berkeley, Calif.,* 1967. (J. Wolfowitz) 35 #4995

Two explicit Martin boundary constructions. *Symposium on Probability Methods in Analysis (Loutraki,* 1966), *pp.* 296-298. *Springer, Berlin,* 1967. (J. L. Snell) 36 #7211

(with Joffe, A.) On multitype branching processes with $\rho \leq 1$. *J. Math. Anal. Appl.* 19 (1967), 409-430. (I. J. Good) 35 #3760

Uniform motion with elastic collision of an infinite particle system. *J. Math. Mech.* 18 (1968/69), 973-989. (H. P. McKean, Jr.) 39 #4967

Random processes defined through the interaction of an infinite particle system. *Probability and Information Theory (Proc. Internat. Sympos., McMaster Univ., Hamilton, Ont.,* 1968), *pp.* 201-223. *Springer, Berlin,* 1969. (D. W. Stroock) 42 #3861

* Principes des cheminements aléatoires. Traduit de l'anglais par E. Baverez et J.-L. Guignard. Centre Interarmées de Recherche Opérationnelle, 2. *Dunod, Paris,* 1970. xi + 411 *pp.* (Editors) 41 #4668

Interaction of Markov processes. *Advances in Math.* 5, 246-290 (1970). (B. Weiss) 42 #3856

Markov random fields and Gibbs ensembles. *Amer. Math. Monthly* 78 (1971), 142-154. (S. J. Taylor) 43 #2773

Spitzer, Richard

The parity of the neutral K meson. *Nuclear Phys.* 47 (1963), 367-384. (R. F. Streater) 29 #1906

K_1^0 regeneration by magnetic field and apparent CP violation. *Nuclear Phys.* 68 (1965), 691-694. (R. R. Lewis) 32 #856

Spitznagel, Edward L., Jr.

Hall subgroups of certain families of finite groups. *Math. Z.* 97 (1967), 259-290. (R. Steinberg) 35 #1673

(with Szygenda, Stephen A.) A computer study of the orders of finite simple groups. *Math. Comp.* 22 (1968), 669-671. (D. Gorenstein) 37 #2851

Terminality of the maximal unipotent subgroups of Chevalley groups. *Math. Z.* 103 (1968), 112-116. (J. G. Horne) 37 #2867

(with Dornhoff, Larry) Density of finite simple group orders. *Math. Z.* 106 (1968), 175-177. (E. Grosswald) 38 #1162

Structure and terminality of the maximal unipotent subgroups of Steinberg groups. *Illinois J. Math.* 13 (1969), 400-405. (J. G. Horne) 39 #4284

Spivak, M. A.

A treatment of the theory of automata by the methods of the theory of relations. (Russian) *Problemy Kibernet. No.* 12 (1964), 69-97. (E. M. Fels) 31 #3289

* (with Gohman, A. V.; Žitomirskiĭ, G. I.; Rozen, V. V.; Ryžkov, A. G.; Saliĭ, V. N.; Šimel′fenig, O. V.) Сборник задач по математической логике и алгебре множеств. (Russian) [Collection of problems in mathematical logic and algebra of sets] *Izdat. Saratov. Univ., Saratov,* 1965. 87 *pp.* (E. Mendelson) 34 #1196

The decomposition of regular expressions in terms of a basis, and its applications. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 520-522. (G. Asser) 31 #4697

An algorithm for the abstract synthesis of automata for the extended language of regular expressions. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 1, 51-57. (G. Asser) 32 #5467

Conditions for the resolvability of a relation into a direct sum. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 132-139. (M. Novotný) 32 #5525

Algebraic characteristic of the computation power of an automaton. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 4, 1-11. (Author's summary) 34 #1118

Some properties of the set of experiments of an automaton. *Kibernetika (Kiev)* 1966, *no.* 6, 1-7 *(Russian); translated as Cybernetics* 2 (1966), *no.* 6, 1-5 (1969). (G. Blohina (RŽMat 1967 #5 B172)) 44 #5196

Minimization of a Moore automaton. *Kibernetika (Kiev)* 1967, *no.* 1, 5-6 *(Russian); translated as Cybernetics* 3 (1967), *no.* 1, 4-5 (1969). (J. Hartmanis) 42 #9099

* Математический анализ на многообразиях. (Russian) [Mathematical analysis on manifolds] Translated from the English by I. A. Berezanskiĭ. Edited by D. A. Raĭkov. *Izdat. "Mir", Moscow,* 1968. 164 *pp.* (Editors) 39 #2928

Generalized diagnosis and setting problems for finite automata. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 3, 82-87 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 3, 72-76. (S. Huzino) 42 #1607

Spivak, Michael

(See Milnor, J., 29 #634)

* Calculus on manifolds. A modern approach to classical theorems of advanced calculus. *W. A. Benjamin, Inc., New York-Amsterdam,* 1965. xii + 144 *pp.* (C. B. Allendoerfer) 35 #309

Spaces satisfying Poincaré duality. *Topology* 6 (1967), 77-101. (A. Dold) 35 #4923

* A comprehensive introduction to differential geometry. Vol. One. *Published by M. Spivak, Brandeis Univ., Waltham, Mass.,* 1970. iii + 656 *pp. (not consecutively paged)* (N. J. Hicks) 42 #2369

* A comprehensive introduction to differential geometry. Vol. II. *Published by M. Spivak, Brandeis Univ., Waltham, Mass.,* 1970. ix + 425 *pp. (not consecutively paged) (loose errata)* (N. J. Hicks) 42 #6726

Spivak, V. N.

(with Hranovič, I. L.) The Kuhn-Tucker theorem for almost concave functions. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Èkonom. i Mat. Metody, Collection No. 1) (Russian), pp.* 48-49. *Izdat. "Nauka", Moscow,* 1969. (J. Abrham) 44 #5115

Spivakas, Š. R.

A method of minimization of an incomplete decoder. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR Ser. B* 1968, *no.* 3 (54), 121-124. (Editors) 40 #2435

Synthesis of a conjunctive system of Boolean functions. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR Ser. B* 1969, *no.* 3 (58), 221-227. (I. G. Rosenberg) 44 #2529

Certain tactical problems and the synthesis of their graph-schemes. (Russian. Lithuanian and English summaries) *Trudy Akad. Nauk Litov. SSR Ser. B* 1970, *no.* 1 (60), 237-250. (I. G. Rosenberg) 44 #2530

Spivey, W. Allen

(with Tamura, Hirokuni) Goal programming in econometrics. *Naval Res. Logist. Quart.* 17 (1970), 183-192. (M. J. Beckmann) 42 #2781

Spjøtvoll, Emil

Optimum invariant tests in unbalanced variance components models. *Ann. Math. Statist.* 38 (1967), 422-428. (M. Skibinsky) 34 #8558

A mixed model in the analysis of variance. Optimal properties. *Skand. Aktuarietidskr.* 1966, 1-38 (1967). (R. M. Cormack) 36 #4724

Most powerful tests for some non-exponential families. *Ann. Math. Statist.* 39 (1968), 772-784. (R. H. Farrell) 37 #4905

A note on robust estimation in analysis of variance. *Ann. Math. Statist.* 39 (1968), 1486-1492. (R. M. Elashoff) 37 #7048

Confidence intervals and tests for variance ratios in unbalanced variance components models. (French summary) *Rev. Inst. Internat. Statist.* 36 (1968), 37-42. (R. M. Elashoff) 37 #2381

Spoar, G.

(with Lane, N. D.) A conformal proof of a Jordan curve problem. *Canad. Math. Bull.* 12 (1969), 673-674. 40 #1870

Spoglianti, Maria

(See Niven, Ivan, 36 #5084)

Sulla scoperta delle frazioni continue. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 102 (1967/68), 589-601. (P. Bockstaele) 38 #4265

Spohn, Daniel

Sur les formules à pas liés dans l'intégration numérique des équations intégrales du type de Volterra. *Quatrième Congr. de Calcul et de Traitement de l'Information AFIRO, pp.* 349-356. *Dunod, Paris,* 1965. (D. Elliott) 31 #5357

Spohn, W. G.

Blichfeldt's theorem and simultaneous diophantine approximation. *Amer. J. Math.* 90 (1968), 885-894. (J. M. Wills) 38 #122

On the lattice constant for $|x^3 + y^3 + z^3| \leq 1$. *Math. Comp.* 23 (1969), 141-149. (H. J. Godwin) 39 #2706

Sponsler, George C.

(with Kufarev, P. P.; Sobolev, V. V.) A certain method of investigation of extremal problems for functions that are univalent in the half-plane. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 142-164. (T. Kubo) 41 #1987

Spragins, John D.

A note on the iterative application of Bayes' rule. *IEEE Trans. Information Theory* IT-11 (1965), 544-549. (D. V. Lindley) 32 #6632

(with Yakowitz, Sidney J.) On the identifiability of finite mixtures. *Ann. Math. Statist.* 39 (1968), 209-214. (H. Teicher) 36 #7248

Sprague, C. Fremont III.

On the reticulation problem in multivariable control systems. *IEEE Trans. Automatic Control* AC-9 (1964), 398-405. (Author's summary) 31 #3264

Sprecher, David A.

Fourier transforms of two Poisson kernels. *Amer. Math. Monthly* 72 (1965), 864-868. (J. L. B. Cooper) 32 #2839

A representation theorem for continuous functions of several variables. *Proc. Amer. Math. Soc.* 16 (1965), 200-203. (M. Kuczma) 30 #4866

On the structure of continuous functions of several variables. *Trans. Amer. Math. Soc.* 115 (1965), 340-355. (M. Kuczma) 35 #1737

On admissibility in representations of functions of several variables as finite sums of functions of one variable. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland,* 1965*), pp.* 95-109. *Academic Press, New York,* 1966. (M. Kuczma) 34 #4432

On the structure of representations of continuous functions of several variables as finite sums of continuous functions of one variable. *Proc. Amer. Math. Soc.* 17 (1966), 98-105. (M. Kuczma) 33# 2775

On the closure of certain Banach spaces of functions of several variables. *Bull. Amer. Math. Soc.* 73 (1967), 387-390. (D. E. Wulbert) 34 #8049

On best approximations of functions of two variables. *Duke Math. J.* 35 (1968), 391-397. (R. Kopp) 37 #669

On best approximations in several variables. *J. Reine Angew. Math.* 229 (1968), 117-130. (R. Kopp) 36 #5581

On similarity in functions of several variables. *Amer. Math. Monthly* 76 (1969), 627-632. (P. V. Reichelderfer) 39 #4338

Simultaneous best approximations with two polynomials. *J. Approximation Theory* 2 (1969), 384-388. (R. Kopp) 40 #6140

On the existence of best approximations and representations in several variables. *J. Reine Angew. Math.* 234 (1969), 152-162. (G. G. Lorentz) 41 #2272

* Elements of real analysis. *Academic Press, New York-London,* 1970. vi + 341 *pp.* (S. J. Taylor) 41 #8598

On simultaneous Chebyshev approximations. *J. Approximation Theory* 4 (1971), 137-146. (L. L. Schumaker) 43 #3705

Sprengel, Hans-Jürgen

(with Wilhelm, Otto) Zur Systematik einiger integrabler Fälle der Differentialgleichung $U'' + f(z)\, U = 0$ im Zusammenhang mit der Ausbreitung elektromagnetischer Wellen in inhomogenen Medien. *Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe* 13 (1969), 401-404. (I. Kay) 40 #8344

Sprent, P.

Fitting a polynomial to correlated equally spaced observations. *Biometrika* 52 (1965), 275-276. (From the author's introduction) 34 #5223

A generalized least-squares approach to linear functional relationships. (With discussion) *J. Roy. Statist. Soc. Ser. B* 28 (1966), 278-297. (Author's summary) 37 #5994

Sprindžuk, V. G.

Metric theorems on algebraic approximation in the field of power series. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 2 (1962), *no.* 2, 207-213. (B. Volkmann) 30 #1978

On a conjecture of K. Mahler concerning the measure of the set of S-numbers. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 2 (1962), *no.* 2, 221-226. (B. Volkmann) 30 #1979

On Dilworth's theorem on partially ordered sets. (Russian) *Dokl. Akad. Nauk BSSR* 7 (1963), 803-804. (D. Kurepa) 30 #1955

On the measure of the set of S-numbers in a p-adic field. (Russian) *Dokl. Akad. Nauk SSSR* 151 (1963), 1292. (B. Volkmann) 29 #5784

A proof of Mahler's conjecture on the measure of the set of S-numbers. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 379-436. (B. Volkmann) 31 #4762

* Проблема Малера в метрической теории чисел. (Russian) [Mahler's problem in metric number theory] *Izdat. "Nauka i Tehnika", Minsk,* 1967. 181 *pp.* (B. Volkmann) 39 #6832

Asymptotic behavior of integrals of quasiperiodic functions. (Russian) *Differencial'nye Uravnenija* 3 (1967), 862-868. (V. Lakshmikantham) 35 #3339

A metric theorem on the smallest integral polynomials of several variables. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 5-6. (W. Schwarz) 34 #5756

Concerning Baker's theorem on linear forms in logarithms. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 767-769. (W. Schwarz) 36 #1396

Asymptotic behavior of the number of solutions of certain Diophantine inequalities. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 770-772. (J. W. S. Cassels) 35 #4166

On the metric theory of linear Diophantine approximations. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 43-45. (J. B. Roberts) 36 #3731

The finiteness of the number of rational and algebraic points on certain transcendental curves. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 524-527. (O. Krötenheerdt) 37 #1323

Quasiperiodic functions with unbounded indefinite integral. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 5-9. (V. Lakshmikantham) 36 #6561

Effectivization in certain problems of Diophantine approximation theory. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 293-297. (J. B. Roberts) 37 #6247

Irrationality of the values of certain transcendental functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 93-107. (A. Schinzel) 36 #5087; erratum, 37, p. 1469

(with Vinogradov, A. I.) The representation of numbers by binary forms. (Russian) *Mat. Zametki* 3 (1968), 369-376. (J. B. Roberts) 37 #151

Estimates of linear forms with *p*-adic logarithms of algebraic numbers. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1968, *no.* 4, 5-14. (R. Finkelstein) 41 #5304

Mahler's problem in metric number theory. Translated from the Russian by B. Volkmann. Translations of Mathematical Monographs, Vol. 25. *American Mathematical Society, Providence, R. I.*, 1969. vii + 192 *pp.* (Editors) 39 #6833

On the metric theory of "nonlinear" diophantine approximations. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 298-301. (J. B. Roberts) 40 #4210

On the theory of Siegel's hypergeometric functions. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 389-391. (J. Ławrynowicz) 43 #579

Effective estimates in "ternary" exponential diophantine equations. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 777-780. (J. B. Roberts) 40 #5538

Gauss's error law in the distribution of the values of "short" Weyl sums. (Russian) *Dokl. Akad. Nauk BSSR* 13 (1969), 873-875. (R. Cuppens) 40 #4995

An effective estimate of rational approximations for algebraic numbers. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 681-684. (R. Finkelstein) 43 #3267

A new application of *p*-adic analysis to representations of numbers by binary forms. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1038-1063. (L. A. Kogan) 42 #5910

The greatest prime divisor of a binary form. (Russian) *Dokl. Akad. Nauk BSSR* 15 (1971), 389-391. (K. Mahler) 44 #3961

Springer, B. G. F.

(with Stone, Mervyn) A paradox involving quasi prior distributions. *Biometrika* 52 (1965), 623-627. (L. J. Savage) 35 #1127

Springer, C. E.

* Geometry and analysis of projective spaces. *W. H. Freeman and Co., San Francisco, Calif.-London*, 1964. xi + 299 *pp.* (G. Pickert) 30 #3396

Springer, George

(with Schiffer, M.) Fredholm eigenvalues and conformal mapping of multiply connected domains. *J. Analyse Math.* 14 (1965), 337-378. (Z. Nehari) 32 #2569

(with Deeter, Charles R.) Discrete harmonic kernels *J. Math. Mech.* 14 (1965), 413-438. (B. Hubbard) 34 #970

Springer, Melvin Dale

(with Thompson, W. E.) Bayesian confidence limits for the product of *N* binomial parameters. *Biometrika* 53 (1966), 611-613. (Authors' summary) 35 #2407

(with Thompson, W. E.) The distribution of products of independent random variables. *SIAM J. Appl. Math.* 14 (1966), 511-526. (L. A. Aroian) 34 #3623

(with Thompson, W. E.) Bayesian confidence limits for reliability of redundant systems when tests are terminated at first failure. *Technometrics* 10 (1968), 29-36. (W. Uhlmann) 36 #6089

(with Thompson, W. E.) The distribution of products of beta, gamma and Gaussian random variables. *SIAM J. Appl. Math.* 18 (1970), 721-737. (S. M. Samuels) 41 #9324

Springer, Tonny Albert

Quelques résultats sur la cohomologie galoisienne. *Colloq. Théorie des Groupes Algébriques (Bruxelles, 1962), pp.* 129-135. *Librairie Universitaire, Louvain; Gauthier-Villars, Paris*, 1962. (M. J. Greenberg) 32 #2417

Quaternions. (Dutch) *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1965, ZW-001, 8 *pp.* (G. E. Wall) 33 #1375

Une notion de compacité dans la théorie des espaces vectoriels topologiques. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 182-189. (A. F. Monna) 31 #5066

(with Monna, A. F.) Sur la structure des espaces de Banach non-archimédiens. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 602-614. (W. A. J. Luxemburg) 32 #4516

(with Borel, Armand) Rationality properties of linear algebraic groups. *Algebraic groups and Discontinuous subgroups (Proc. Sympos. Pure Math., Boulder, Colo.*, 1965*), pp.* 26-32. *Amer. Math. Soc. Providence, R. I.*, 1966. (R. Steinberg) 34 #5823

Nonabelian H^2 in Galois cohomology. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.*, 1965*), pp.* 164-182. *Amer. Math. Soc., Providence, R. I.*, 1966. (E. Abe) 35 #195

Galois cohomology of linear algebraic groups. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.*, 1965*), pp.* 149-158. *Amer. Math. Soc., Providence, R. I.*, 1966. (E. Abe) 35 #1600

Some arithmetical results on semi-simple Lie algebras. *Inst. Hautes Études Sci. Publ. Math. No.* 30 (1966), 115-141. (R. Steinberg) 34 #5993

A note on centralizers in semi-simple groups. *Nederl. Akad. Wetensch. Proc. Ser. A* 28 = *Indag. Math.* 28 (1966), 75-77. (R. Steinberg) 33 #2633

(See also Proc. Conf. Local Fields (Driebergen, 1966), 37 #3885)

Weyl's character formula for algebraic groups. *Invent. Math.* 5 (1968), 85-105. (R. Steinberg) 37 #2763

(with Weldkamp, Ferdinand D.) On Hjelmslev-Moufang planes. *Math. Z.* 107 (1968), 249-263. (G. Zappa) 40 #1884

On a lemma of Rosenlicht. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 378-383. (R. W. Richardson, Jr.) 39 #215

(with Borel, A.) Rationality properties of linear algebraic groups. II. *Tôhoku Math. J.* (2) 20 (1968), 443-497. (R. Steinberg) 39 #5576

The unipotent variety of a semi-simple group. *Algebraic Geometry (Internat. Colloq., Tata Inst. Fund. Res., Bombay*, 1968*), pp.* 373-391. *Oxford Univ. Press, London*, 1969. (T. Kambayashi) 41 #8429

Cusp forms for finite groups. *Seminar on Algebraic Groups and Related Finite Groups (The Institute for Advanced Study, Princeton, N. J.*, 1968/69*), pp.* 97-120. *Lecture Notes in Mathematics, Vol.* 131. *Springer, Berlin*, 1970. (J. E. Humphreys) 41 #8541

Characters of special groups. *Seminar on Algebraic Groups and Related Finite Groups. (The Institute for Advanced Study, Princeton, N. J.*, 1968/69*), pp.* 121-166. *Lecture Notes in Mathematics, Vol.* 131. *Springer, Berlin*, 1970. (J. E. Humphreys) 41 #8542

(with Steinberg, R.) Conjugacy classes. *Seminar on Algebraic Groups and Related Finite Groups (The Institute for Advanced Study, Princeton, N. J.*, 1968/69*), pp.* 167-266. *Lecture Notes in Mathematics, Vol.* 131. *Springer, Berlin*, 1970. (N. Burgoyne) 42 #3091

Sprott, D. A.

A transformation model for the investigation of fiducial distributions. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 856-869. (D. V. Lindley) 30 #3530

Fiducial distributions associated with independent normal variates. *Sankhyā Ser. A* 25 (1963), 403-406. (M. Dwass) 30 #2595

(with Stanton, R. G.) Block intersections in balanced incomplete block designs. *Canad. Math. Bull.* 7 (1964), 539-548. (E. Seiden) 30 #4692

Generalizations arising from a family of difference sets. *J. Indian Statist. Assoc.* 2 (1964), 197-209. (R. G. Stanton) 32 #2343

Some comments on the question of identifiability of parameters raised by Rao. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.*, 1963*), pp.* 333-336. *Statistical Publishing Society. Calcutta*, 1965. (Editors) 35 #5057

A class of contagious distributions and maximum likelihood estimation. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.*, 1963*), pp.* 337-350. *Statistical Publishing Society, Calcutta*, 1965. (Editors) 35 #3798

Transformations and sufficiency. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 479-485. (R. H. Berk) 33 #6749

Some comments on the question of identifiability of parameters raised by Rao. *Sankhyā Ser. A* 27 (1965), 365-368. (A. C. Cohen) 35 #5058

A class of contagious distributions amd xamimum likelihood estimation. *Sankhyā Ser. A* 27 (1965), 369-382. (A. C. Cohen) 35 #3799

The estimation of prior distributions in problems of decision. *Sankhyā Ser. A* 29 (1967), 227-238. 37 #2368

(with Kalbfleisch, John D.) Examples of likelihoods and comparison with point estimates and large sample approximations. *J. Amer. Statist. Assoc.* 64 (1969), 468-484. (Authors' summary) 39 #7720

(with Kalbfleisch, John D.) Application of likelihood methods to models involving large numbers of parameters. (With discussion) *J. Roy. Statist. Soc. Ser. B* 32 (1970), 175-208. (T. Pitcher) 42 #5362

Spruch, Larry

(with Kahn, Yukap; O'Malley, Thomas F.) Static approximation and bounds on single-channel phase shifts. *Phys. Rev.* (2) 128 (1962), 932-942. (S. Rosendorff) 29 #934 (with Kalikstein, Kalman) Scattering of electromagnetic waves by a ferrite in a waveguide. *J. Mathematical Phys.* 5 (1964), 1261-1272. (J. W. Moffat) 29 #6819

Sprung, Donald W. L.

Energy gap at the Fermi surface of nuclear matter. *Ann. Physics* 31 (1965), 342-369. (J. L. Gammel) 31 #3118

(with Hughes, D. J.) Gauss weights and ordinates for $\int_0^1 f(x)x^2dx$. *Math. Comp.* 19 (1965), 139-142. (T. Erber) 30 #3573

Sprzeuzkouski, Alain Y.

A problem in optimal stock management. *J. Optimization Theory Appl.* 1 (1967), 232-241. (Author's summary) 39 #3796

Spulber, Dorian

A generalization of the Möbius function. (Romanian. English summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 12 (1966), 253-258. (E. Grosswald) 36 #5072

Generalization of a theorem of Feller-Swokowski. (Romanian. English summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 299-305. (E. Enochs) 41 #3527

Sur une classe des anneaux de Prufer. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A365-A367. (C. F. Moppert) 42 #4531

(with Popescu, Nicolae) Sur les quasi-ordres (à gauche) dans un annequ. *J. Algebra* 17 (1971), 474-481. (R. B. Tarsy) 43 #282

van der Spuy, E.

Role for a fundamental equation in fundamental theory of matter. *Nuclear Phys.* 58 (1964), 353-373. (R. F. Streater) 31 #6569

Broken symmetry and massless interaction free bosons. *Nuclear Phys.* 60 (1964), 686-693. (S. Bludman) 31 #3036

Spycher, Ulrich

(with Vontobel, Jürg) Geometrische Überlegungen zum Problem der Schriftzeichenerkennung. (English summary) *Z. Angew. Math. Phys.* 22 (1971), 66-78. (F. W. Stallmann) 44 #3535

Spÿker, M. N. See Spijker, Marc Nico.

Squier, D. P.

On the existence and uniqueness of solutions of the Poisson interface problem. *Amer. J. Math.* 85 (1963), 241-247. (A. Friedman) 31 #1395

Non-linear difference schemes. *J. Approximation Theory* 1 (1968), 236-242. (W. A. Al-Salam) 38 #2953

One-step methods for ordinary differential equations. *Numer. Math.* 13 (1969), 176-179. (T. E. Hull) 40 #1034

Elliptic differential equations with discontinuous coefficients. *Pacific J. Math.* 30 (1969), 247-254. (J. R. Cannon) 39 #7278

Squire, William

The relation between absolute iteration and Newton's method. *Proc. West Virginia Acad. Sci.* 37 (1965), 262-265 (1966). (Author's summary) 37 #1075

Squires, Euan J.

An introduction to relativistic S matrix theory. *Strong Interactions and High Energy Physics (Scottish Universities' Summer School,* 1963*), pp.* 1-80. *Plenum Press, New York,* 1964. (P. Roman) 30 #5723

High-energy behaviour of partial-wave amplitudes. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1277-1282. (R. L. Omnès) 32 #3521

A random-phase approximation in high-energy scattering. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1328-1336. (P. W. Higgs) 32 #3522

Inelasticity and partial-wave dispersion relations. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1751-1755. (R. L. Warnock) 31 #3051

On the bootstrap solution of a soluble model. *Nuovo Cimento* (10) 37 (1965), 1749-1751. (W. D. McGlinn) 33 #8181

(with Olesen, P.) The N/D method and the diffraction picture. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 956-966. (D. I. Olive) 33 #1017

(with Kumar, R. C.) A numerical investigation of the random-phase method in high-energy scattering. (Italian summary) *Nuovo Cimento A* (10) 40 (1965), 756-760. (Authors' summary) 32 #8744

(with Ringland, G. A.) The Regge recurrence of the Pomeranchuk trajectory as a member of a unitary octet of spin 2 mesons. *Phys. Lett.* 16 (1965), 86-87. (S. F. Tuan) 32 #2095

Šragin, I. V.

The boundedness of the Nemyckiĭ operator in Orlicz spaces. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 119-122. (J. Král) 35 #5986

On the question of the continuity of the Nemyckiĭ operator in Orlicz spaces. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 70 (1964), 49-51. (A. Haimovici) 32 #2871

Some properties of the Nemyckiĭ operator in Orlicz spaces. (Russian) *Mat. Sb. (N.S.)* 65(107)(1964), 324-337. (J. Albrycht) 30 #1394

(with Vaĭnberg, M. M.) The Hammerstein operator in Orlicz spaces. I. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 17-27. (G. J. Minty) 32 #4568

(with Vaĭnberg, M. M.) The Hammerstein operator in Orlicz spaces. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46), 32-37. (R. G. Bartle) 32 #4569

The Hammerstein equation in the space of continuous functions. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 40-43. (S. Burýšek) 34 #1891

Topological and metric properties of Young's class as a subset of an Orlicz space. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 91 (1967), 81-90. (T. Andô) 41 #5961

The Amemiya norm in an Orlicz-Nakano space. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 91 (1967), 91-102. (M. Alić) 42 #3560

On the theory of Orlicz spaces. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1064-1066. (T. Shimogaki) 37 #3344

Measurability of the supremum and of the function which realizes it. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 215-219. (H. O. Fattorini) 41 #5583

(with Levčenko, V. I.) Nemyckiĭ's operator acting from the space of continuous functions into an Orlicz-Nakano space. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 91-100. (W. Słowikowski) 42 #3626

The Nemyckiĭ operator in spaces which are generated by genfunctions. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 63-66. (B. T. Poljak) 40 #7837

A generalization of a certain theorem of M. M. Vaĭnberg. (Russian) *Trudy Tambov. Inst. Him. Mašinostroenija Vyp.* 3 (1969), 3-7. (Z. Diviš) 42 #5126

Measurability of a superposition of discontinuous functions. (Russian) *Trudy Tambov. Inst. Him. Mašinostroenija Vyp.* 3 (1969), 7-9. (H. O. Fattorini) 42 #6180

}

Sragovič, V. G.

(with Flerov, Ju. A.) Construction of a class of optimal automata. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 1236-1237. (G. Asser) 30 #1900

}

Šranka, R. K.

(with Lorenc, A. A.) Certain questions of extension of an incompletely defined function to a quasi-monotone function. (Russian) *Avtomat. i Vyčisl. Tehn.* 15 (1966), 31-41. (J. Kuntzmann) 40 #1292

Srebro, Uri

Groups of linear fractional transformations. *Duke Math. J.* 34 (1967), 49-52. (R. J. Sibner) 34 #7797

Conformal capacity and quasiconformal mappings in R^n. *Israel J. Math.* 9 (1971), 93-110. (K. Strebel) 44 #5458

Średniawa, Bronisław

(with Kotański, A.; Zalewski, K.) Physical bounds for the components of statistical tensors. *Nuclear Phys.* B23 (1970), 541-546. (Z. Janković) 42 #5570

Sreedhar, N.

(with Rao, S. N.) Stability of a system of linear differential equations. *IEEE Trans. Automatic Control* AC-13 (1968), 307-308. (Authors' summary) 38 #3531

Concerning Liapunov functions for linear systems. I. *Internat. J. Control.* (1) 11 (1970), 165-171. (Author's summary) 42 #3370

Sreedharan, V. P.

Function-theoretic solutions of certain boundary-value problems. *J. Math. Mech.* 14 (1965), 211-230. (Y. Hayashi) 30 #4062

A short proof of the duality theorem of linear programming. *J. Soc. Indust. Appl. Math.* 13 (1965), 423-424. 31 #3225

(with Grünbaum, Branko) An enumeration of simplicial 4-polytopes with 8 vertices. *J. Combinatorial Theory* 2 (1967), 437-465. (D. W. Barnette) 35 #6025

A Wiener-Hopf integral equation. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 191-201. (E. Meister) 38 #2552

(with Duris, C. S.) Chebyshev and l^1-solutions of linear equations using least squares solutions. *SIAM J. Numer. Anal.* 5 (1968), 491-505. (V. Pereyra) 38 #4011

Solutions of overdetermined linear equations which minimize error in an abstract norm. *Numer. Math.* 13 (1969), 146-151. (C. G. Cullen) 40 #3701

Sreedharan Pillai, K. C. See Pillai, K. C. Sreedharan.

Sreehari, M.

A limit theorem for the maximum of cumulative sums. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 117-120. (R. Fischler) 38 #1727

(with Pakshirajan, R. P.) The law of the iterated logarithm for a Markov process. *Ann. Math. Statist.* 41 (1970), 945-955. (G. K. Eagleson) 41 #9331

On a class of limit destributions for normalized sums of independent random variables. (Russian summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 269-290. (J. D. Mason) 42 #5311

A limit theorem for the maximum of normalized partial sums. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 22-28. (G. K. Eagleson) 43 #5592

Sreenath, P. R.

(with Sardana, M. G.) Construction and analysis of designs of the type $K^2 \times 2^n$ in $k^2 \times 2^p$ plot blocks. *Calcutta Statist. Assoc. Bull.* 14 (1965), 74-79. (M. Atiqullah) 31 #4733

(with Sardana, M. G.) Construction and analysis of designs $(2q + 1) \times 2^n$ in $(2q + 2) \times 2^p$ plot blocks. *Calcutta Statist. Assoc. Bull.* 16 (1967), 29-36. (S. Addelman) 35 #5098

Sreenivasa Iyengar, N. See Iyengar, N. Sreenivasa.

Sreenivasa Rao, K. N. See Srinivasa, K. N.

Sreenivasulu, V.

(with Singh, S. K.) A note on entire functions. (Turkish summary) *Istanbul Üniv. Fen. Fak. Mec. Ser. A* 30 (1965), 71-75 (1968). (A. R. Reddy) 38 #6071

On the derivatives of a meromorphic function. *Indian J. Math.* 8 (1966), 91-93. (S. M. Shah) 35 #3062

The maximum term of an entire function. *Math. Student* 34 (1966), 141-145 (1968). (Editors) 37 #4261

The maximum term and the rank of an entire function. *Canad. J. Math.* 21 (1969), 257-261. (S. M. Shah) 39 #2977

On meromorphic functions of non-integral and zero order. *Math. Student* 36 (1968), 207-214 (1969). (J. Nikolaus) 42 #511

The maximum term and the rank of an entire function. *Math. Student* 36 (1968), 215-217 (1969). (H. Kober) 41 #8674

"The maximum term and the rank of an entire function": Corrigendum. *Canad. J. Math.* 23 (1971), 131. (S. M. Shah) 42 #6230

Šreĭder, Ju. A.

(with Poljak, B. T.) Application of Walsh polynomials in approximate calculations. (Russian) *Problems in Theory of Mathematical Machines. Collection II, pp.* 174-190. *Fizmatgiz, Moscow,* 1962. (R. P. Boas, Jr.) 31 #6084

* (with Buslenko, N. P.) Die Monte-Carlo-Methode und ihre Verwirklichung mit elektronischen Digitalrechnern. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1964. 191 *pp.* (P. Läuchli) 30 #737

(See also Method of statistical testing, 31 #6348)

(with Osipova, M. A.) Programming on the basis of command layers and the structure of digital computers. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 525-535. (P. Constantinescu) 30 #740

* (with Buslenko, N. P.; Golenko, D. I.; Sobol′, I. M.; Sragovič, V. G.) The Monte Carlo method. The method of statistical trials. Edited by Ju. A. Šreĭder. Translated from the Russian by G. J. Tee. Translation edited by D. M. Parkyn. International series of Monographs in Pure and Applied Mathematics, Vol. 87. *Pergamon Press, Oxford-New York-Paris,* 1966. xii + 381 *pp. (loose errata).* (Editors) 35 #2455

Banach functionals and ergodic theorems. (Russian) *Mat. Zametki* 2 (1967), 385-394. (R. Sikowski) 36 #5724

An adjacent language model. (Russian) *Tartu Riikl. Ül. Toimetised Vih.* 226 (1969), 129-142. (I. Kramosil) 43 #6029

Sretenskiĭ, L. N.

The creative power of Henri Poincaré (on the fiftieth anniversary of his death). (Russian) *Voprosy Ĭstor. Estest. i Tehn. No.* 15 (1963), 30-46. (Editors) 31 #14

Periodic waves generated by a source located above a sloping bottom. *Prikl. Mat. Meh.* 27 (1963), 1012-1025 *(Russian); translated as J. Appl. Math. Mech.* 27 (1964), 1557-1576. (E. V. Laitone) 29 #4343

Ivar Fredholm: Biography and scientific research. (Russian) *Histroy Methodology Natur. Sci., No. V, Math. (Russian), pp.* 150-156. *Izdat. Moskov. Univ., Moscow,* 1966. (L. Guggenbuhl) 34 #15

Srétensky, L. N. See Sretenskiĭ, L. N.

Srettensky, L. N. See Sretenskiĭ, L. N.

Sridhar, R.

(with Prasanna Kumar, K. S.) On the identification of control systems by the quasi-linearization method. *IEEE Trans. Automatic Control* AC-9 (1964), 151-154. 31 #4661

(with Bellman, R.; Kalaba, R.) Adaptive control via quasilinearization and differential approximation. (German summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 8-17. 32 #7306

(with Pearson, J. B., Jr.) A discrete optimal control problem. *IEEE Trans. Automatic Control* AC-11 (1966), 171-174. (L. D. Berkovitz) 34 #4038

(with Bellman, R. E.; Kagiwada, H. H.; Kalaba, R. E.) Invariant imbedding and nonlinear filtering theory. *J. Astronaut. Sci.* 13 (1966), 110-115. (R. Tomović) 34 #5565

(with Kagiwada, H.; Kalaba, R. E.; Schumitzky, A.) Cauchy and Fredholm methods for Euler equations. *J. Optimization Theory Appl.* 2 (1968), 157-163. (Authors' summary) 39 #3368

(with Kagiwada, H. H.; Kalaba, R. E.; Schumitzky, A.) An integral equation and a representation for a Green's function. *J. Optimization Theory Appl.* 2 (1968), 226-229. 39 #3082

(with Kalaba, R.) Invariant imbedding and optimal control theory. *J. Optimization Theory Appl.* 4 (1969), 343-351. (A. Strauss) 40 #3399

(with Kalaba, R.) Invariant imbedding and the simplest problem in the calculus of variations. *J. Math. Anal. Appl.* 30 (1970), 79-85. (H. S. P. Grässer) 40 #6326

(with Bejczy, A. K.) Analytical methods for performance evaluation of nonlinear filters. *J. Math. Anal. Appl.* 36 (1971), 477-505. (Richard Gran) 44 #2522

Śrīdhara

(See Volodarskiĭ, A. I., 35 #1433a and 35 #1433c)

Pāṭīganita. (Russian) Translated from the Sanskrit by O. F. Volkova and A. I. Volodarskiĭ. *Phys. Math. Sci. in the East (Russian), pp.* 160-181. *Izdat. "Nauka", Moscow,* 1966. (E. S. Kennedy) 35 #1433b

Sridharan, M. R.

(with Parthasarathy, K. R.) Enumeration of self-complementary graphs and digraphs. *J. Mathematical and Physical Sci.* 3 (1969), 410-414. (W. Dörfler) 41 #8308

Self-complementary and self-converse oriented graphs. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 441-447. (E. M. Palmer) 43 #6138

Sridharan, R.

* (with Narasimhan, M. S.; Ramanan, S.; Varadarajan, K.) Algebraic topology. Mathematical Pamphlets, 2. *Tata Institute of Fundamental Research. Bombay,* 1964. v + 39 *pp.* (From the Preface) 41 #2659

* (with Murthy, M. Pavaman; Ramanathan, K. G.; Seshadri, C. S.; Shukla, U.) Galois theory. Mathematical Pamphlets, 3. *Tata Institute of Fundamental Research, Bombay,* 1965, v + 63 *pp.* (From the preface) 41 #1700

Filtered algebras. *Math. Student* 34 (1966), 163 (1968). (Editors) 37 #4139

Homology of non-commutative polynomial rings. *Nagoya Math. J.* 26 (1966), 53-59. (A. Rosenberg) 33 #1349

(with Gopalakrishnan, N. S.) Homological dimension of Ore-extensions. *Pacific J. Math.* 19 (1966), 67-75. (A. J. Douglas) 34 #223

(with Roy, Amit) Derivations in Azumaya algebras. *J. Math. Kyoto Univ.* 7 (1967), 161-167. (S. Yuan) 36 #5125

(with Roy, Amit) Higher derivations and central simple algebras. *Nagoya Math. J.* 32 (1968), 21-30. (S. Yuan) 37 #5255

(with Ojanguren, M.) A note on the fundamental theorem of projective geometry. *Comment. Math. Helv.* 44 (1969), 310-315. (B. L. Osofsky) 39 #4133

(with Ojanguren, M.) A note on purely inseparable extensions. *Comment. Math. Helv.* 44 (1969), 457-461. (S. S. Page) 41 #1708

(with Ojanguren, M.) Cancellation of Azumaya algebras. *J. Algebra* 18 (1971), 501-505. (S. Yuan) 43 #2018

Srinath, Mandyam D.

(with Fu, Yumin; Yen, Andrew T.) A note on multivariate generating functions and applications to discrete stochastic processes. *SIAM Rev.* 7 (1965), 31-41. (P. A. P. Moran) 30 #4294

(with Sastry, V. A.) Sub-optimal policies for two classes of control. *Internat. J. Control* (1) 3 (1966), 497-512. (Henry Hermes) 34 #8850

(with Satyanarayana, N.) Stability of linear regulators optimal for time-multiplied performance indices. *AIAA J.* 8 (1970), 1514-1516. (L. D. Berkovitz) 42 #1558

(with Satyanarayana, N.) Solution of the optimal linear regulator problem from the stability viewpoint. *IEEE Trans. Automatic Control* AC-15 (1970), 590. (Authors' summary) 43 #1710

(with Rajasekaran, P. K.; Satyanarayana, N.) Optimum linear estimation of stochastic signals in the presence of multiplicative noise. *IEEE Trans. Aerospace and Electron. Systems* AES-7 (1971), 462-468. (K. S. Miller) 43 #4543

(with Satyanarayana, N.) Invariance in linear estimators. *J. Math. Anal. Appl.* 37 (1972), 113-117. (N. U. Ahmed) 44 #8002

Srinivasacharyulu, Kilambi

On some bounded domains. *Math. Z.* 90 (1965), 388-390. (J. Hano) 32 #4641

Topology of complex manifolds. *Canad. Math. Bull.* 9 (1966), 23-27. (N. J. Hicks) 34 #831

On complex homogeneous manifolds. *Canad. Math. Bull.* 10 (1967), 251-256. (A. Aeppli) 36 #823

Topology of some Kähler manifolds. *Pacific J. Math.* 23 (1967), 167-169. (R. L. Bishop) 36 #909 (E)

Correction to: "Topology of some Kähler manifolds". *Pacific J. Math.* 23 (1967), 632. (Editors) 36 #2173

On some non-linear problems. *Canad. J. Math.* 20 (1968), 394-397. (L. P. Belluce) 37 #3410

On bounded domains. *Proc. Amer. Math. Soc.* 19 (1968), 171-173. (R. L. Bishop) 36 #3383

Topology of some Kähler manifolds. II. *Canad. Math. Bull.* 12 (1969), 457-460. (R. L. Bishop) 40 #4907

Fixed point theorems. *Symposia on Theoretical Physics and Mathematics, Vol.* 10 *(Inst. Math. Sci., Madras,* 1969*), pp.* 47-49. *Plenum, New York,* 1970. (W. A. Kirk) 41 #7500

Some fixed point theorems. II. *Bull. Soc. Roy. Sci. Liège* 39 (1970), *fasc.* 3-4, 93-95. (W. A. Kirk) 42 #6678

Sur certaines variétés presque complexes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A45-A46. (A. Aeppli) 41 #1077

Srinivasan, B. R.

On the net of conics with a common self-polar triangle. II. *J. Madras Univ. B* 32 (1962), 71-101. (D. J. Struik) 29 #3935

On the fundamental identity of the theory of primes. *Math. Student* 30 (1962), 163-169 (1963). (S. C. van Veen) 29 #2226

Lattice points in a circle. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 332-346. (S. Chowla) 29 #2227

The lattice point problem of many dimensioanl hyperboloids. III. *Math. Ann.* 160 (1965), 280-311. (S. Chowla) 31 #5842

Weakly inverse semigroups. *Math. Ann.* 176 (1968), 324-333. (J. Kist) 37 #332

Srinivasan, Bhama

The modular representation ring of a cyclic *p*-group. *Proc. London Math. Soc.* (3) 14 (1964), 677-688. (C. W. Curtis) 29 #5924

The characters of the finite symplectic group *Sp(4,q)*. *Trans. Amer. Math. Soc.* 131 (1968), 488-525. (H. K. Farahat) 36 #3897

Srinivasan, J.

(with Sastri, K. S.) Convective hydromagnetic flow between parallel porous walls. *J. Sci. Engrg. Res.* 8 (1964), 1-12. (I. M. Cohen) 30 #4466

Srinivasan, Jayadev

Some remarks on Baire spaces. *Portugal. Math.* 26 (1967), 213-219. (B. J. Ball) 41 #2606

Some remarks on functional spaces and functional completion. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1031-1033. (T. H. Hildebrandt) 38 #4950

Srinivasan, P.

(with Dasarathy, B. V.) Study of a class of nonlinear systems. *AIAA J.* 6 (1968), 736-737. (O. E. Stanaitis) 41 #5677

(with Dasarathy, B. V.) Class of nonlinear third-order systems. *AIAA J.* 6 (1968), 1400-1401. (O. E. Stanaitis) 41 #5678

(with Dasarathy, B. V.) On the synthesis of a class of second order nonlinear differential equations. *SIAM J. Appl. Math.* 17 (1969), 511-515. (K. Stewartson) 40 #3782

Srinivasan, R.

The bivariate gamma distribution and the random walk problem. *Proc. Indian Acad. Sci. Sect. A* 62 (1965), 358-366. (Author's summary) 32 #3150

(with Kotz, Samuel) Distribution of product and quotient of Bessel function variates. *Ann. Inst. Statist. Math.* 21 (1969), 201-210. (Authors' summary) 39 #6428

An approach to testing the goodness of fit of incompletely specified distributions. *Biometrika* 57 (1970), 605-611. 43 #1355

Srinivasan, S. Kidambi

(with Iyer, K. S. S.) Sequent correlations in evolutionary stochastic point processes and its application to cascade theories. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 273-285. (From the authors' summary) 32 #3119

(with Ramakrishnan, Alladi; Vasudevan, R.) Some new mathematical features in cascade theory. *J. Math. Anal. Appl.* 11 (1965), 278-289. (G. M. Wing) 32 #968

A novel approach to the theory of shot noise. (Italian summary) *Nuovo Ciemnto* (10) 38 (1965), 979-992. (Author's summary) 32 #8416

(with Iyer, K. S. S.) Random processes associated with random points on a line. (Polish and Russian summaries) *Zastos. Mat.* 8 (1966), 221-230. (R. F. Drenick) 34 #2098

Stochastic point processes: A phenomenological approach. *J. Mathematical And Physical Sci.* 1 (1967), *no.* 1-2, 1-37. (F. J. Beutler) 36 #5997

(with Koteswara Rao, N. V.) Non-Markovian process in dams and storage systems. *J. Mathematical and Physical Sci.* 1 (1967), *no.* 3, 180-189. 38 #3941

(with Ramakrishnan, Alladi; Vasudevan, R.) Multiple product densities. *J. Mathematical and Physical Sci.* 1 (1967), 275-279. (T. V. Avadhani) 40 #959

(with Koteswara Rao, N. V.) Invariant imbedding technique and age-dependent birth and death processes. *J. Math. Anal. Appl.* 21 (1968), 43-52. (K. Dietz) 36 #4655

* Stochastic theory and cascade processes. *American Elsevier Publishing Co., Inc., New York,* 1969. xvi + 216 pp. (L. Takács) 41 #6324

(with Subramanian, R.) Queuing theory and imbedded renewal processes. *J. Mathematical and Physical Sci.* 3 (1969), 221-244. (S. Ekberg) 41 #9379

(with Rangan, A.) Age dependent stochastic models for phage reproduction. *J. Appl. Probability* 7 (1970), 251-261. (Authors' summary) 41 #6344

(with Rajamannar, G.) Selective interaction between two independent stationary recurrent point processes. *J. Appl. Probability* 7 (1970), 476-482. (M. M. Siddiqui) 42 #1230

(with Rajamannar, G.) Counter models and dependent renewal point processes related to neuronal firing. *Math. Biosci.* 7 (1970), 27-39. (P. M. Lee) 43 #2780 (E)

(with Rajamannar, G.) Addendum to "Counter models and dependent renewal point processes related to neuronal firing". *Math. Biosci.* 9 (1970), 29. (P. M. Lee) 44 #2284

(with Rajamannar, G.; Rangan, A.) Stochastic models for neuronal firing. *Kybernetik (Berlin)* 8 (1971), *Heft* 5, 188-193. (P. Holgate) 44 #6359

Srinivasan, T. P.

(with Hasumi, Morisuke) Doubly invariant subspaces. II. *Pacific J. Math.* 14 (1964), 525-535. (A. Browder) 29 #1529

Doubly invariant subspaces. *Pacific J. Math.* 14 (1964), 701-707. (A. Browder) 29 #1528

(with Hasumi, Morisuke) Invariant subspaces of continuous functions. *Canad. J. Math.* 17 (1965), 643-651. (R. G. Douglas) 31 #3871

The disc algebra and its generalisations. *Math. Student* 33 (1965), 1-10. (A. Edrei) 33 #294

(with Wang, Ju-Kwei) On closed ideals of analytic functions. *Proc. Amer. Math. Soc.* 16 (1965), 49-52. (H. S. Bear) 30 #462

Simply invariant subspaces and generalized analytic functions. *Proc. Amer. Math. Soc.* 16 (1965), 813-818. (A. Browder) 34 #8219

(with Wang, Ju-kwei) Weak *-Dirichlet algebras. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 216-249. *Scott-Foresman, Chicago, Ill.,* 1966. (A. Figà-Talamanca) 33 #6441

(with Tewari, U. B.) A Stone-Weierstrass theorem for semigroups. *Bull. Amer. Math. Soc.* 74 (1968), 1125-1127. (J. Kist) 38 #2236

(with Kelley, J. L.) Pre-measures on lattices of sets. *Math. Ann.* 190 (1970/71), 233-241. (S. Papadopoulou) 43 #4990

(with Kalpakam, S.) Imbedding equations in queueing theory. *J. Math. Anal. Appl.* 33 (1971), 435-442. (J. J. Hunter) 42 #5357

Srinivasan, V. K.

(with Rangachari, M. S.) Matrix transformations in non-archimedian fields. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 422-429. (M. R. Parameswaran) 30 #3330

On certain summation processes in the *p*-adic field. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 319-325. (D. Vaida) 33 #4524

Remarks on fixed-point theorems. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 115-118. (M. Edelstein) 33 #1716

On the ideal structure of the algebra of integral functions. *Proc. Nat. Inst. Sci. India Part A* 31 (1965), 368-374. (J. G. Horne) 34 #1877

Srinivasa Rao, K. N.

(with Saroja, D.) The resolution into minimal ideals of the enveloping algebra of the Lie algebra of the rotation group in four dimensions with spin 3/2. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 239-250. (Authors' summary) 40 #3822

Srinivasiengar, C. N.

* (with Bhatnagar, P. L.) The theory of infinite series. *National Publishing House, Delhi,* 1964. vii + 196 pp. (R. P. Boas, Jr.) 29 #3784

* The history of ancient Indian mathematics. *The World Press Private, Ltd., Calcutta,* 1967. vii + 157 pp. (E. B. Allen) 36 #1264

Srivastara, H. M. See Srivastava, Hari M.

Srivastav, R. P.

(with Sneddon, I. N.) Dual series relations. I. Dual relations involving Fourier-Bessel series. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 150-160 (1964). (A. E. Danese) 29 #3816

Dual series relations. II. Dual relations involving Dini Series. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 161-172 (1964). (A. E. Danese) 29 #3817

Dual series relations. III. Dual relations involving trigonometric series. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 173-184 (1964). (A. E. Danese) 29 #3818

Dual series relations. IV. Dual relations involving series of Jacobi polynomials. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 185-191 (1964). (A. E. Danese) 29 #3819

Dual series relations. V. A generalized Schlömilch series and the uniqueness of the solution of dual equations involving trigonometric series. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1963/64), 258-268 (1965). (A. E. Danese) 30 #4113

A relation between Dirac-delta function and certain infinite series involving Bessel functions. *Gaṇita* 15 (1964), 93-96. (B. R. Bhonsle) 34 #6169

An axisymmetric mixed boundary value problem for a half-space with a cylindrical cavity. *J. Math. Mech.* 13 (1964), 385-393. (N. Pahareva (RŽMat 1965 #4 B324)) 35 #1975

A pair of dual integral equations involving Bessel functions of the first and the second kind. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 149-158. (W. E. Williams) 30 #4122

Certain two-dimensional mixed boundary-value problems for wedge-shaped regions and dual integral equations. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 321-332. (R. A. Westmann) 33 #1676

(with Narain, Prem) Some mixed boundary value problems for regions with spherical boundaries. *J. Math. Mech.* 14 (1965), 613-627. (A. Erdélyi) 31 #1452

(with Narian, Prem) Certain two-dimensional probelms of stress distribution in wedge-shaped elastic solids under discontinuous load. *Proc. Cambridge Philos. Soc.* 61 (1965), 945-954. (Y. C. Fung) 32 #646

On certain integral equations of convolution type with Bessel-function kernels. *Proc. Edinburgh Math. Soc.* (2) 15 (1966/67), 111-116. (H. Kober) 36 #4300 (with Parihar, K. S.) Dual and triple integral equations involving inverse Mellin transforms. *SIAM J. Appl. Math.* 16 (1968), 126-133. (A. Erdélyi) 36 #5639

Srivastava, A. B. L.

(with Webster, Harold) An estimation of true scores in the case of items scored on a continuous scale. *Psychometrika* 32 (1967), 327-338. (A. K. Gayen) 36 #1015

(with Srivastava, R. C.) On a characterization of Poisson distribution. *J. Appl. Probability* 7 (1970), 497-501. (E. H. Lehman) 41 #7741

Srivastava, A. C.

Torsional oscillations of an infinite plate in second-order fluids. *J. Fluid Mech.* 17 (1963), 171-181. (A. C. Pipkin) 29 #6772

(with Sharma, S. K.) Torsional oscillations of an infinite plate in elastico-viscous liquids. *Univ. Roorkee Res. J.* 6 (1963), *no.* 1, 79-93. (J. W. Craggs) 32 #722

Note on fluctuating flow near a stagnation point. *J. Fluid Mech.* 20 (1964), 411-416. (N. Riley) 30 #1694

Srivastava, Aruna

(with Gupta, K. C.) On certain recurrence relations. *Math. Nachr.* 46 (1970), 13-23. (S. K. Bose) 42 #6299

(with Gupta, K. C.) On integrals involving generalized hypergeometric functions. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 3, 495-500. (R. N. Jain) 44 #481

Srivastava, G. P.

A characterisation of Jacobi's polynomials. *Gaṇita* 18 (1967), *no.* 2, 59-66. (H. M. Srivastava) 39 #5844

(with Saran, S.) Integrals involving Kampé de Fériet function. *Math. Z.* 98 (1967), 119-125. (A. Erdélyi) 35 #1838

(with Saran, S.) A theorem on Kampé de Fériet function. *Proc. Cambridge Philos. Soc.* 64 (1968), 435-437. (L. J. Slater) 36 #5404

(with Saran, S.) Saalschützian theorems for Kampé de Fériet function. *Gaṇita* 20 (1969), *no.* 1, 65-73. (K. N. Srivastava) 42 #2053

Some new transformations of Appell's functions and their generalizations. *Gaṇita* 20 (1969), *no.* 2, 69-76. (W. A. Al-Salam) 44 #487

(with Saran, S.) A general theorem on a Kampé de Fériet function. *Math. Notae* 21 (1968/69), 105-111. (B. R. Bhonsle) 44 #486

Srivastava, G. S.

On entire functions of slow growth represented by Dirichlet series. *Ann. Polon. Math.* 24 (1970/71), 149-158. (M. E. Noble) 44 #1804

A note on logarithmic proximate order of entire functions represented by Dirichlet series. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 199-202. (M. E. Noble) 44 #1805

Srivastava, Hari M.

An entire function associated with the Bessel functions. *Collect. Math.* 16 (1964), 127-148. (A. E. Danese) 32 #7799

Hypergeometric functions of three variables. *Gaṇita* 15 (1964), 97-108. (J. A. Donaldson) 35 #1839

On integrals associated with certain hypergeometric functions of three variables. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 309-316. (L. J. Slater) 31 #3638

(with Saran, S.) On differential equations associated with certain hypergeometric functions of three variables. *Gaṇita* 16 (1965), 139-149. (J. A. Donaldson) 35 #3128

A note on Jacobi and Laguerre polynomials. *Math. Japon.* 10 (1965), 40-44. (R. K. Saxena) 32 #5953

Some expansions of generalized Whittaker functions. *Proc. Cambridge Philos. Soc.* 61 (1965), 895-896. (J. A. Donaldson) 32 #1381

On the sums of certain generalised hypergeometric series. *Proc. Nat. Acad. Sci. India Sect. A* 35 (1965), 37-42. (R. K. Saxena) 32 #5937

On transformations of certain hypergeometric functions of three variables. *Publ. Math. Debrecen* 12 (1965), 65-74. (R. K. Saxena) 32 #5938

Some integrals involving products of Bessel and Legendre functions. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 418-423. (F. W. J. Olver) 33 #4336

On Bessel, Jacobi and Laguerre polynomials. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 424-432. (Author's summary) 33 #4346

On the reducibility of certain hypergeometric functions. *Ricerca (Napoli)* (2) 16 (1965), *settembre-dicembre*, 7-12 (1967). (S. K. Chatterjea) 39 #7161

Note on generalized Laguerre polynomials. *Bull. Calcutta Math. Soc.* 58 (1966), 81-82. (A. E. Danese) 40 #423

(with Singhal, J. P.) A note on certain hypergeometric functions of two and three variables. *Gaṇita* 17 (1966), 99-108. (M. Nassif) 37 #3062

On a relation between Laplace and Hankel transforms. *Matematiche (Catania)* 21 (1966), 199-202. (V. P. Mainra) 34 #3239

A relation between Meijer and generalized Hankel transforms. *Math. Japon.* 11 (1966), 11-13. (H. Kober) 34 #3240

The products of certain classical polynomials. *Math. Japon.* 11 (1966), 67-76. (A. E. Danese) 34 #4576

Some expansions in products of hypergeometric functions. *Proc. Cambridge Philos. Soc.* 62 (1966), 245-247. (W. A. Al-Salam) 32 #5939

The integration of generalized hypergeometric functions. *Proc. Cambridge Philos. Soc.* 62 (1966), 761-764. (L. J. Slater) 33 #5955

A hypergeometric transformation associated with the Appell function F_4. *Proc. Cambridge Philos. Soc.* 62 (1966), 765-767. (L. J. Slater) 33 #5956

Some expansions in Bessel functions involving generalised hypergeometric functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 145-151. (Y. L. Luke) 40 #2929

Relations between functions contiguous to certain hypergeometric functions of three variables. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 377-385. (Y. L. Luke) 40 #2918

(with Singhal, J. P.) Contour integrals associated with certain generalised hypergeometric functions. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 824-840. (T. Erber) 41 #2069

On the reducibility of certain hypergeometric functions. *Univ. Nac. Tucumán Rev. Ser. A* 16 (1966), 7-14. (R. K. Saxena) 37 #6500

Some expansions involving orthogonal polynomials. *Portugal. Math.* 26 (1967), 15-21. (R. P. Srivastav) 40 #5917

Generalized Neumann expansions involving hypergeometric functions. *Proc. Cambridge Philos. Soc.* 63 (1967), 425-429. (L. J. Slater) 34 #7832

On a summation formula for the Appell function F_2. *Proc. Cambridge Philos. Soc.* 63 (1967), 1087-1089. (W. A. Al-Salam) 35 #6875

Some integrals representing triple hypergeometric functions. *Rend. Circ. Mat. Palermo* (2) 16 (1967), 99-115. (R. A. Askey) 39 #3046

Some integrals involving products of Bessel and Legendre functions. II. *Rend. Sem. Mat. Univ. Padova* 37 (1967), 1-10. (F. W. J. Olver) 35 #3093

Some expansions associated with Bessel and hypergeometric functions. *Rend. Sem. Mat. Univ. Padova* 37 (1967), 11-17. (W. A. Al-Salam) 35 #5671

(with Joshi, C. M.) Certain double Whittaker transforms of generalized hypergeometric functions. *Yokohama Math. J.* 15 (1967), 17-32. (W. A. Al-Salam) 38 #2542

Integration of certain products containing Jacobi polynomials. *Collect. Math.* 19 (1968), 3-9. (J. L. Fields) 39 #1693

Fractional integration and inversion formulae associated with the generalized Whittaker transform. *Funkcial. Ekvac.* 11 (1968), 69-74. (V. P. Mainra) 39 #3248

A note on a function analogous to Bourget's function. *Gaṇita* 19 (1968), *no.* 2, 45-48. (S. L. Kalla) 43 #2254

(with Joshi, C. M.) Certain integrals involving a generalized Meijer function. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23) (1968), 183-191. (J. A. Donaldson) 38 #3477a

Finite summation formulas associated with a class of generalized hypergeometric polynomials. *J. Math. Anal. Appl.* 23 (1968), 453-458. (L. J. Slater) 37 #4300

A note on a generalization of Sonine's first finite integral. *Matematiche (Catania)* 23 (1968), 1-6. (Y. L. Luke) 39 #1695

Some integrals representing triple hypergeometric functions. *Math. Japon.* 13 (1968), 55-69. (M. Nassif) 39 #1694

Certain properties of a generalized Whittaker transform. *Mathematica (Cluj)* 10(33) (1968), 385-390. (R. K. Saxena) 39 #4617

Some theorems on Hardy transform. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 316-320. (R. A. Askey) 38 #2543

A relation between generalized Laplace and Hardy transforms. *Nieuw Arch. Wisk.* (3) 16 (1968), 79-81. (V. P. Mainra) 39 #3249

Fractional integration and inversion formulae associated with the generalized Whittaker transform. *Pacific J. Math.* 26 (1968), 375-377. (C. Fox) 38 #1479

(with Singhal, J. P.) Double Meijer transformations of certain hypergeometric functions. *Proc. Cambridge Philos. Soc.* 64 (1968), 425-430. (L. J. Slater) 36 #6660

On an extension of the Mittag-Leffler function. *Yokohama Math. J.* 16 (1968), 77-88. (R. A. Askey) 39 #3066

On certain relations between ultraspherical polynomials and Humbert function. *Gaṇita* 20 (1969), *no.* 2, 23-28. (J. A. Donaldson) 43 #2256

Infinite series of certain products involving Appell's double hypergeometric functions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 67-73. (T. Erber) 39 #4455

A note on certain formulas involving hypergeometric functions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 201-205. (J. W. Brown) 41 #2070

On a generating function for the Jacobi polynomial. *J. Math. Sci.* 4 (1969), 61-68. (R. N. Jain) 43 #6479

An extension of the Hille-Hardy formula. *Math. Comp.* 23 (1969), 305-311. (Y. L. Luke) 39 #4456

On a generalized integral transform. *Math. Z.* 108 (1969), 197-201. (V. M. Bhise) 39 #1915

(with Vyas, Om Dutta) A theorem relating generalized Hankel and Whittaker transforms. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 140-144. (R. K. Saxena) 39 #4618

(with Daoust, Martha C.) Certain generalized Neumann expansions associated with the Kampé de Fériet function. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 449-457. (W. A. Al-Salam) 40 #5918

On a convolution for the Dixon series. *Nordisk Mat. Tidskr.* 17 (1969), 37-38, 60. (Author's summary) 39 #4542

A note on certain dual series equations involving Laguerre polynomials. *Pacific J. Math.* 30 (1969), 525-527. (D. L. Colton) 39 #7370

Generating functions for Jacobi and Laguerre polynomials. *Proc. Amer. Math. Soc.* 23 (1969), 590-595. (R. A. Askey) 40 #2935

(with Joshi, C. M.) Integration of certain products associated with a generalized Meijer function. *Proc. Cambridge Philos. Soc.* 65 (1969), 471-477. (J. A. Donaldson) 38 #3477b

An infinite summation formula associated with Appell's function F_2. *Proc. Cambridge Philos. Soc.* 65 (1969), 679-682. (Brij Mohan) 38 #6116

Addendum to: "A hypergeometric transformation associated with the Appell function F_4". *Proc. Cambridge Philos. Soc.* 66 (1969), 569-570. (L. J. Slater) 39 #7162

Certain series involving products of Laguerre polynomials. *Proc. Indian Acad. Sci. Sect. A* 70 (1969), 102-106. (D. L. Colton) 40 #4504

Some bilinear generating functions. *Proc. Nat. Acad. Sci. U.S.A.* 64 (1969), 462-465. (Y. L. Luke) 42 #2052

(with Singhal, J. P.) Certain integrals involving Meijer's *G*-function of two variables. *Proc. Nat. Inst. Sci. India Part A* 35 (1969), 64-69. (P. N. Rathie) 40 #4497

(with Daoust, Martha C.) On Eulerian integrals associated with Kampé de Fériet's function. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 199-202. (A. Erdélyi) 39 #7151

Generating functions for a class of polynomials. *Yokohama Math. J.* 17 (1969), 65-71. (L. J. Slater) 41 #3824

Certain formulas associated with generalized Rice polynomials. *Ann. Polon. Math.* 23 (1970/71), 109-115. (R. C. Varma) 42 #6292

On certain series relations involving generalized hypergeometric functions. *Comment. Math. Univ. St. Paul.* 18 (1970), 125-128. (Brij Mohan) 42 #4786

A formal extension of certain generating functions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 229-239. (Brij Mohan) 43 #3508

Dual series relations involving generalized Laguerre polynomials. *J. Math. Anal. Appl.* 31 (1970), 587-594. (R. A. Askey) 42 #3511

Another note on two binomial-coefficient identities of Rosenbaum. *J. Mathematical Phys.* 11 (1970), 2225. (L. D. Baumert) 42 #2952

Certain pairs of inverse series relations. *J. Reine Angew. Math.* 245 (1970), 47-54. (B. R. Bhonsle) 43 #580

Note on a generalization of Saalschütz's theorem. *Kyungpook Math. J.* 10 (1970), 31-35. (R. A. Askey) 41 #8718

A generating function for certain coefficients involving several complex variables. *Proc. Nat. Acad. Sci. U.S.A.* 67 (1970), 1079-1080. (R. A. Askey) 42 #2054

Certain results involving generalized hypergeometric functions. *SIAM J. Math. Anal.* 1 (1970), 75-81. (J. A. Donaldson) 41 #5663

Sur quelques formules de multiplication concernant les polynômes hypergéométriques généralisés. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A661-A664. (J. A. Donaldson) 44 #7005

Formules sommatoires pour les fonctions d'Appell. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A22-A24. (A. K. Agarwal) 44 #1846

On *q*-generating functions and certain formulas of David Zeitlin. *Illinois J. Math.* 15 (1971), 64-72. (K. M. Saksena) 43 #5069

A class of generating functions for generalized hypergeometric polynomials. *J. Math. Anal. Appl.* 35 (1971), 230-235. (R. A. Askey) 43 #3509

On a generalized integral transform. II. *Math. Z.* 121 (1971), 263-272. (V. M. Bhise) 44 #4464

The Weierstrass-Laguerre transform. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 554-556. (L. Artiaga) 43 #831

(with Singhal, J. P.) Some extensions of the Mehler formula. *Proc. Amer. Math. Soc.* 31 (1972), 135-141. (R. A. Askey) 44 #2955

Srivastava, J. N.

(with Bose, R. C.) Mathematical theory of factorial designs. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 780-794. (H. L. Harter) 31 #1748

On the monotonicity property of the three main tests for multivariate analysis of variance. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 77-81. (M. Dwass) 30 #5433

(with Bose, R. C.) Analysis of irregular factorial fractions. *Sankhyā Ser. A* 26 (1964), 117-144. (S. S. Shrikhande) 32 #3227

(with Bose, R. C.) Multidimensional partially balanced designs and their analysis, with applications to partially balanced factorial fractions. *Sankhyā Ser. A* 26 (1964), 145-168. (S. S. Shrikhande) 32 #3228

(with Roy, S. N.) Hierarchical and *p*-block multiresponse designs and their analysis. *Contributions to Statistics, pp.* 419-428. *Statist. Publ. Soc., Calcutta,* 1965. (R. M. Cormack) 35 #6287

A multivariate extension of the Gauss-Markov theorem. *Ann. Inst. Statist. Math.* 17 (1965), 63-66. (J. Kiefer) 30 #5413

Some generalizations of multivariate analysis of variance. *Multivariate Analysis (Proc. Internat. Sympos., Dayton, Ohio, 1965), pp.* 129-145. *Academic Press, New York,* 1966. (N. L. Johnson) 35 #7496

(with Bose, R. C.) Some economic partially balanced 2^m factorial fractions. *Ann. Inst. Statist. Math.* 18 (1966), 57-73. (S. S. Shrikhande) 34 #3734

On testing hypotheses regarding a class of covariance structures. *Psychometrika* 31 (1966), 147-164. (P. S. Dwyer) 33 #6771

Incomplete multiresponse designs. *Sankhyā Ser. A* 28 (1966), 377-388. (P. R. Krishnaiah) 35 #5095

On the extension of Gauss-Markov theorem to complex multivariate linear models. *Ann. Inst. Statist. Math.* 19 (1967), 417-437. (M. M. Siddiqui) 36 #6074

(with Maik, R. L.) On a new property of partially balanced association schemes useful in psychometric structural analysis. *Psychometrika* 32 (1967), 279-289. (G. Tintner) 35 #7497

On a general class of deisgns for multiresponse experiments. *Ann. Math. Statist.* 39 (1968), 1825-1843. (H. L. Harter) 38 #1790

(with Roy, S. N.) Inference on treatment effects in incomplete block designs. (French summary) *Rev. Inst. Internat. Statist.* 36 (1968), 1-6. (E. Seiden) 37 #1035

Some studies on intersection tests in multivariate analysis of variance. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio, 1968), pp.* 145-168. *Academic Press, New York,* 1969. (D. Papamicail) 40 #6688

* (with Anderson, D. A.) Fractional factorial designs for estimating main effects orthogonal to two-factor interactions: 3^n and $2^m \times 3^n$ series. ARL 69-0123. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. iii + 17 *pp.* 40 #6698

* (with Anderson, D. A.) Optimal fractional factorial plans for main effects orthogonal to two-factor interactions: 2^m series. ARL 69-0146. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. iv + 19 *pp.* 40 #6699

(with McDonald, L. L.) On the costwise optimality of hierarchical multiresponse randomized block designs under the trace criterion. *Ann. Inst. Statist. Math.* 21 (1969), 507-514. (J. Kiefer) 41 #4749

Optimal balanced 2^m fractional factorial designs. *Essays in Probability and Statistics, pp.* 689-706. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (K. Vijayan) 42 #1287

(with McDonald, L. L.) On the hierarchical two-response (cyclic PBIB) designs, costwise optimal under the trace criterion. *Ann. Inst. Statist. Math.* 22 (1970), 507-518. (Authors' summary) 43 #1344

(with Anderson, Donald A.) Some basic properties of multidimensional partially balanced designs. *Ann. Math. Statist.* 41 (1970), 1438-1445. (I. M. Chakravarti) 42 #7008

(with Anderson, D. A.) Optimal fractional factorial plans for main effects orthogonal to two-factor interactions: 2^m series. *J. Amer. Statist. Assoc.* 65 (1970), 828-843. 42 #3939

(with Chopra, D. V.) On the characteristic roots of the information matrix of 2^m balanced factorial designs of resolution *V*, with applications. *Ann. Math. Statist.* 42 (1971), 722-734. 44 #3436

(with Anderson, D. A.) Factorial association schemes with applications to the construction of multidimensional partially balanced designs. *Ann. Math. Statist.* 42 (1971), 1167-1181. (I. M. Chakravarti) 44 #7685

Srivastava, K. N.

A relation between Hankel and Hardy transforms. *J. Gakugei Tokushima Univ.* 14 (1963), 55-57. (C. J. Bouwkamp) 30 #4123

On some entire function of any order defined by gap Dirichlet series. *Math. Japon.* 8 (1963), 1-9. (M. E. Noble) 31 #318a

On the derivatives of an entire Dirichlet series. *Math. Japon.* 8 (1963), 11-16. (M. E. Noble) 31 #318b

On some integrals involving Gegenbauer polynomial and Chebychev polynomial of first kind. *Ricerca (Napoli)* (2) 14 (1963), *gennaio-aprile,* 10-16. (A. E. Danese) 29 #4933

On analogies between some series containing Bessel functions and certain integrals. *Ricerca (Napoli)* (2) 14 (1963), *maggio-agosto,* 22-26. (A. Erdélyi) 29 #4932

(with Singh, R. P.) A note on generalization of Laguerre and Humbert polynomials. *Ricerca (Napoli)* (2) 14 (1963), *settembre-dicembre,* 11-21; *errata, ibid.* (2) 15 (1964), *maggio-agosto,* 63. 31 #3648

Application of Mellin transform for the evaluation of certain integrals involving product of Jacobi polynomials. *Bull. Calcutta Math. Soc.* 56 (1964), 191-194. 33 #2838

Integral equations involving a confluent hypergeometric function as kernel. *J. Analyse Math.* 13 (1964), 391-397. (N. K. Chakravarty) 32 #8066

Some polynomials related to the Laguerre polynomial. *J. Indian Math. Soc. (N.S.)* 28 (1964), 43-50 (1965). (L. Carlitz) 31 #5998

On some dual integral equations. *J. Indian Math. Soc. (N.S.)* 28 (1964), 155-162 (1965). (W. E. Williams) 32 #4493

A note on a class of integral equations involving ultraspherical polynomials as kernel. *Math. Japon.* 9 (1964), 83-84. (B. R. Bhonsle) 37 #1905

On some integral equations involving Jacobi polynomials. *Math. Japon.* 9 (1964), 85-88. (B. R. Bhonsle) 37 #1906

On some integrals involving Jacobi's polynomials. II. *Math. Z.* 85 (1964), 257-259. (C. J. Bouwkamp) 30 #2174

Inversion integrals involving Jacobi's polynomials. *Proc. Amer. Math. Soc.* 15 (1964), 635-638. (A. E. Danese) 29 #292

Errata: "A class of integral equations involving ultraspherical polynomials as kernel". *Proc. Amer. Math. Soc.* 15 (1964), 1000. (Editors) 31 #580

On a relation between Hardy and generalized Laplace transforms. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 225-228. (V. P. Mainra) 36 #5621

(with Bhonsle, B. R.) A relation between Hankel transforms of different order. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 421-424. (V. P. Mainra) 34 #567

On an entire function of an entire function defined by a gap Dirichlet series. *Ricerca (Napoli)* (2) 15 (1964), *gennaio-aprile*, 16-22. (Hari Shankar) 31 #5977

On some integral transforms involving Jacobi functions. *Ann. Polon. Math.* 16 (1965), 195-199. (Y. L. Luke) 30 #4124

On certain dual integral equations. *J. Indian Math. Soc. (N.S.)* 29 (1965), 81-86. (W. E. Williams) 32 #6175

Fractional integration and integral equations with polynomial kernels. *J. London Math. Soc.* 40 (1965), 435-440. (A. Erdélyi) 31 #2573

(with Bhonsle, B. R.) A relation between Laplace and Hardy's transforms. *Math. Student* 33 (1965), 103-104. (R. K. Saxena) 33 #1669

On Gegenbauer transforms. *Math. Student* 33 (1965), 129-132. (R. K. Saxena) 32 #6163

A class of integral equations involving Jacobi polynomials as kernel. *Proc. Nat. Acad. Sci. India Sect. A* 35 (1965), 221-226. (A. Erdélyi) 33 #6327

On an entire function of an entire function defined by Dirichlet series. *Pacific J. Math.* 18 (1966), 379-383. (M. E. Noble) 33 #5858

On dual series relations involving Laguerre polynomials. *Pacific J. Math.* 19 (1966), 529-533. (W. D. Collins) 34 #3207

On dual series relations involving series of generalized Bateman *K*-function. *Proc. Amer. Math. Soc.* 17 (1966), 796-802. (J. C. Cooke) 33 #3046

A class of integral equations involving Laguerre polynomials as kernel. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 33-36. (N. Louat) 34 #3241

On integral equations involving Whittaker's function. *Proc. Glasgow Math. Assoc.* 7, 125-127 (1966). (A. Erdélyi) 32 #8097

On some triple series equations involving ultraspherical polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 994-1002. (H. M. Srivastava) 39 #7371

On dual integral equations. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 1042-1044. (H. M. Srivastava) 39 #7372

On triple series equations involving series of Jacobi polynomials. *Proc. Edinburgh Math. Soc.* (2) 15 (1967), 221-231. (W. D. Collins) 35 #4486

On some triple integral equations involving Legendre functions of imaginary argument. *J. of M.A.C.T.* 1 (1968), 54-67. (Author's summary) 39 #3262

On some triple series equations. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 12-21. (Author's summary) 40 #3222

(with Lowengrub, M.) Finite Hilbert transform technique for triple integral equations with trigonometric kernels. *Proc. Roy. Soc. Edinburgh Sect. A* 68 (1968/70), 309-321. (Editors) 42 #793

On three-part mixed boundary value problems in two-dimensional theory of elasticity. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 2, 153-169. (J. Brilla) 42 #8209

Srivastava, M. M.

(with Masood, S.) On the formal solution of dual integral equations of two variables. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 2, 119-126. (J. C. Cooke) 42 #792

Srivastava, M. S.

On the complex Wishart distribution. *Ann. Math. Statist.* 36 (1965), 313-315. (P. S. Dwyer) 30 #2620

Some tests for the intraclass correlation model. *Ann. Math. Statist.* 36 (1965), 1802-1806. (P. S. Dwyer) 32 #6607

On a multivariate slippage problem. I. *Ann. Inst. Statist. Math.* 18 (1966), 299-305. (S. W. Nash) 36 #2268

Some asymptotically efficient sequential procedures for ranking and slippage problems. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 370-380. (S. Blumenthal) 34 #2132

A characterization of the exponential distribution. *Amer. Math. Monthly* 74 (1967), 414-416. 35 #7374

Classification into multivariate normal populations when the population means are linearly restricted. *Ann. Inst. Statist. Math.* 19 (1967), 473-478. (P. R. Krishnaiah) 36 #6066

Comparing distances between multivariate populations: The problem of minimum distance. *Ann. Math. Statist.* 38 (1967), 550-556. (I. Olkin) 34 #8566

On fixed-width confidence bounds for regression parameters and mean vector. *J. Roy. Statist. Soc. Ser. B* 29 (1967), 132-140. (N. Starr) 36 #1039

On the distribution of a multiple correlation matrix: Non-central multivariate beta distributions. *Ann. Math. Statist.* 39 (1968), 227-232. (G. Tintner) 36 #2269

(with Ogilvie, J.) The performance of some sequential procedures for a ranking problem. *Ann. Math. Statist.* 39 (1968), 1040-1047. (P. J. Bickel) 37 #2379

On a sequential analogue of the Behrens-Fisher problem. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 144-148. (H. Teicher) 43 #1334

Srivastava, O. P.

Asymptotic independence of certain statistics connected with the extreme order statistics in a bivariate distribution. *Sankhyā Ser. A* 29 (1967), 175-182. (J. H. Stapleton) 37 #1048

Srivastava, O. S.

(with Mishra, R. S.) Three-dimensional shock waves in a dusty medium. *Tensor (N.S.)* 16 (1965), 133-141. (H. C. Levey) 31 #4306

(with Mishra, R. S.) Stream deflection across a shock wave in a dusty medium. *Tensor (N.S.)* 17 (1966), 20-23. (G. Deb Ray) 33 #2077

Srivastava, P. K.

(with Rai Choudhury, S.) A remark on the compositeness criteria in the Lee model. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 650-657. (D. Lurié) 33 #2215

(with Mehta, M. L.) Correlation functions for eigenvalues of real quaternion matrices. *J. Mathematical Phys.* 7 (1966), 341-344. (Authors' summary) 32 #7105

(with Mehta, M. L.) Classification of irreducible unitary representations of compact simple Lie Groups. II. *J. Mathematical Phys.* 7 (1966), 1833-1835. (Authors' summary) 34 #5982

(with Mehta, M. L.) Irreducible corepresentations of groups having a compact simple Lie group as a subgroup of index 2. *J. Mathematical Phys.* 9 (1968), 1375-1385. (G. R. Allcock) 38 #4108

Srivastava, P. N.

Propagation of small disturbances in a viscoelastic fluid contained between two coaxial cylinders. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 27 (1962), 49-57. (D. J. Benney) 31 #4285

Propagation of small disturbances in a visco-elastic fluid contained in an infinite cylinder due to the slow angular motion of its base. *Indian J. Math.* 6 (1964), 29-38. (O. R. Burggraf) 29 #6771

Srivastava, Pramila

On strong summability of infinite series. *Math. Student* 31 (1963), 187-192 (1964). (Editors) 31 #1495

On absolute Riesz summability of orthogonal series. *Indian J. Math.* 9 (1967), 513-529 (1968). (K. Tandori) 40 #6169

(with Richert, H.-E.) A convexity theorem for strong Riesz summability. *Proc. London Math. Soc.* (3) 18 (1968), 367-384. (S. K. Basu) 37 #6643

(with Hermann, Reinhard) An analogue of M. Riesz's mean value theorem in the theory of absolute summability. *J. London Math. Soc.* (2) 1 (1969), 535-544. (W. Beekmann) 40 #595

Srivastava, Prem P.

(with do Amaral, C. Marcio) Regge trajectories for Coulomb potential modified by inverse square potential. *Nuovo Cimento* (10) 32 (1964), 237-238. (E. Predazzi) 29 #964

Srivastava, R. C.

Some aspects of the stochastic model for the attachment of phages to bacteria. *J. Appl. Probability* 4 (1967), 9-18. (Simeon M. Berman) 34 #8512

Estimation of the parameter in the stochastic model for phage attachment to bacteria. *Ann. Math. Statist.* 39 (1968), 183-192. (J. L. Denny) 36 #6092

(with Srivastava, A. B. L.) On a characterization of Poisson distribution. *J. Appl. Probability* 7 (1970), 497-501. (E. H. Lehman) 41 #7741

Srivastava, R. S. L.

On the maximum term of an integral function defined by Dirichlet series. *Ganita* 13 (1962), 75-86. (M. E. Noble) 29 #2373

(with Juneja, O. P.) On the proximate order of entire functions. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 27 (1962), 29-33. (J. Clunie) 31 #4908

On the maximum term of an entire Dirichlet series. *Publ. Math. Debrecen* 10 (1963), 58-62. (H. Kober) 30 #236

(with Juneja, O. P.) On the zeros of entire functions. *Riv. Mat. Univ. Parma* (2) 4 (1963), 275-279. (A. G. Azpeitia) 32 #4272

A correction and remark on a former paper. *Riv. Mat. Univ. Parma* (2) 6 (1965), 297-299. (S. M. Shah) 36 #1653

(with Singh, Prem) On the λ-type of an entire function of irregular growth. *Arch. Math. (Basel)* 17 (1966), 342-346. (Hari Shankar) 35 #1779

(with Singh, Prem) On the λ-type of entire functions of irregular growth defined by Dirichlet series. *Monatsh. Math.* 70 (1966), 249-255. (M. E. Noble) 34 #1505

(with Juneja, O. P.) Zeros of entire series. *Monatsh. Math.* 70 (1966), 360-365. (V. Ganapathy Iyer) 34 #4499 (with Juneja, O. P.) On proximate type of entire functions. *Compositio Math.* 18, 7-12 (1967). (Hari Shankar) 37 #1611

(with Gupta, J. S.) On the maximum term of an integral function defined by Dirichlet series. *Math. Ann.* 174 (1967), 240-246. (S. M. Shah) 36 #1650

(with Juneja, O. P.) On the maximum term of an entire function. *Progr. Math. (Allahabad)* 2 (1968), *no.* 2, 6-14. (A. Baillette) 42 #3277

Srivastava, Ramesh Chandra

On generalizations of harmonic and Killing tensors. *Ann. Polon. Math.* 21 (1969), 139-153. (T. J. Willmore) 39 #893

On *p*-union curves in a hypersurface. *C. R. Acad. Bulgare Sci.* 23 (1970), 907-909. (H. D. Pande) 43 #3967

Generalised geodesics in a Riemannian space. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 40-46. (R. Roşca) 35 #6097

On generalizations of harmonic and killing vectors. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 200-216. (K. Yano) 35 #6098

On a mapping in a riemannian space. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 217-225. (Y. Mutō) 36 #825

Subspaces of a space with torsion. *Gaṇita* 18 (1967), *no.* 1, 65-74. (M. Kurita) 38 #2694; erratum, 39, p. 1593

Srivastava, Ravindra Kumar

On the coefficients of an integral function represented by Dirichlet series of finite order. *Gaṇita* 13 (1962), 25-35. (M. E. Noble) 29 #2372

On the derivatives of an integral function represented by Dirichlet series. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 28 (1963), 79-90. (H. Kober) 35 #375

On the type of integral functions represented by Dirichlet series. *Riv. Mat. Univ. Parma* (2) 5 (1964), 211-218. (A. G. Azpeitia) 34 #1525

(with Kumar, Vinod) On the order and type of integral functions of several complex variables. *Compositio Math.* 17, 161-166 (1965). (Joji Kajiwara) 33 #4312 (E)

(with Kumar, Vinod) Errata: On the order and type of integral functions of several complex variables. *Compositio Math.* 17, *fasc.* 3, *loose insert* (1966). (Editors) 34 #4541

On the maximum modulus of an integral function represented by Dirichlet series. *Rev. Mat. Hisp.-Amer.* (4) 26 (1966), 88-104. (A. G. Azpeitia) 34 #2885

On the derivatives of integral functions of several complex variables. *J. Math. Tokushima Univ.* 1 (1967), 51-56. (R. P. Gilbert) 39 #4429

(with Kumar, Vinod) On means of integral functions of two or more variables. *Rev. Mat. Hisp.-Amer.* (4) 29 (1969), 59-66. (S. M. Shah) 39 #3022

Srivastava, S. C.

(with Sinha, R. S.) Generalised Gauss-Codazzi equation for a subspace of a Finsler space. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 123-129. (H. Rund) 40 #8005

Srivastava, S. S.

Reliability of complex systems—A review. *J. Math. Sci.* 2 (1967), 111-123. (Editors) 37 #5041

(with Kumar, Santosh; Garg, R. C.; Sen, Prasenjit) Generalized travelling salesman problem through *n* sets of nodes. *CORS J.* 7 (1969), 97-101. (Authors' summary) 39 #5130

(with Musa, S. A.) Infinitesimal transformations for non-linear time varying systems. *Internat. J. Control* (1) 10 (1969), 583-592. (G. Sansone) 40 #5950

(with Garg, R. C.; Singh, Naunihal; Kumar, Santosh) Complex system dependability with preemptive priority repairs. *J. Math. Sci.* 4 (1969), 11-18. (L. A. Aroian) 40 #6709

(with Garg, R. C.; Kumar, Santosh; Prakash, Surya) Stochastic behaviour of a stand-by redundant complex system. *Cahiers Centre Études Recherche Opér.* 12 (1970), 233-243. (R. J. Serfling) 43 #5675

(with Garg, R. C.; Malhotra, N. K.; Kumar, Santosh) Stochastic behaviour of a parallel redundant complex system with three types of components. (German summary) *Computing (Arch. Elektron. Rechnen)* 7 (1971), 83-90. (D. Hochstädter) 44 #6319

Srivastava, Satya Narain

Corrections to my paper entitled "On the means of an entire function and its derivatives". *Bull. Calcutta Math. Soc.* 54 (1962), 105-106. (Editors) 29 #3634

On the maximum term of an integral function. *Publ. Math. Debrecen* 11 (1964), 10-17. (H. Kober) 31 #2407

(with Bose, S. K.) On the means of products of integral functions. *Riv. Mat. Univ. Parma* (2) 5 (1964), 139-150. (S. M. Shah) 33 #7537

On the zeros of integral functions. *Gaṇita* 17 (1966), 51-55. (S. M. Shah) 37 #1603

On the geometric means of integral functions. *Publ. Math. Debrecen* 13 (1966), 73-76. (V. Ganapathy Iyer) 34 #4500

On the mean values of integral functions represented by Dirichlet series. *Compositio Math.* 18, 13-16 (1967). (M. E. Noble) 36 #3987

On the mean values of entire functions and their derivatives defined by Dirichlet series. I. *Rev. Mat. Hisp.-Amer.* (4) 27 (1967), 132-138. (H. Kober) 36 #6623

On the mean values of an integral function of two complex variables. *Ann. Polon. Math.* 20 (1968), 57-60. (R. P. Gilbert) 37 #4283

On the mean values of integral functions and their derivatives represented by Dirichlet series. *Compositio Math.* 19, 334-340 (1968). (Y. Komatu) 39 #7107

(with Agarwal, Arun K.; Kumar, Kuldip) On the geometric means of an entire function represented by Dirichlet series. *Math. Z.* 116 (1970), 359-364. (Hari Shankar) 43 #2216

Srivastava, Siya Ram

Power of an analysis of variance test procedure on the basis of preliminary tests of significance. *J. Indian Statist. Assoc.* 2 (1964), 137-153. (S. Kullback) 30 #2612

(with Gupta, V. P.) Estimation after preliminary testing in ANOVA model I. *Calcutta Statist. Assoc. Bull.* 14 (1965), 151-159. 34 #5205

Statistical inference in a mixed model using a preliminary test of significance. *Vikram—Quart. Res. J. Vikram Univ.* 9 (1965), *no.* 1 & 3, 41-47. (A. Goldman) 43 #5665

Estimation of variance using a preliminary test of significance. (Spanish summary) *Trabajos Estadíst.* 17 (1966), *cuad.* 2-3, 101-108. (M. Atiqullah) 34 #5206

(with Bancroft, T. A.) Inferences concerning a population correlation coefficient from one or possibly two samples subsequent to a preliminary test of significance. *J. Roy. Statist. Soc. Ser. B* 29 (1967), 282-291. (T. V. Narayana) 36 #1016

(with Gupta, V. P.) Inference for a linear hypothesis model using two preliminary tests of significance. *Trabajos Estadíst.* 19 (1968), 75-105. (I. Guttman) 39 #2268

A note on the estimation of a correlation coefficient incorporating a preliminary test of significance. *Trabajos Estadíst.* 20 (1969), 113-115. (M. E. Thompson) 43 #5652

(with Saxena, K. P.) Inference for a linear hypothesis model using two preliminary tests of significance. *Bull. Math. Statist.* 14 (1970), *no.* 1-2, 83-102. 43 #4190

Srivastava, Surendra K.

An estimate of the mean of a finite population using several auxiliary variables. *J. Indian Statist. Assoc.* 3 (1965), 189-194. (C. Hayashi) 33 #6801

Product estimator. *J. Indian Statist. Assoc.* 4 (1966), 29-37. (From the author's introduction and summary) 34 #8601

On ratio and linear regression methods of estimation with several auxiliary variables. *J. Indian Statist. Assoc.* 4 (1966), 66-72. (Author's summary) 34 #8594

A note on Olkin's multivariate ratio estimator. *J. Indian Statist. Assoc.* 4 (1966), 202-208. (I. Olkin) 37 #2374

An estimator using auxiliary information in sample surveys. *Calcutta Statist. Assoc. Bull.* 16 (1967), 121-132. (J. Sedransk) 36 #3488

Srivastava, Tej Narain

(with Krishna Iyer, P. V.) A sampling inspection scheme based on simple Markov chains. *Defence Sci. J.* 15 (1965), 55-60. (Authors' summary) 32 #6637

On CSP-1 and CSP-2 when production rate exceeds inspection rate. *J. Indian Statist. Assoc.* 4 (1966), 58-65. (S. Blumenthal) 35 #3835

On an integral transform. I. *Progr. Math. (Allahabad)* 2 (1968), *no.* 1, 176-180. (From the author's introduction) 42 #2257

Srivastava, Triloki Nath

Generalised Bianchi and Veblen identities in a special Kawaguchi space. *Tensor (N.S.)* 15 (1964), 87-102. (T. Ohkubo) 29 #1607

(with Singh, Y. P.) On Maitland's generalised Bessel function. *Canad. Math. Bull.* 11 (1968), 739-741. (F. W. J. Olver) 40 #654

Some theorems on generalised Meijer transform. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 131-145. (S. K. Bose) 41 #753

On an integral transform. II. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 157-166. (Author's summary) 43 #7872

Srivastava, U. N.

On the existence of the solution of a certain boundary layer equation. *J. Mathematical and Physical Sci.* 3 (1969), 115-120. (H. K. Wilson) 40 #6840

Srivastava, V. K.

(with Roy, A. R.) On the method of mixed estimation with autocorrelated disturbances. *J. Indian Statist. Assoc.* 3 (1965), 107-115. (W. Freiberger) 37 #7046

(with Roy, A. B.) Generalized double *k*-class estimators. *J. Indian Statist. Assoc.* 4 (1966), 38-46. (A. L. Nagar) 35 #2406

(with Roy, A. R.) On the estimation of generalized linear probability model involving discrete random variables. *Ann. Inst. Statist. Math.* 20 (1968), 457-467. (From the authors' introduction) 38 #3975

The efficiency of estimating seemingly unrelated regression equations. *Ann. Inst. Statist. Math.* 22 (1970), 483-493. (From the author's introduction) 44 #1157

Srivastava, V. P.

The absolute Cesàro summability factors of infinite series. *Matematiche (Catania)* 20 (1965), 198-210. (A. Meir) 32 #8000

(with Mohapatra, R. N.; Das, G.) On $|R, \log n, 1|$-summability factors of power series on its circle of convergence. *Math. Z.* 90 (1965), 319-324. (T. Pati) 33 #6204

(with Das, G.; Mohapatra, R. N.) On absolute summability factors of infinite series. *J. Indian Math. Soc. (N.S.)* 31 (1967), 189-200 (1968). (L. Hoischen) 39 #7321

(with Mohapatra, R. N.; Das, G.) On absolute summability factors of infinite series and their application to Fourier series. *Proc. Cambridge Philos. Soc.* 63 (1967), 107-118. (E. Kogbetliantz) 34 #3155

Extension of a theorem of Sunouchi. *Proc. Cambridge Philos. Soc.* 65 (1969), 489-493. (L. Hoischen) 39 #3186

On the absolute Cesàro summability factors of a Fourier series. *Riv. Mat. Univ. Parma* (2) 9 (1968), 211-220. (B. D. Malviya) 41 #4123

Srivastava, Y. N.

(with Nath, Pran) Some remarks concerning coupled ND^{-1} equations. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1192-1200. (D. I. Olive) 33 #2229

(with Kaus, P.; Nath, Pran) Coupled-channel scattering with complex angular momentum. *Phys. Rev.* (2) 138 (1965), B726-B731. (E. Predazzi) 32 #6922

(with Abbe, W. J.; Kaus, P.; Nath, Pran) Modification of a Regge-pole representation. *Phys. Rev.* (2) 140 (1965), B1595-B1598. (H. Cheng) 32 #6903

(with Nath, Pran) Kronecker-delta-type singularities and reggeization. *Phys. Rev.* (2) 142 (1966), 982-983. (A. E. A. Warburton) 33 #2168

Sročko, V. A.

(with Gabasov, R.) The study of singular controls by means of a variation packet. (Russian) *Differencial'nye Uravnenija* 6 (1970), 260-275. (P. Sagirow) 42 #1553

A connection between two necessary conditions for the optimality of singular controls. (Russian) *Differencial'nye Uravnenija* 6 (1970), 387-389. (P. Sagirow) 42 #1554

Śródka, Tadeusz

A recursive formula for the ordinary moments in the Pólya distribution. (Polish. Russian and English summaries) *Prace Mat.* 8 (1963/64), 217-220. (Č. Masaitis) 30 #5347

Fonctions limites et degrés de convergence dans la distribution de Polya. *Bull. Soc. Sci. Lettres Łódź* 15 (1964), *no.* 3, 9 *pp.* (Z. W. Birnbaum) 37 #956

On the distribution of product and ratio of powers of two independent random raviables with the generalized gamma, Maxwell and Weibull distribution. *Prace Mat.* 11 (1967), 77-85. (L. A. Aroian) 36 #3397

Srožiddinov, H. M.

(with Esajan, A. R.) A priori estimation of the nearness of the solutions of the precise and the approximate equation. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 12, 8-11. (S. Kurepa) 37 #4640

(with Esajan, A. R.; Stecenko, V. Ja.) Estimation of errors in approximate solution of linear equations in a space with a cone. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Tehn. i Him. Nauk* 1967, *no.* 1 (23), 3-17. (M. Katětov) 37 #3373

Srubščik, L. S.

On the asymptotic integration of a system of nonlinear equations of plate theory. *Prikl. Mat. Meh.* 28 (1964), 335-349 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 407-424. (A. Sawczuk) 31 #6428

On solvability of nonlinear equations of Reissner for non-shallow symmetrically loaded shells of revolution. *Prikl. Mat. Meh.* 32 (1968), 328-332 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 322-326. (From the author's introduction) 38 #5422

(with Potetjunko, È. N.; Carjuk, L. B.) Application of the stationary phase method in some problems of the theory of waves on the surface of a viscous liquid. *Prikl. Mat. Meh.* 34 (1970), 153-161 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 143-153. (W. P. Graebel) 42 #2731

Srubshchik, L. S. See Srubščik, L. S.

Šrumova, F. V.

The absolute and uniform convergence of a generalized Fourier integral. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 13 (1970), *no.* 1, 11-14. (J. Peetre) 43 #7862

Staal, J. F.

Bibliography of E. W. Beth. *E. W. Beth Memorial Colloquium (Paris, 1964), pp.* 121-137. *D. Reidel, Dordrecht,* 1968. (Editors) 39 #28

(See also Logic, methodology and philosophy of science, 40 #14)

Stacey, G. M.

(with Moiseiwitsch, B. L.) The Tamm variational principle and its generalization to the scattering amplitude. *Proc. Phys. Soc.* 86 (1965), 737-743. (A. Dalgarno) 32 #5246

Stach, Květomil

Die allgemeinen Eigenschaften der Kummerschen Transformationen zweidimensionaler Räume von stetigen Funktionen. (Russian summary) *Spisy Přirod. Fak. Univ. Brno* 1966, 389-410. (R. F. Matlak) 36 #1720

Die vollständigen Kummerschen Transformationen zweidimensionaler Räume von stetigen Funktionen. (Russian summary) *Arch. Math. (Brno)* 3 (1967), 117-138. (R. F. Matlak) 39 #525

Die Kummerschen Transformationen in Räumen mit abgeschlossenen Phasen. Teil A: Allgemeine Eigenschaften. *Arch. Math. (Brno)* 4 (1968), 141-156. (H. W. Guggenheimer) 44 #1856

Stachanov, I. P. See Stahanov, I. P.

Stachel, Hellmuth

Elementare Bestimmung der gefährlichen Fläche beim räumlichen Rückwärtsschnitt. *Elem. Math.* 22 (1967), 34-37. (H. R. Müller) 35 #847

Netzprojektion quasielliptischer Schraubschiebflächen. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 178 (1970), 379-402. (K. Strubecker) 42 #5150

Radlinien als Hüllkurvenpaare. *Math. Nachr.* 45 (1970), 167-182. (O. Bottema) 42 #8380

Hüllbahnen von Trochoiden bei Trochoidenbewegungen. *Math. Nachr.* 46 (1970), 189-208. (V. Medek) 42 #8399

Über Hüllbahnen von Trochoiden bei Trochoidenbewegungen. *Z. Angew. Math. Mech.* 51 (1971), 147-149. (H. Brauner) 44 #1280

Stachel, John J.

Cylindrical gravitational news. *J. Mathematical Phys.* 7 (1966), 1321-1331. (R. K. Sachs) 34 #5484

Covariant formulation of the Cauchy problem in generalized electrodynamics and general relativity. *Acta Phys. Polón.* 35 (1969), 689-709. (Gerald Rosen) 40 #3870

Specifying sources in general relativity. *Phys. Rev.* (2) 180 (1969), 1256-1261. (J. Charles-Renaudie) 40 #8427

(with Havas, Peter) Invariances of approximately relativistic Lagrangians and the center-of-mass theorem. I. *Phys. Rev.* (2) 185 (1969), 1636-1647. (B. K. Datta) 41 #4993

(with Goenner, Hubert) Einstein tensor and 3-parameter groups of isometries with 2-dimensional orbits. *J. Mathematical Phys.* 11 (1970), 3358-3370. (S. Deser) 42 #5595

Stachó, Lajos

Über ein Problem für Kreisscheibenfamilien. *Acta Sci. Math. (Szeged)* 26 (1965), 273-282. (P. Scherk) 33 #604

Stachowiak, Herbert

* Denken und Erkennen im kybernetischen Modell. *Springer-Verlag, Vienna-New York,* 1965. viii + 247 *pp.* (A. Rapoport) 32 #1029

* Denken und Erkennen im kybernetischen Modell. Zweite, verbesserte und ergänzte Auflage. *Springer-Verlag, Vienna-New York,* 1969. viii + 277 *pp.* (Editors) 39 #7960

Stack, S. J.

(with Razavy, M.) On the separation method for the nuclear many-body problem. *Canad. J. Phys.* 43 (1965), 605-618. (T. Sasakawa) 31 #2007

Stäckel, Paul

(See Theorie der Parallellinien von Euklid bis auf Gauss, 41 #25 and Borel, Émile, 41 #1456)

Stackelberg, Olaf P.

On the law of the iterated logarithm for continued fractions. *Duke Math. J.* 33 (1966), 801-819. (F. Schweiger) 36 #6369

(with Philipp, Walter) Zwei Grenzwertsätze für Kettenbrüche. *Math. Ann.* 181 (1969), 152-156. (F. Schweiger) 39 #5503

An upper asymptotic estimate of Brownian path variation. *Proc. Amer. Math. Soc.* 26 (1970), 168-173. (N. C. Jain) 41 #7765

Stacy, E. W.

(with Mihram, G. A.) Parameter estimation for a generalized gamma distribution. *Technometrics* 7 (1965), 349-358. (R. F. Tate) 33 #811

Stadtlander, D. P.

Further properties of the set function *T*. *J. Natur. Sci. and Math.* 7 (1967), 91-94. (J. W. Rogers, Jr.) 38 #681

Thread actions. *Duke Math. J.* 35 (1968), 483-490. (R. J. Koch) 38 #6573

Semigroup actions and dimension. *Aequationes Math.* 3 (1969), 1-14. (T.-S. Wu) 40 #4934

Actions with topologically restricted state spaces. *Duke Math. J.* 37 (1970), 199-206. (A. D. Wallace) 41 #4507

Actions with topologically restricted state spaces. II. *Duke Math. J.* 38 (1971), 7-14. (A. D. Wallace) 42 #7822

Štaerman, I. Ja.

The article of I. I. Rahmaninov "Equilibrium of a flexible non-expanding surface". (Ukrainian) *Istor.-Mat. Zbirnik* 2 (1961), 77-88. (Editors) 32 #7390

Staff, P. J.

The displaced Poisson distribution. *Austral. J. Statist.* 6 (1964), 12-20. (D. E. Barton) 32 #6583

(with Darvey, I. G.) Stochastic approach to first-order chemical reaction kinetics. *J. Chem. Phys.* 44 (1966), 990-997. (P. E. Ney) 32 #6883

The displaced Poisson distribution—region B. *J. Amer. Statist. Assoc.* 62 (1967), 643-654. (From the author's summary) 35 #3784

(with Radcliffe, J.) First-order conservative processes with multiple latent roots. *J. Appl. Probability* 6 (1969), 186-194. (P. E. Ney) 39 #6414

Stafney, James D.

Arens multiplication and convolution. *Pacific J. Math.* 14 (1964), 1423-1447. (M. Rajagopalan) 31 #1321

A permissible restriction on the coefficients in uniform polynomial approximation to $C[0, 1]$. *Duke Math. J.* 34 (1967), 393-396. (J. Szabados) 35 #3329

An unbounded inverse property in the algebra of absolutely convergent Fourier series. *Proc. Amer. Math. Soc.* 18 (1967), 497-498. (Y. Katznelson) 35 #4679

Approximation of W_p-continuity sets by p-Sidon sets. *Michigan Math. J.* 16 (1969), 161-176. (J.-P. Kahane) 40 #632

The spectrum of an operator on an interpolation space. *Trans. Amer. Math. Soc.* 144 (1969), 333-349. (J. Peetre) 40 #6269

(with Radcliffe, J.) Immigration-migration-death processes with multiple latent roots. *Math. Biosci.* 8 (1970), 279-290. 42 #5347

Stagnani, Anna Maria

Sulla propagazione di una discontinuità elettromagnetica in un mezzo non lineare. *Atti Sem. Mat. Fis. Univ. Modena* 13 (1964), 91-97. (N. D. SenGupta) 30 #2812

Stagnaro, Ezio

Sopra certe superficie algebriche con singolarità isolate. *Matematiche (Catania)* 23 (1968), 338-343. (B. d'Orgeval) 40 #1394

Sulla dipendenza p-integrale. *Univ. e Politec. Torino Rend. Sem. Mat.* 29 (1969/70), 203-221. (D. Kirby) 44 #193

Anelli p-fattoriali. *Univ. e Politec. Torino Rend. Sem. Mat.* 29 (1969/70), 223-233. (D. Kirby) 44 #194

Stahanov, I. P.

(with Stupočenko, E. V.) On certain questions of the hydrodynamics of relaxing media. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1963, *no.* 2, 3-20. (J. P. Guiraud) 32 #1991

(with Stepanov, A. S.) Transport equations for a three-component plasma in a magnetic field. *Ž. Tehn. Fiz.* 34 (1964), 399-409 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 315-323. (T. Kahan) 32 #5298

Stahi, A. M.

(with Sibirskiĭ, K. S.) Limiting properties of partially ordered dispersive dynamical systems. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 11, 42-49 (1964). (A. Badrikian) 37 #374

(with Sibirskiĭ, K. S.) On the question of partial orderability of groups. (Russian) *Studies in Algebra and Math. Anal. (Russian), pp.* 73-78. *Izdat. "Karta Moldovenjaske", Kishinev,* 1965. (J. Jakubík) 34 #259

Topological properties of partially ordered dynamical systems. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 1032-1035. (V. Drobot) 35 #1000

The returnability of points and regions in partially ordered dynamical systems. (Russian) *Differencial'nye Uravnenija* 4 (1968), 693-701. (V. Drobot) 37 #3549

Minimal sets and Ljapunov stability in partially ordered dynamical systems. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1608-1615. (V. Drobot) 38 #5199

Uniform approximation of sets and proximality in partially ordered dynamical systems. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1101-1106. (P. Gerl) 39 #7239

Stahl, Arne

Die Nicht-Markoffsche Mastergleichung als stochastische Identität. (English summary) *Z. Physik* 185 (1965), 178-185. (G. Newell) 32 #1783

(with Schlögl, F.; Bausch, R.) Statistische Bewegungsgesetze abgeschlossener Systeme und Entropie-Vermehrung. (English summary) *Z. Physik* 187 (1965), 290-304. (P. T. Landsberg) 33 #3703

Stahl, Gerold

Remarks on the incompleteness proof. *Z. Math. Logik Grundlagen Math.* 7 (1961), 164-170. (K. Ono) 31 #2127

Denotation and indirect mention. *Z. Math. Logik Grundlagen Math.* 14 (1968), 305-307. (J. R. Schoenfield) 38 #2019

Stahl, Henry

* (with Dietrich, Günter) Matrizen und Determinanten und ihre Anwendung in Technik und Ökonomie. Zweite Auflage. *VEB Fachbuchverlag, Leipzig,* 1968. 422 *pp.* (J. Vandergraft) 39 #5588

Stahl, János

Two new methods for solution of hyperbolic programming. (Hungarian. Russian and English summaries) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964/65), 743-754. (P. L. Ivănescu) 34 #5521

An existence theorem for polyhedral games. *Colloq. Applications of Math. to Economics, Budapest,* 1963, *pp.* 343-346. *Akadémiai Kiadó, Budapest,* 1965. (T. M. Cover) 32 #3880

(with Rabár, F.) Eine Methode der Produktionsplanung. (Englis summary) *Unternehmensforschung* 9 (1965), 1-7. (Authors' summary) 32 #3856

(with Nagy, András) The optimal volume of foreign trade and the exchange rate. *Econometrica* 35 (1967), 143-153. (M. J. Beckmann) 41 #5033

An algorithm for the solution of polyhedral games. (Hungarian. English and Russian summaries) *Szigma—Mat.-Közgazdasági Folyóirat* 3 (1970), 279-284. (F. Szidarovszky) 43 #8386

Stahl, Wolfgang

Bemerkung zu einer Arbeit von Hering. *Arch. Math. (Basel)* 20 (1969), 580. (J. B. Roberts) 41 #145

Staĭkos, Vasilios Anast.

Contribution to the study of the asymptotic behavior of solutions of ordinary differential equations. (Greek. English summary) *Bull. Soc. Math. Grèce (N.S.)* 6I (1965), *fasc.* 2, 85-140. (S. H. Gould) 34 #7850

On the asymptotic relations between the solutions of two systems of ordinary differential equations. *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 21-27. (Y. Sibuya) 35 #6921

Remarks on a paper of Ph. Hartman concerning the asymptotic behavior of the solutions of almost-separable differential equations. *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 135-143. (P. Hartman) 35 #5719

(with Legatos, G. G.) On certain families of solutions of second order ordinary differential equations. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 809-817. (C. Olech) 34 #3019

On the asymptotic equivalence of systems of ordinary differential equations. *Boll. Un. Mat. Ital.* (3) 22 (1967), 83-93. (G. Sansone) 35 #4534

The asymptotic behavior of perturbed linear systems of ordinary differential equations. (Greek. English summary) *Bull. Soc. Math. Grèce (N.S.)* 8 (1967), *fasc.* 2, 1-64. (S. H. Gould) 38 #380

A note on the boundedness of solutions of ordinary differential equations. *Boll. Un. Mat. Ital.* (4) 1 (1968), 256-261. (N. P. Bhatia) 37 #1704 (E)

A correction to: "A note on the boundedness of solutions of ordinary differential equations". *Boll. Un. Mat. Ital.* (4) 1 (1968), 730. (Editors) 39 #546

(with Legatos, G. G.) On certain families of solutions of third order ordinary differential equations. *SIAM J. Appl. Math.* 17 (1969), 104-108. (G. Sansone) 39 #5848

(with Petsoulas, A. G.) Some oscillation criteria for second order nonlinear delay-differential equations. *J. Math. Anal. Appl.* 30 (1970), 695-701. (W. M. Whyburn) 41 #2171

Stainer, H. M.

(with Tidman, D. A.) Frequency and wavenumber shifts for nonlinear waves in a "hot" plasma. *Phys. Fluids* 8 (1965), 345-357. (Authors' summary) 32 #3448

Stairs, D. G.

(with Blumenthal, R. B.; Ehn, D. C.; Faissler, W. L.; Joseph, P. M.; Lanzerotti, L. J.; Pipkin, F. M.) Wide-angle electron-pair production. *Phys. Rev.* (2) 144 (1966), 1199-1223. (Authors' conclusions) 33 #2221

Stairs, S. W.

(with Land, A. H.) The extension of the cascade algorithm to large graphs. *Management Sci.* 14 (1967), 29-33. (Authors' summary) 39 #2531

Stakgold, Ivar

* Boundary value problems of mathematical physics. Vol. I. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1967. viii + 340 *pp.* (C. R. Putnam) 34 #5602

Bounds for linear functionals. *Bull. Amer. Math. Soc.* 73 (1967), 180-183. (G. Maltese) 35 #764

* Boundary value problems of mathematical physics. Vol. II. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1968. viii + 408 *pp.* (C. R. Putnam) 39 #4507

On Weinstein's intermediate problems for integral equations with difference kernels. *J. Math. Mech.* 19 (1969/70), 301-307. (W. Stenger) 40 #7890

Stakvilevičus, M. I.

Particle-like solutions with gravitation included. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 3, 86-90. (C. A. Hurst) 29 #3226

On the existence of particle-like solutions of the Einstein equations for a complex scalar field. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 6, 41-47. (W. M. Tulczyjew) 30 #2899

Staley, R. M.

(with Yue, P. C.) On system parameter identifiability. *Information Sci.* 2 (1970), 127-138. (B. P. Zeigler) 42 #7319

Stalford, Harold L.

(with Leitmann, George) On integrals of a class of measurable functions. *J. Franklin Inst.* 290 (1970), 155-159. (S. Foglio) 42 #4695

(with Leitmann, George) Sufficient conditions for optimality in two-person zero-sum differential games with state and strategy constraints. *J. Math. Anal. Appl.* 33 (1971), 650-654. (M. D. Ciletti) 43 #3001

Stalley, Robert D.

On the fundamental metric theorems of additive number theory. *J. Number Theory* 2 (1970), 386-392. (A. R. Freedman) 42 #1789

Stallings, John R.

On infinite processes leading to differentiability in the complement of a point. *Differential and Combinatorial Topology (A Symposium in Honor of Marston Morse), pp.* 245-254. *Princeton Univ. Press, Princeton, N. J.,* 1965. (N. H. Kuiper) 31 #5213

Whitehead torsion of free products. *Ann. of Math.* (2) 82 (1965), 354-363. (P. M. Cohn) 31 #3518

Homology and central series of groups. *J. Algebra* 2 (1965), 170-181. (H. Nagao) 31 #232

A topological proof of Grushko's theorem on free products. *Math. Z.* 90 (1965), 1-8. (D.B.A. Epstein) 32 #5723;errata, 33 p.1601

Centerless groups--an algebraic formulation of Gottlieb's theorem. *Topology* 4 (1965), 129-134. (D. R. Brown) 34 #2666

A remark about the description of free products of groups. *Proc. Cambridge Philos. Soc.* 62 (1966), 129-134. (D. B. A. Epstein) 32 #5771

* Lectures on polyhedral topology. Notes by G. Ananda Swarup. Tata Institute of Fundamental Research Lectures on Mathematics, No. 43. *Tata Institute of Fundamental Research, Bombay,* 1967. iv + 260 *pp.* (B. J. Sanderson) 38 #6605

On torsion-free groups with infinitely many ends. *Ann. of Math.* (2) 88 (1968), 312-334. (L. Neuwirth) 37 #4153

Groups of dimension 1 are locally free. *Bull. Amer. Math. Soc.* 74 (1968), 361-364. (K. W. Gruenberg) 36 #6487

Groups of cohomological dimension one. *Applications of Categorical Algebra (Proc. Sympos. Pure Math., Vol. XVII, New York, 1968), pp.* 124-128. *Amer. Math. Soc., Providence, R. I.,* 1970. (L. Neuwirth) 41 #349

Stallmann, Friedmann W.

Numerical solution of integral equations. *Numer. Math.* 15 (1970), 297-305. (P. Linz) 43 #7096

An existence and uniqueness theorem for boundary value problems of nonlinear ordinary differential equations. *SIAM J. Math. Anal.* 2 (1971), 277-285. (J. W. Bebernes) 44 #7036

Stallo, J. B.

(See Čapek, Milič, 44 #2550)

Stallybrass, M. P.

On a pointwise variational principle for the approximate solution of linear boundary value problems. *J. Math. Mech.* 16 (1967), 1247-1286. (L. E. Payne) 35 #2526

A cruciform crack deformed by an arbitrary internal pressure. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 7 (1969), 1103-1116. (R. C. MacCamy) 40 #8326

A crack perpendicular to an elastic half-plane. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 351-362. (R. C. MacCamy) 41 #6453

A pressurized crack in the form of a cross. *Quart. J. Mech. Appl. Math.* 23 (1970), 35-48. (R. C. MacCamy) 41 #6454

A comment on a paper by A. Chakrabarti. *Internat. J. Engrg. Sci.* 9 (1971), 267. (Editors) 44 #3564

Stalnaker, Robert C.

Probability and conditionals. *Philos. Sci.* 37 (1970), 64-80. (J. E. Fenstad) 44 #2565

Stam, Aart Johannes

Derived stochastic processes. *Compositio Math.* 17, 102-140 (1965). (D. L. Hanson) 31 #6281

On shifting iterated convolutions. I. *Compositio Math.* 17 (1966), 268-280. (H. Tanaka) 34 #6835

A note on eigenvectors of bounded linear operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 69=*Indag. Math.* 28 (1966), 349-357. (K. L. Chung) 34 #3336

On a conjecture by Harris. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 202-206. (I. J. Good) 34 #2074

On shifting iterated convolutions. II. *Compositio Math.* 18, 201-228 (1967). (S. Ikeda) 37 #2290

Laws of large numbers for functions of random walks with positive drift. *Compositio Math.* 19, 299-333 (1968). (C. J. Ridler-Rowe) 39 #4948

Two theorems in *r*-dimensional renewal theory. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 81-86. (C. J. Ridler-Rowe) 38 #3930

Renewal theory in *r* dimensions. I. *Compositio Math.* 21 (1969), 383-399. (H. Kesten) 41 #6327

(with Kuipers, Lauwerens) On a general form of the Weyl criterion in the theory of asymptotic distribution. I, II. *Proc. Japan Acad.* 45 (1969), 530-535; *ibid.* 45 (1969), 536-540. (M. Mendès France) 41 #1657

Renewal theory in *r* dimensions. II. *Compositio Math.* 23 (1971), 1-13. (H. Kesten) 43 #6994

Local central limit theorem for first entrance of a random walk into a half space. *Compositio Math.* 23 (1971), 15-23. (W. L. Steiger) 43 #8131

Stam, V. Ja.

A certain class of linear differential operators of infinite order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 3 (82), 66-71. (P. C. Sikkema) 40 #1672

Linear differential equations of infinite order with non-integral right hand side. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1340-1348. (J. Rausen) 43 #5126

Stamate, Ionel I.

(with Roşcău, H.) A study of some differential equations. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* 13 (1962), 359-364. (L. A. MacColl) 31 #400

Characteristic integral properties for polynomials. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 8 (1963), *no.* 1, 73-78. (Z. Daróczy) 31 #3751

Functional equations of Pexider type. II. (Romanian. Russian and French summaries) *Bul. Sti. Inst. Politehn. Cluj* 7 (1964), 51-62. (I. M. H. Etherington) 33 #2988

Functional equations containing several unknown functions. *Mathematica (Cluj)* 6(29) (1964), 131-137. (J. Aczél) 32 #2765

Functional equations of Pexider type. III. (Romanian. Russian and French summaries) *Bul. Şti. Inst. Politehn. Cluj* 8 (1965), 101-104. (I. M. H. Etherington) 34 #8024

Généralisation de l'équation fonctionnelle de H. P. Thielman. *Mathematica (Cluj)* 7(30) (1965), 383-390. (Z. Daróczy) 34 #6369

(with Ghircoiaşiu, N.) A problem relative to the second formula of the mean. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 9 (1966), 37-40. (O. Em. Gheorghiu) 37 #5561

(with Roşcău, Hortensia) A class of functional equations. (Romanian. English summary) *Bul. Şti. Inst. Politehn. Cluj* 9 (1966), 69-76. (O. Em. Gheorghiu) 37 #634

(with Ghircoiaşiu, N.) A generalization of an equation of D. Pompeiu. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 10 (1967), 19-24. (P. Drăgilă) 37 #1826

(with Roşcău, Hortensia) Matrix generalization of the functional equation of N. I. Lobačevskiĭ with several functions. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 10 (1967), 51-55. (O. Em. Gheorghiu) 37 #1825

(with Ghircoiaşiu, N.) Functional equations which define trigonometric functions. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 10 (1967), 57-60. (O. Em. Gheorghiu) 37 #633

Characteristic integral properties for polynomials. *Mathematica (Cluj)* 9(32) (1967), 383-389. (B. Forte) 38 #4843

(with Gheorghiu, O. E.; Ghircoiaşiu, N. V.) Systems of nonlinear functional equations. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 11 (1968), *no.* 2, 25-28. (Editors) 42 #717

Stamatis, Evangelos S.

(See Diophantine arithmetic. The algebra of the ancient Greeks, 33 #2498)

Reconstruction of the ancient text in the Sicilian Doric dialect of fifteen theorems of Archimedes which are preserved in the Arabic language. (Greek. English summary) *Bull. Soc. Math. Grèce (N.S.)* 6 II (1965), *fasc.* 2, 265-297. (G. J. Toomer) 34 #5609

Archimedes' "On the construction of the side of the regular heptagon inscribed in the circle". (Greek) *Bull. Soc. Math. Grèce (N.S.)* 9 (1968), *fasc.* 2, 9-24. (G. J. Toomer) 40 #2495

(See also Archimedes' complete works (original text, translation, annotations). Vol. 1, Part 1; Greek and Latin testimonies, 44 #6424)

Eucleideia. *Math. Balkanica* 1 (1971), 239-242. (H. Wußing) 44 #6425

Stamfort, Otto

Über die Bedeutung einiger Jenaer Mathematiker für die Entwicklung der Mathematik. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 18 (1969), *Heft* 2, 237-242. (P. Bockstaele) 42 #7464

Stamgaziev, K. M.

(with Amandosov, A. A.; Sekeev, K.) On the question of stability of elastic bodies. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 11-17. *Izdat. "Nauka" Kazah. SSR. Alma-Ata,* 1969. (I. Aganović) 39 #7843

Stamm, Emil

Über die Homotopiegruppen gewisser Faserungen. *Math. Z.* 86 (1964), 215-254. (P. J. Hilton) 30 #1514

(with Greub, W.) On the multiplication of tensor fields. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 1-2, 65-70. (H. W. Guggenheimer) 35 #7239

Simplicial and homotopical cohomology of polyhedra. *Canad. J. Math.* 18 (1966), 413-423. (R. Brown) 32 #8337

(with Greub, W.) On the multiplication of tensor fields. *Proc. Amer. Math. Soc.* 17 (1966), 1112-1119. (M. Kawaguchi) 34 #729

If two cows walk on homotopic paths, they have to pass a common gate. *Amer. Math. Monthly* 75 (1968), 170-171. (H. Noguchi) 37 #2198

Stammbach, Urs

Anwendungen der Homologietheorie der Gruppen auf Zentralreihen und auf Invarianten von Präsentierungen. *Math. Z.* 94 (1966), 157-177. (T. R. Brahana) 34 #1377

(with Knus, M. A.) Anwendungen der Homologietheorie der Liealgebren auf Zentralreihen und auf Präsentierungen. *Comment. Math. Helv.* 42 (1967), 297-306. (T. R. Brahana) 37 #278

(with Eckmann, Beno) Homologie et différentielles. Suites exactes. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A11-A13. (C. R. Curjel) 38 #215a

(with Eckmann, Beno) Homologie et différentielles. Basses dimensions: Cas spéciaux. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A46-A48. (C. R. Curjel) 38 #215b

Ein neuer Beweis eines Satzes von Magnus. *Proc. Cambridge Philos. Soc.* 63 (1967), 929-930. (K. D. Günther) 36 #254

Über freie Untergruppen gegebener Gruppen. *Comment. Math. Helv.* 43 (1968), 132-136. (A. Babakhanian) 38 #224

Homological methods in group varieties. *Comment. Math. Helv.* 45 (1970), 287-298. (Hanna Neumann) 43 #324

(with Eckmann, Beno) On exact sequences in the homology of groups and algebras. *Illinois J. Math.* 14 (1970), 205-215. (K. W. Gruenberg) 42 #4615

On the weak homological dimension of the group algebra of solvable groups. *J. London Math. Soc.* (2) 2 (1970), 567-570. (K. W. Gruenberg) 41 #8526

Stammler, Gerhard

* Der Zahlbegriff seit Gauss. Eine erkenntnistheoretische Untersuchung. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1965. xiii + 192 *pp.* (Editors) 34 #4091

Stammler, Ludwig

Elementare Beweise zweier Sätze über Matrizenringe. *Publ. Math. Debrecen* 12 (1965), 33-38. (J. McLaughlin) 32 #7595

Über die Mächtigkeit gewisser Vereinigungsmengen. *Publ. Math. Debrecen* 16 (1969), 325-342. (L. Gillman) 43 #7339

Stampacchia, Guido

I problemi di transmissione per le equazioni di tipo ellittico. *Confer. Sem. Mat. Univ. Bari No.* 58 (1960), 12 *pp.* (J. L. Lions) 31 #3702

Second order elliptic equations and boundary value problems. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 405-413. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #473

Il principio di minimo nel calcolo delle variazioni. *Atti Convegno Lagrangiano (Torino,* 1963*)* [*Atti Accad. Sci. Torino* 98 *(*1963/64*), suppl.*], *pp.* 152-171. *Accad. Sci., Torino,* 1964. (H. F. Weinberger) 29 #6158

Formes bilinéaires coercitives sur les ensembles convexes. *C. R. Acad. Sci. Paris* 258 (1964), 4413-4416. (T. R. Jenkins) 29 #3864

$\mathscr{L}^{(p,\lambda)}$-spaces and interpolation. *Comm. Pure Appl. Math.* 17 (1964), 293-306. (H. F. Weinberger) 31 #2608

Le problème de Dirichlet pour les équations elliptiques du second ordre à coefficients discontinus. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 1, 189-258. (E. Magenes) 33 #404

The spaces $\mathscr{L}^{(p,\lambda)}$, $N^{(p,\lambda)}$ and interpolation. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 443-462. (P. Grisvard) 33 #7840

(with De Giorgi, Ennio) Sulle singolarità eliminabili delle ipersuperficie minimali. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 352-357. (L. Cesari) 32 #4612

(with Campanato, Sergio) Sulle maggiorazioni in L^p nella teoria delle equazioni ellittiche. (English summary) *Boll. Un. Mat. Ital.* (3) 20 (1965), 393-399. (C. B. Morrey, Jr.) 33 #396

(with Lions, Jacques-Louis) Inéquations variationnelles non coercievs. *C. R. Acad. Sci. Paris* 261 (1965), 25-27. (T. R. Jenkins) 31 #6140

(with De Giorgi, Ennio) Sulle singolarità eliminabili delle ipersuperficie minimali. *Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi,* 1965*), pp.* 55-58. *Edizioni Cremonese, Rome,* 1966. (U. D'Ambrosio) 34 #3454

(with Murthy, M. K. Venkatesha) Equazioni ellittiche che degenerano. *Atti Del Convegno su le Equazioni alle Derivate Parziali (Nervi,* 1965*), pp.* 90-96. *Edizioni Cremonese, Rome,* 1966. (C. B. Morrey, Jr.) 34 #4676

* Équations elliptiques du second ordre à coefficients discontinus. Séminaire de Mathématiques Supérieures, No. 16 (Été, 1965). *Les Presses de l'Université de Montréal, Montreal, Que.,* 1966. 326 *pp.* (M. Schechter) 40 #4603

(with Hartman, Philip) On some non-linear elliptic differential-functional equations. *Acta Math.* 115 (1966), 271-310. (H. B. Jenkins) 34 #6355

The $\mathscr{L}^{p,\lambda}$ spaces and applications to the theory of partial differential equations. *Diff. Equations and their Applications, Equadiff II (Proc. Conf., Bratislava,* 1966*), pp.* 129-141. *Slov. Ped. Nakladatel., Bratislava,* 1967. (C. Clark) 41 #2378

(with Lions, J. L.) Variational inequalities. *Comm. Pure Appl. Math.* 20 (1967), 493-519. (T. R. Jenkins) 35 #7178

(with Murthy, M. K. V.) Boundary value problems for some degenerate-elliptic operators. (Italian summary) *Ann. Mat. Pura Appl.* (4) 80 (1968), 1-122. (W. J. Sweeney) 40 #3069

(with Brezis, Haïm R.) Sur la régularité de la solution d'inéquations elliptiques. *Bull. Soc. Math. France* 96 (1968), 153-180. (P. Hartman) 39 #659

(with Lewy, Hans) On the regularity of the solution of a variational inequality. *Comm. Pure Appl. Math.* 22 (1969), 153-188. (W. T. Reid) 40 #816

On the regularity of solutions of variational inequalities. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969*), pp.* 285-289. *Univ. of Tokyo Press, Tokyo,* 1970. (J. Horváth) 42 #2326

Regularity of solutions of some variational inequalities. *Nonlinear Functional Analysis (Proc. Sympos. Pure Math., Vol. XVIII, Part* 1*, Chicago, Ill.,* 1968*), pp.* 271-281. *Amer. Math. Soc., Providence, R. I.,* 1970. (P. Hartman) 43 #2581

(with Lewy, Hans) On the smoothness of superharmonics which solve a minimum problem. *J. Analyse Math.* 23 (1970), 227-236. (Ü. Kuran) 42 #6266

Stampfli, Joseph G.

(with McCarthy, C. A.) On one-parameter groups and semigroups of operators in Hilbert space. *Acta Sci. Math. (Szeged)* 25 (1964), 6-11. (G. Maltese) 30 #1402

Sums of projections. *Duke Math. J.* 31 (1964), 455-461. (E. R. Lorch) 29 #2660

Perturbations of the shift. *J. London Math. Soc.* 40 (1965), 345-347. (L. de Branges) 30 #4155

Hyponormal operators and spectral density. *Trans. Amer. Math. Soc.* 117 (1965), 469-476. (A. E. Taylor) 30 #3375 (E)

Errata: Hyponormal operators and spectral density. *Trans. Amer. Math. Soc.* 115 (1965), 550. (Editors) 33 #4686

Normality and the numerical range of an operator. *Bull. Amer. Math. Soc.* 72 (1966), 1021-1022. (C. Pearcy) 35 #3470

Analytic extensions and spectral localization. *J. Math. Mech.* 16 (1966), 287-296. (J. T. Schwartz) 33 #4687

Extreme points of the numerical range of a hyponormal operator. *Michigan Math. J.* 13 (1966), 87-89. (Chandler Davis) 32 #4551

Which weighted shifts are subnormal? *Pacific J. Math.* 17 (1966), 367-379. (S. R. Foguel) 33 #1740

(with Berger, C. A.) Norm relations and skew dilations. *Acta Sci. Math. (Szeged)* 28 (1967), 191-195. (C. Pearcy) 37 #4661

(with Berger, C. A.) Mapping theorems for the numerical range. *Amer. J. Math.* 89 (1967), 1047-1055. (K. Gustafson) 36 #5744

Minimal range theorems for operators with thin spectra. *Pacific J. Math.* 23 (1967), 601-612. (Morris Schreiber) 37 #4655

An extreme point theorem for inverses in a Banach algebra with identity. *Proc. Cambridge Philos. Soc.* 63 (1967), 993-994. (M. Rosenfeld) 35 #7129

(with Williams, J. P.) Growth conditions and the numerical range in a Banach algebra. *Tôhoku Math. J.* (2) 20 (1968), 417-424. (S. K. Berberian) 39 #4674

A local spectral theory for operators. II. *Bull. Amer. Math. Soc.* 75 (1969), 803-806. (S. R. Caradus) 39 #6108

Adjoint abelian operators on Banach space. *Canad. J. Math.* 21 (1969), 505-512. (K. K. Oberai) 39 #807

A local spectral theory for operators. *J. Functional Analysis* 4 (1969), 1-10. (S. R. Caradus) 39 #4698

On hyponormal and Toeplitz operators. *Math. Ann.* 183 (1969), 328-336. (R. G. Douglas) 40 #4798

A spectral theory for duality systems of operators on a Banach space. *Canad. J. Math.* 22 (1970), 994-996. (K. K. Oberai) 42 #3602

The norm of a derivation. *Pacific J. Math.* 33 (1970), 737-747. (J. D. Gray) 42 #861

Stanaitis, O. E.

Integral tests for infinite series. *Amer. Math. Monthly* 78 (1971), 164-170. (B. K. Lahiri) 43 #764

Stănăşilă, Octavian

(with Radu, Alexandru) The α morphism for the modules with generalized differentiation. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 69-79. (A. H. Clark) 32 #5713

(with Radu, Alexandru) Künneth sequences for generalized complexes. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 105-109. (V. Poenaru) 34 #7616

Certain observations on topologizing modules. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 681-686. (A. Rosenberg) 35 #4286

(with Bănică, C.) Some remarks on the finite morphisms. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1425-1428. (R. Fritsch) 37 #3980

(with Bănică, C.) Spectrum of a lattice. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 137-145. (B. M. Schein (Šaĭn)) 39 #3439

(with Bănică, C.) The analytic algebra associated to a quasi-analytic local algebra. *Arch. Math. (Basel)* 20 (1969), 612-615. (H. Yanagihara) 40 #7251

(with Bănică, Costantin) Sur les morphismes dans un espace de Stein. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 650-652. (K. Peters) 43 #566

(with Bănică, Constantin) Problème de Poincaré pour un espace de Stein. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 25-26. (S. Hitotumatu) 42 #544

(with Bănică, Constantin) A result on section algebras over complex spaces. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 233-235 (1970). (S. Hitotumatu) 41 #8710; erratum, 42, p. 1825 (with Bănică, C.) A structure theorem for the analytic coherent sheaves. *Boll. Un. Mat. Ital.* (4) 2 (1969), 615-621. (W. Thimm) 41 #3811

(with Bănică Constantin) Sur les ouverts de Stein dans un espace complexe. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1024-A1027. (W. Barth) 39# 4438

(with Bănică, Constantin) Sur la profondeur d'un faisceau analytique cohérent sur un espace de Stein. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A636-A639. (A. Morimoto) 40 #7479

(with Bănică, C.; Duma, A.) Properties of Stein spaces. Consequences of the theorems A and B. (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 877-907. (Authors' summary) 42 #4771

(with Bănică, Constantin) Sur les germes de faisceaux analytiques cohérents définis autour de la frontière d'un espace de Stein. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A239-A241. (A. Morimoto) 41 #511

(with Bănică, Constantin) Sur la cohomologie des faisceaux analytiques cohérents à support dans un compact holomorphe-convexe. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1174-A1177. (A. Morimoto) 41 #3812

(with Bănică, C.; Duma, A.) Quasi-analytic algebras. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 7-16. (M. Nagata) 42 #259

(with Bănică, C.) Quelques conditions pour du'un espace complexe soit un espace de Stein. *Espaces Analytiques (Seminaire, Bucharest, 1969), pp.* 159-164. *Editura Acad. R.S.R., Bucharest,* 1971. (W. Barth) 43 #567

(with Bănică, C.) Des caractérisations topologiques de la profondeur d'un faisceau analytique cohérent. *Espaces Analytiques (Seminaire, Bucharest,* 1969*), pp.* 165-171. *Editura Acad. R.S.R., Bucharest,* 1971. (A. Morimoto) 43 #3495

Stancil, R. T.

A new approach to steepest-ascent trajectory optimization. *AIAA J.* 2 (1964), 1365-1370. (L. D. Berkovitz) 29 #3302

Stanciu, L.

(with Neumann, M.; Bica, M.) On the Appendix. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Ped. Timişoara Mat.-Fiz.* 1961, 109-127 (1962). (Authors' summary) 31 #650

(with Bica, M.; Neumann, M.) On hyperbolic area. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 9-25. (D. Mazkewitsch) 30 #4182; erratum, 39, p. 1592

(with Bica, M.; Neumann, M.) The differential geometry of J. Bolyai. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 8 (1963), *no.* 1, 7-24. (D. J. Struik) 31 #2677

(with Bica, M.; Neumann, M.) On a theorem of Hjelmslev. (Romanian. German and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 17-24. (H. S. M. Coxeter) 32 #387

(with Bica, M.; Neumann, M.) Area of traingles in hyperbolic and elliptic geometry. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 35-39. (From the authors' summary) 34 #6612

(with Bica, M.; Neumann, M.) The representation of hyperbolic geometry on a one-sheeted hyperboloid, and on the calculus of ends. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 4 (1966), 13-22. (H. S. M. Coxeter) 36 #7011

(with Neumann, M.) On transformations in the hyperbolic plane. (Romanian. Russian and German summaries). *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 5 (1967), 147-162. (L. A. Santaló) 38 #1589

(with Neumann, M.) Über einige Eigenschaften aus der ebenen hyperbolischen Geometrie. (Romanian summary) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz.* 6 (1968), 229-245. (F. Bachmann) 41 #7520

(with Neumann, M.) Über einige Formeln die in hyperbolischen Vielecken gelten. (Romanian summary) *An. Univ. Timişoara Ser. Şti. Mat.* 7 (1969), 107-118. (W. Szmielew) 42 #945

(with Neumann, M.) Über einige Beziehungen der absoluten Geometrie. (Romanian summary) *An. Univ. Timişoara Ser. Şti. Mat.* 8 (1970), 73-80. (L. Gyarmathi) 44 #904

Stanciu, P.

On the Gauss-Codazzi equations for hypersurfaces. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 297-301. (P. Drăgilă) 30 #5249

(with Täuber, I.) Jonquières transformations which generalize inversion. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 9(23) (1964), *volum special,* 9-14. (P. Du Val) 35 #6676

(with Täuber, I.) On a family of birational transformations. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 281-285. (H. W. Guggenheimer) 34 #6621

(with Boja, N.) A generalization of linear transformations. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 4 (1966), 299-306. (H. S. M. Coxeter) 36 #4431

(with Boja, N.) Über die Gruppe der bilinearen Transformationen in der Ebene $(Z)_{\langle u \rangle}$. (Romanian summary) *An. Univ. Timişoara Ser. Şti. Mat.* 7 (1969), 43-54. (Kenneth O. Leland) 42 #526

Stanciu, Toma N.

Cardinal function of Möbius. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 583-584. (Author's summary) 40 #4196

Stănciulescu, F.

(with Susea, A.) Sur l'existence et l'unicité de la solution d'une équation hyperbolique de l'électrodynamique des milieux non-linéaires. *Bul. Inst. Politehn. Bucureşti* 28 (1966), *no.* 3, 21-27. (P. L. E. Uslenghi) 34 #8731

Stănciulescu, Florin S.

Einige Bemerkungen zur Sequentiallogik. *Z. Math. Logik Grundlagen Math.* 11 (1965), 57-60. (V. Vučković) 30 #3846

(with Oprescu, Mihai Francisc Anton) Probabilisation de l'algèbre séquentielle et simulation mathématique des automates séquentiels aléatoires. Colloque sur les Techniques de Calcul et les Calculateurs (Bucarest, 1967). *Bull. Math. Soc. Sci. Math. R. S. Roumaine (N.S.)* 12(60) (1968), *no.* 1, 123-132. (M. Yoeli) 41 #5115

Stancl, D. L.

Multiplication in Grothendieck rings of integral group rings. *Bull. Amer. Math. Soc.* 73 (1967), 92-94. (J. Guérindon) 36 #1556

Multiplication in Grothendieck rings of integral group rings. *J. Algebra* 7 (1967), 77-90. (A. Heller) 36 #6476

Stancu, Dumitru D.

Generalizations of an inequality of G. G. Lorentz. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I (N.S.)* 9 (1963), 49-58. (B. Zebulon) 32 #2803

Evaluation of the remainder term in approximation formulas by Bernstein polynomials. *Math. Comp.* 17 (1963), 270-278. (D. S. Greenstein) 31 #3772

The remainder of certain linear approximation formulas in two variables. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 1 (1964), 137-163. (E. Frank) 31 #1503

On the moments of some discrete random variables. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 9 (1964), *no.* 2, 35-48. (O. Onicescu) 31 #782

(with Stroud, A. H.) Quadrature formulas with multiple Gaussian nodes. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 129-143. (P. C. Hammer) 31 #4177

On Hermite's osculatory interpolation formula and on some generalizations of it. *Mathematica (Cluj)* 8(31) (1966), 373-391. (J. H. Curtiss) 35 #2030

On the monotonicity of the sequence formed by the first order derivatives of the Bernstein polynomials. *Math. Z.* 98 (1967), 46-51. (A. E. Danese) 35 #3018

A method for computing the moments of the multinomial and multiple Poisson distributions. (Romanian and Russian summary) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 12 (1967), *no.* 1, 49-54. (Bernard Harris) 35 #7375

On the Markov probability distribution. *Bull. Math. Soc. Sci. Math. R. S. Roumaine (N.S.)* 12(60) (1968), *no.* 4, 203-208 (1969). (S. M. Samuels) 40 #8107

On a new positive linear polynomial operator. *Proc. Japan Acad.* 44 (1968), 221-224. (F. Rosati) 38 #461

Approximation of functions by a new class of linear polynomial operators. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1173-1194. (B. Wood) 38 #6278

On the moments of negative order of the positive Bernoulli and Poisson variables. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 13 (1968), *no.* 1, 27-31. (I. R. Savage) 37 #2352

Use of probabilistic methods in the theory of uniform approximation of continuous functions. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 673-691. (B. Wood) 40 #606

On a generalization of the Bernstein polynomials. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math-Phys.* 14 (1969), *no.* 2, 31-45. (I. Kolumbán) 43 #775

Probabilistic methods in the theory of approximation of functions of several variables by linear positive operators. *Approximation Theory (Proc. Sympos., Lancaster,* 1969*), pp.* 329-342. *Academic Press, London,* 1970. (B. Wood) 42 #736

Recurrence relations for the central moments of certain discrete probability laws. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Mech.* 15 (1970), *no.* 1, 55-62. (P. Holgate) 41 #9368

Approximation properties of a class of linear positive operators. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Mech.* 15 (1970), *fasc.* 2, 33-38. (B. Wood) 43 #6637

Stancu, Felicia

On the order of approximation of differentiable functions by Ch. de la Vallée Poussin's operator. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 4 (1966), 307-312. (E. Riekstiņš) 36 #4238

On some formulas of interpolation and of numerical integration for two variables. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1467-1471. (Author's summary) 40 #3722

On the remainder in the approximation formulas by Mirakyan operators of one and two variables. (Romanian. English summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 14 (1968), 415-422. (A. Lupaş) 40 #6134

Stancu-Minasian, Ion M.

Elements of linear programming. (Romanian) *Gaz. Mat. Ser. A* 74 (1969), 299-319. 40 #2346

The utilization of the graph theory in solving the assignment problem. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res.* 1970, *no.* 2, 69-84. (P. L. Hammer) 42 #8882 (with Boldur, Gheorghe) Méthode de résolution de certains problèmes de programmation linéaire multidimensionnelle. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 313-326. (A. C. Williams) 44 #5097

Stańczak, Romuald

A non-linear boundary value problem of the theory of elasticity of an anisotropic medium. *Demonstratio Math.* 2 (1970), *no.* 2, 1-13. (R. C. MacCamy) 43 #6589
}

Staněk, Svatoslav

A certain generalization of the Picard-Lindelöf method of successive approximations of the solution of the differential equation $y' = f(x,y)$. (Czech. German summary) *Časopis Pěst. Mat.* 94 (1969), 1-14, 106. (J. Kučera) 39 #6520

Angenäherte Lösung eines Systems von Integro-Differentialgleichungen mittels der Methode von S. A. Tschaplygin. (Czech summary) *Časopis Pěst. Mat.* 95 (1970), 256-268, 326. (I. Fenyő) 42 #8216

Stanfel, Larry E.

A comment on optimal tree structures. *Comm. ACM* 12 (1969), 582. (D. G. Corneil) 44 #1514

On the structure of anagrammatic encodings. *Information and Control* 14 (1969), 1-8. (Author's summary) 39 #2519

Tree structures for optimal searching. *J. Assoc. Comput. Mach.* 17 (1970), 508-517. (S. L. Hakimi) 44 #5168

Stanford, David P.

Boundedness and dimension for weighted average functions. *Proc. Amer. Math. Soc.* 24 (1970), 82-84. (A. Dinghas) 40 #5885

Stange, Kurt

Die Berechnung wirtschaftlicher Pläne für messende Prüfung. *Metrika* 8 (1964), 48-82. (L. A. Aroian) 32 #3241

Über die zulässigen Abweichungen von der wirtschaftlichsten Probengrösse optimaler Prüfpläne. (English and French summaries) *Bull. Inst. Internat. Statist.* 41 (1965), 961-969. (S. Moriguti) 36 #3480

* (with Graf, Ulrich; Henning, Hans-Joachim) Formeln und Tabellen der mathematischen Statistik. Zweite völlig neu bearbeitete Auflage von Kurt Stange und Hans-Joachim Henning. *Springer-Verlag, Berlin-New York,* 1966. xv + 362 *pp.* (H. L. Harter) 34 #5182

Ein Näherungsverfahren zur Berechnung optimaler Pläne für messende Prüfung bei bekannten Kosten und bekannter Verteilung der Schlechtanteile in den vorgelegten Liefermengen. *Metrika* 10 (1966), 92-136. (W. Uhlmann) 34 #6967

Optimale Folgepläne bei bekannten Kosten (jedoch unbekannter Verteilung der Schlechtanteile in den vorgelegten Liefermengen)—Min-Max-Lösung. (English summary) *Unternehmensforschung* 10 (1966), 129-151. (H. Künzi) 35 #3836

Die wirtschaftlichste Verteilung des Prüfaufwands bei einem Modell mit Zufallskomponenten für zweifache Zerlegung. *Metrika* 12 (1967), 48-67. (G. Elfving) 36 #1045

Pläne für messende Prüfung bei bekannter Varianz der Fertigung und einem nach oben und unten abgegrenzten Toleranzbereich für die Merkmalwerte. *Metrika* 12 (1967/68), 213-233. (H. L. Harter) 37 #4932

Die wirtschaftlichste Verteilung des Prüfaufwands auf die verschiedenen Stufen eines Modells mit mehreren Zufallskomponenten. *Studies in Mathematical Statistics: Theory and Applications, pp.* 169-182. *Akad. Kiadó, Budapest,* 1968. (G. Elfving) 37 #3707

Stanghellini, A.

(with Amati, D.; Foldy, L. L.; van Hove, L.) Dominance of exchange amplitudes in elastic scattering. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 1685-1695. (B. W. Lee) 31 #5477

Stanilov, Groz'o

Congruences of straight lines in biaxial geometry. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 57 (1962/63), 317-334 (1964). 32 #6294

On the bi-axial theory of a congruence of lines. (Russian) *Comment. Math. Univ. Carolinae* 4 (1963), 117-120. (A. Goetz) 29 #6424

On the theory of a vector field. (Bulgarian. Russian and German summaries) *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 8 (1964), 5-11. (T. P. Andelić) 32 #6334

Line complexes in bi-axial geometry. (Bulgarian. Russian and German summaries) *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 8 (1964), 23-61. (B. Cenkl) 33 #4812

Classification of complexes in a biaxial space. (Russian) *C. R. Acad. Bulgare Sci.* 17 (1964), 221-222. (A. Švec) 29 #3973

Geometrische Deutungen der differentialgeometrischen Invarianten eines Geradenkomplexes des euklidischen Raumes. *C. R. Acad. Bulgare Sci.* 17 (1964), 331-334. (A. Urban) 29 #6425

Ruled surfaces and congruences belonging to a complex of lines in a bi-axial space. (Russian) *C. R. Acad. Bulgare Sci.* 17 (1964), 785-788. (A. Goetz) 30 #4208

The geodesic normal to a surface in P_3. (Russian) *Comment. Math. Univ. Carolinae* 5 (1964), 33-36. (A. Goetz) 30 #4209

Minimal lines in a bi-axial geometry. (Bulgarian) *Fiz.-Mat. Spis. Bŭlgar. Akad. Nauk.* 7(40) (1964), 51-53. (B. S. Popov) 29 #5179

The biaxial deformation of congruences and complexes of lines. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 58 (1963/64), 95-106 (1965). (M. Pinl) 33 #4820

Some spaces related to the biaxial spaces. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 60 (1965/66), 21-32 (1967). (M. C. Chaki) 37 #2112

(with Ivanov, Iv. B.) Geometric interpretation of certain differential forms and invariants in the biaxial theory of surfaces. (Russian) *C. R. Acad. Bulgare Sci.* 18 (1965), 601-602. (E. M. Bruins) 33 #1799

The bi-axial theory of a congruence of lines. (Russian. German summary) *Czechoslovak Math. J.* 15(90) (1965), 64-73. (M. Decuyper) 30 #5235

On the theory of ruled manifolds of a biaxial space. (Russian) *Mat. Vesnik* 2(17) (1965), 209-211. (M. Kucharzewski) 34 #5008

A family of rectilinear complexes. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 2, 120-123. (M. Kucharzewski) 33 #650

On the theory of ruled varieties in a space with projective structure. (Russian. German summary) *Annuaire Univ. Sofia Fac. Math.* 61 (1966/67), 41-46 (1968). (K. Svoboda) 39 #3409

Surfaces and congruences in a biaxial space. (Bulgarian. Russian and German summaries) *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966), 115-132. 34 #8294

Differential invariants of plane curves. (Bulgarian) *Fiz.-Mat. Spis. B"lgar. Akad. Nauk.* 9(42) (1966), 279-286. 35 #889

The mapping of a biaxial structure of a complex onto a space of constant curvature. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 107-111. (K. Svoboda) 36 #2076

Integral invariants of sets of pairs of straight lines in a biaxial space. (Russian. Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 89-94. (A. Švec) 36 #7098

Geometry of a space with fundamental semi-parametric group. (Russian) *C. R. Acad. Bulgare Sci.* 20 (1967), 261-264. (M. Decuyper) 35 #6059

Eine Verallgemeinerung der Schnittkrümmung. *Arch. Math. (Basel)* 21 (1970), 424-428. (F. Brickell) 43 #1080

Dualitätsprinzip in der Differentialgeometrie von Räumen mit projektiver Struktur. *C. R. Acad. Bulgare Sci.* 23 (1970), 473-475. (P. Drăgilă) 42 #5171

Zur Integralgeometrie im euklidischen Raum E_3. *Math. Nachr.* 43 (1970), 181-183. (G. D. Chakerian) 41 #4466

Stanisław, Lipiński Jan. See Lipiński, Jan Stanisław.

Stanisz, Tadeusz

Functions with separated variables. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 85-96. (M. Skalsky) 40 #284

Staniszewska, J.

Sur la classe de Baire des dérivées de Dini. *Fund. Math.* 47 (1959), 215-217. (S. Izumi) 29 #197

Sur l'ensemble des points de divergence des séries entières continues sur la circonférence du cercle de convergence. *Fund. Math.* 54 (1964), 305-324. (F. Herzog) 29 #5992

Staniukovich, K. P. See Stanjukovič, K. P.

Stanjukovič, K. P.

Basic equations of relativistic magnetogasdynamics. (Russian) *Problems of Magnetohydrodynamics, II, pp.* 5-32, *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. (D. ter Haar) 31 #6499

Generalization of models of the Friedmann universe. *Dokl. Akad. Nauk SSSR* 151 (1963), 546-549 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 697-700. 29 #4597

Variational principle in general relativity theory. *Dokl. Akad. Nauk SSSR* 153 (1963), 562-565 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 1064-1066. (W. Rindler) 31 #6650

Lagrangian of a continuous medium in the Riemannian space. *Dokl. Akad. Nauk SSSR* 154 (1964), 313-316 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 63-65. (R. S. Mishra) 34 #1068

A new variational formalism in the general theory of relativity. *Dokl. Akad. Nauk SSSR* 158 (1964), 78-81 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 773-776. 32 #7193

(with Iosif'jan, A. G.; Sokolik, G. A.) Analysis of quasi-Maxwellian equations governing compensating fields. *Dokl. Akad. Nauk SSSR* 159 (1964), 1261-1263 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 1108-1109. (E. J. Post) 32 #8977

* Гравитационное поле и Элементарные частицы. (Russian) [Gravitational field and elementary particles] *Izdat. "Nauka", Moscow,* 1965. 311 *pp.* (A. Staruszkiewicz) 32 #8995

Electrodynamics in Riemannian space. *Dokl. Akad. Nauk SSSR* 164 (1965), 789-792 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 937-939. 33 #2072

(with Gurovič, V. C.) On the application of general variational principles in the relativistic mechanics of an ideal fluid. *Prikl. Mat. Meh.* 29 (1965), 18-25 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 18-25 (1966). (N. Coburn) 33 #2087

(with Breznev, V. S.) Question of the interaction of spinor and gravitational fields. *Dokl. Akad. Nauk SSSR* 168 (1966), 1027-1029 *(Russian); translated as Soviet Physics Dokl.* 11 (1966), 488-490. (A. Raychaudhuri) 34 #5492 (with Golicyn, G. S.; Džuzumkulov, T.) A general solution of the equations of magnetohydrodynamics for one-dimensional non-stationary and plane stationary motions. *Magnit. Gidrodinamika* 2 (1966), 65-73 *(Russian); translated as Magnetohydrodynamics* 2 (1966), 36-40 (1968). (A. A. Blank) 39 #5095

The Schwarzschild metric in a synchronous frame of reference. *Dokl. Akad. Nauk SSSR* 187 (1969), 75-78 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 657-659. 41 #5023

Stankevič, I. V.

(with Bočvar, D. A.; Čistjakov, A. L.) Concerning the entropy expression of the uncertainty principle. *Dokl. Akad. Nauk SSSR* 149 (1963), 68-71 *(Russian); translated as Soviet Physics Dokl.* 8 (1963), 262-264. (A. Siegel) 29 #1960

(with Gehtman, M. M.) On the spectrum of non-selfadjoint differential operators. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 29-32. (R. G. Bartle) 29 #6343

The asymptotic behaviour as $t \to \infty$ of the solution of the non-stationary Schrödinger equation with non-selfadjoint Hamiltonian. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1271-1274. (A. J. Coleman) 31 #1459

On the linear similarity between certain nonselfadjoint operators and selfadjoint ones and on the asymptotic behavior of the nonstationary Schrödinger equation for $t \to \infty$. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 161-207. (J. Rovnyak) 33 #3138

(with Gehtman, M. M.) A study of the analytic properties of the resolvent kernel of a fourth order ordinary differential operator on a Riemann surface. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 23-26. (J. F. Heyda) 38 #3499

(with Gehtman, M. M.) A certain boundary value problem that is generated by a selfadjoint differential Sturn-Liouville operator on the whole real axis. (Russian) *Mat. Zametki* 6 (1969), 681-692. (L. Janos) 41 #3862

The spherical wave of a scalar Planckeon. *Dokl. Akad. Nauk SSSR* 190 (1970), 309-312 *(Russian); translated as Soviet Physics Dokl.* 15 (1970/71), 43-45. (N. D. Sengupta) 42 #8851

A certain inverse spectral analysis problem for Hill's equation. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 34-37. (I. Kiguradze) 41 #7195

A certain inverse problem for periodic Jacobi matrices. (Russian) *Mat. Zametki* 8 (1970), 297-307. (G. Biriuk) 43 #2552

Stankevich, I. V. See Stankevič, I. V.

Stankiewicz, A.

Tables of the integro-exponential functions. *Acta Astronom.* 18 (1968), 289-311. (Editors) 39 #1076

Stankiewicz, Jan

(with Lewandowski, Zdzisław) On mutually adjoint close-to-convex functions. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 19 (1965), 47-51 (1970). (M. S. Robertson) 41 #5611

Some remarks on functions starlike with respect to symmetric points. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 19 (1965), 53-59 (1970). (M. S. Robertson) 41 #5612

Some remarks concerning starlike functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 143-146. (S. D. Bernardi) 41 #8650

Štan'ko, M. A.

Imbedding of tree-like compact sets into E^3. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 292-294. (A. Lelek) 33 #6607

The imbedding of tree-like compacta in E^3. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 211-224. (J. J. Charatonik) 36 #5918

The imbedding of compacta in euclidean space. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 1269-1272. (A. Lelek) 40 #2039

Imbedding of compacta in euclidean space. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 234-255. (A. Lelek) 42 #6804

Approximation of the imbedding of compacta in a codimension larger than two. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 783-786. (A. Lelek) 44 #2218

Stańko, S.

On existence theorems for some class of non-linear Tchebycheff approximations. *Prace Mat.* 12 (1969), 301-304. (G. Meinardus) 40 #6141

Štan'ko, V. A.

The outflow of fluid from a channel through a curvilinear nozzle. (Russian) *Tomsk. Gos. Univ. Učen. Zap. No.* 68 (1967), 213-224. (B. Dolapčiev) 43 #5788

Outflow of fluid from a cylinder. (Russian) *Tomsk. Gos. Univ. Učen. Zap. No.* 68 (1967), 225-230. (B. Dolapčiev) 43 #4340

A cavitational flowing around an arc of a circle, in an unbounded stream and in a channel. (Russian) *Tomsk. Gos. Univ. Učen. Zap. No.* 68 (1967), 231-241. (B. Dolapčiev) 43 #5789

Stanković, Bogoljub

Les invariantes de la transformation de Fourier. (Serbo-Croatian summary) *Bull. Soc. Math. Phys. Serbie* 12 (1960), 3-12. (J. Blackman) 32 #4465

Generalized functions and operations with them—distributions. (Serbo-Croatian. French summary) *Mat. Vesnik* 1(16) (1964), 221-228. (Author's summary) 32 #6214

(with Skendžić, Marija) Opérateurs parfaits. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 57-62. (J. Blackman) 30 #5130

La convergence des séries d'opérateurs. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 141-145. (J. Blackman) 30 #5090

Existence and uniqueness of the solution of a differential equation in the field of Mikusiński operators. (Serbian. French summary) *Acad. Serbe Sci. Arts Glas* 260 (1965), 29-37. (Author's summary) 33 #1523

Conditions for compactness in a space of type B_0^*. (Serbo-Croatian. French summary) *Mat. Vesnik* 2(17) (1965), 69-72. (Author's summary) 33 #4654

Solution de l'équation différentielle dans un sous-ensemble des opérateurs de J. Mikusiński. *Publ. Inst. Math. (Beograd) (N.S.)* 5(19) (1965), 89-95. (L. Berg) 32 #4486

Space C_s, the subspace of Mikusiński's operator. (Serbo-Croatian. French summary) *Acad. Serbe Sci. Arts Glas* 263 (1966), 149-163. (S. Kurepa) 34 #3245

L'existence et l'unicité de la solution de l'équation différentielle dans le corps des opérateurs de J. Mikusiński. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 35 (1966), *no.* 5, 21-26. (I. Fenyö) 34 #6183

Espace C_s, le sous-espace des opérateurs de J. Mikusiński. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 35 (1966), *no.* 5, 51-61. (I. Fenyö) 34 #8115

Existence et unicité de la solution de l'équation différentielle opératoire du premier ordre. *Bull. Sci. Conseil Acad. RSF Yougoslav. Sect. A* 11 (1966), 97. (L. Berg) 33 #4348

L'élément maximal d'une matrice. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 23-24. (L. Berg) 34 #7537

L'équation différentielle vectorielle. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 77-82. (L. Berg) 34 #8116

Sur la convergence d'une série d'opérateurs. *Studia Math.* 26 (1966), 117-120. (D. Laugwitz) 32 #8073

Conditions de non existence des solutions de l'équation différentielle des opérateurs de J. Mikusiński. *Studia Math.* 28 (1966/67), 235-240. (G. Doetsch) 35 #5870

Existence and uniqueness of the solution of an operator differential equation of the first order. (Serbo-Croatian. French summary) *Acad. Serbe Sci. Arts Glas* 269 (1967), 25-36. (M. Bertolino) 36 #1721

An inequality for the elements of a certain class of matrices. (Serbo-Croatian. English summary) *Godišnjak Filozof. Fak. u Novom Sadu No.* 10 (1967), 539-543. (E. Seneta) 41 #242

(with Tošić, R.) L'élément maximal d'une matrice spéciale. *Publ. Inst. Math. (Beograd) (N.S.)* 7(21) (1967), 65-68. (L. Berg) 36 #191

(with Nikolić-Despotović, D.) Continuité d'une fonction opératoire. *Publ. Inst. Math. (Beograd) (N.S.)* 7(21) (1967), 197-203. (R. Sikorski) 37 #6703

Some theorems on fixed points and their applications. *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 297-301. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (S. Swaminathan) 42 #8359

Les équations différentielles des opérateurs de J. Mikusiński. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 3, 383-388 (1970). (D. Laugwitz) 42 #8201

Operator linear differential equation of order m. *J. Differential Equations* 5 (1969), 1-11. (L. Berg) 38 #1476

The existence and the unicity of solution of a system of operator differential equations. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 85-92. (L. Berg) 40 #1741

Differential equations in locally convex spaces. (Serbo-Croatian) *Mat. Vesnik* 7(22) (1970), 551-558. (D. Bobrowski) 43 #7751

(with Hadžić, O.) Some theorems on the fixed point in locally convex spaces. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 9-19. (M. Edelstein) 43 #6789

On the function of E. M. Wright. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 113-124. (N. C. Jain) 43 #6481

Stanković, Miomir S.

Some inequalities for a simplex. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 330-337 (1970), 53-54. (A. Dinghas) 44 #7435

Stankovitsch, B. See Stanković, Bogoljub.

Stanku, D. D. See Stancu, Dumitru D.

Stanley, H. E.

(with Kaplan, T. A.) High-temperature expansions—the classical Heisenberg model. *Phys. Rev. Lett.* 16 (1966), 981-983. (C. De Dominicis) 33 #7046

Stanley, M. G.

Generation of full varieties. *Michigan Math. J.* 13 (1966), 127-128. (P. M. Cohn) 33 #90

On the product of equivalence relations. *Amer. Math. Monthly* 75 (1968), 47. (R. McFadden) 37 #3977

The Riemann surface of a ring. *J. Austral. Math. Soc.* 10 (1969), 251-256. (Ian Richards) 41 #463

Stanley, Richard P.

Zero square rings. *Pacific J. Math.* 30 (1969), 811-824. (S. Williamson) 40 #4293

A chromatic-like polynomial for ordered sets. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 421-427. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (W. T. Tutte) 42 #4440

Structure of incidence algebras and their automorphism groups. *Bull. Amer. Math. Soc.* 76 (1970), 1236-1239. (V. S. Krishnan) 41 #8319

On the number of open sets of finite topologies. *J. Combinatorial Theory Ser. A* 10 (1971), 74-79. (R. J. Bumcrot) 42 #7527

Stanley, Robert L.

Natural deduction, inference, and consistency. *Proc. Amer. Math. Soc.* 16 (1965), 367-374. (K. Schütte) 31 #3306

Stanojević, Časlav V.

(with Blass, A. R.) On the location of singularities of analytic functions. *Amer. Math. Monthly* 77 (1970), 736-738. (B. L. Sharma) 42 #474

Mielnik's probability manifolds and inner product spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 531-532. (V. K. Balakrishnan) 42 #8259

(with Ivković, Z.; Kocher, M.) On random n-fold coincidences. *J. Appl. Probability* 7 (1970), 785-787. (L. A. Aroian) 43 #8163

(with Blass, A. R.; Falcao, L.) On idempotent elements in certain associative algebras. *Mat. Vesnik* 7(22) (1970), 307-309. (M. Djabali) 42 #6038

(with Blass, A. R.) On certain classes of associative rings. *Math. Balkanica* 1 (1971), 19-21. (J. T. Arnold) 44 #6738

Stanojević, Momir

A note on convergence of star-shaped sets. *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 302-304. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (D. E. Wulbert) 42 #2451

Stanosz, Barbara

Formal theories of extension and intension of expressions. (Polish. Russian and English summaries) *Studia Logica* 15 (1964), 37-48. (Author's summary) 32 #2311

Stanoyevitch, Tchaslav. See Stanojević, Caslav V.

Stansfield Eastwood, Bruce. See Eastwood, Bruce Stansfield.

Stanton, Charles M.

The closed ideals in a function algebra. *Trans. Amer. Math. Soc.* 154 (1971), 289-300. (E. L. Stout) 42 #4755

Stanton, Ralph G.

(See Topics in modern mathematics, 31 #2105)

(with Sprott, D. A.) Block intersections in balanced incomplete block designs. *Canad. Math. Bull.* 7 (1964), 539-548. (E. Seiden) 30 #4692

(with Mullin, R. C.) Inductive methods for balanced incomplete block designs. *Ann. Math. Statist.* 37 (1966), 1348-1354. (D. A. Sprott) 33 #5062

(with Williams, H. C.; Zarnke, C. R.) A packing problem. *Canad. Math. Bull.* 10 (1967), 287-297. (F. Supnick) 35 #7208

(with Mullin, R. C.) A combinatorial property of spanning forests in connected graphs. *J. Combinatorial Theory* 3 (1967), 236-243. (K. Wagner) 35 #5353

(with Kalbfleisch, J. G.) Covering problems for dichotomized matchings. *Aequationes Math.* 1 (1968), *no.* 1-2, 94-103. (W. Moser) 37 #6192

(with Mullin, R. C.) Construction of Room squares. *Ann. Math. Statist.* 39 (1968), 1540-1548. (E. Seiden) 38 #2904

(with Kalbfleisch, J. G.) On a certain set of linear inequalities. *Canad. Math. Bull.* 11 (1968), 681-690. (B. N. Parlett) 39 #2788

(with Kalbfleisch, J. G.) Quasi-symmetric balanced incomplete block designs. *J. Combinatorial Theory* 4 (1968), 391-396. (Q. M. Husain) 36 #3473

(with Kalbfleisch, J. G.) On the maximal triangle-free edge-chromatic graphs in three colors. *J. Combinatorial Theory* 5 (1968), 9-20. (H. V. Kronk) 37 #3934

(with Kalbfleisch, J. G.) Maximal and minimal coverings of $(k-1)$-tuples by k-tuples. *Pacific J. Math.* 26 (1968), 131-140. (H. Hanani) 38 #2032

(with Mullin, R. C.) Classification and embedding of BIBD's. *Sankhya Ser. A* 30 (1968), 91-100. (S. S. Shrikhande) 39 #7765

(with Mullin, R. C.) Ring generated difference blocks. *Sankhya Ser. A* 30 (1968), 101-106. (H. B. Mann) 40 #4137

Covering theorems in groups (or: How to win at football pools). *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 21-36. *Academic Press, New York,* 1969. (O. Taussky-Todd and John Todd) 41 #1547a

(with Lawless, J. F.; Mullin, R. C.) Quasi-residual designs. *Aequationes Math.* 2 (1969), 274-281. (W. A. McWorter) 39 #4025

(with Mullin, R. C.) Identities from graphs. *Duke Math. J.* 36 (1969), 605-608. (D. J. A. Welsh) 43 #78

Interconnections of related BIBDs. *J. Combinatorial Theory* 6 (1969), 387-391. (H. Hanani) 39 #4029

(with Mullin, R. C.) Uniqueness theorems in balanced incomplete block designs. *J. Combinatorial Theory* 7 (1969), 37-48. (H. B. Mann). 39 #81

(with Kalbfleisch, J. G.) Corrigendum: "A combinatorial problem in matching". *J. London Math. Soc.* (2) 1 (1969), 398. (Editors) 39 #6759

(with Horton, J. D.; Kalbfleisch, J. G.) Covering theorems for vectors with special reference to the case of four and five components. *J. London Math. Soc.* (2) 1 (1969), 493-499. (L. K. Durst) 40 #2553

(with Kalbfleisch, J. G.) A combinatorial problem in matching *J. London Math. Soc.* 44 (1969), 60-64. (L. R. Welch) 38 #62

(with Kalbfleisch, J. G.) Intersection inequalities for the covering problem. *SIAM J. Appl. Math.* 17 (1969), 1311-1316. (J. G. Mauldon) 42 #5817

(with Mullin, R. C.) Techniques for Room squares. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 445-464. *Louisiana State Univ., Baton Rouge, La.,* 1970. (From the authors' introduction) 42 #1679

(with Kalbfleisch, J. G.) The λ-μ problem: $\lambda=1$ and $\mu=3$. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 451-462. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (R. C. Mullin) 42 #2954

(with Kalbfleisch, J. G.; Mullin, R. C.) Covering and packing designs. *Proc. Second Chapel Hill Conf. on Combinatorial Mathemati and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 428-450. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (J. Schonheim) 42 #4424

(with James, L. O.; Cowan, D. D.) A problem in coding theory. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 167-179. *Louisiana State Univ., Baton Rouge, La.,* 1970. (G. Solomon) 42 #5706

(with Mendelsohn, N. S.) Some results on ordered quadruple systems. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 297-309. *Louisiana State Univ., Baton Rouge, La.,* 1970. (E. F. Assmus, Jr.) 42 #5827

(with Kalbfleisch, J. D.; Kalbfleisch, J. G.) A combinatorial problem on convex n-gons. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 180-188. *Louisiana State Univ., Baton Rouge, La.,* 1970. (W. E. Bonnice) 42 #8394

(with Roselle, D. P.) Results on Davenport-Schinzel sequences *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 249-267. *Louisiana State Univ., Baton Rouge, La.,* 1970. (N. G. de Bruijn) 43 #68

(with Tilley, R. C.; Cowan, D. D.) The cell growth problem fo filaments. *Proc. Louisiana Conf. on Combinatorics, Graph Theroy and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 310-339. *Louisiana State Univ., Baton Rouge, La.,* 1970. (D. A. Klarner) 43 #69

(with Cowan, D. D.; James, L. O.) Some results on path numbers. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 112-135. *Louisiana State Univ., Baton Rouge, La.,* 1970. (F. Harary) 44 #108

(with Roselle, D. P.) Some properties of Davenport-Schinzel sequences. *Acta Arith.* 17 (1970/71), 355-362. (M. S. Cheema) 44 #1641

(with Kalbfleisch, J. G.) Coverings of pairs by k-sets. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 366-369. (C. Berge) 42 #87

(with Cowan, D. D.) Note on a "square" functional equation. *SIAM Rev,* 12 (1970), 277-279. (D. A. Klarner) 41 #5226

(with Kalbfleisch, J. G.; Horton, J. D.) On covering sets and error-correcting codes. *J. Combinatorial Theory Ser. A* 11 (1971), 233-250. (N. J. A. Sloane) 44 #8039

Stanton, Richard E.

Variation-perturbation approach to electron-cluster wavefunctions. *J. Chem. Phys.* 42 (1965), 2353-2362. (A. Dalgarno) 34 #5455

Stanyukovič, K. P. See Stanjukovič, K. P.

Stanyukovich, K. P. See Stanjukovič, K. P.

Staples, E. B.

A short and elementary proof that a product of spheres is parallelizable if one of them is odd. *Proc. Amer. Math. Soc.* 18 (1967), 570-571. (Ronald Brown) 36 #2165

Staples, John

A non-standard representation of Boolean algebras, and applications. *Bull. London Math. Soc.* 1 (1969), 315-320. (W. A. J. Luxemburg) 40 #7167

Stapleton, C. A.

(with Ragg, B. C.) Time optimal control of second-order systems with transport lag. *Internat. J. Control* (1) 9 (1969), 243-257. (G. M. Ewing) 39 #5199

Stapp, Henry P.

Derivation of the CPT theorem and the connection between spin and statistics from postulates of the S-matrix theory. *Phys. Rev.* (2) 125 (1962), 2139-2162. (Author's summary) 29 #1901

On the masses and lifetimes of unstable particles. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 103-121. (John G. Taylor) 30 #3717

Analytic S-matrix theory. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste, 1965), pp.* 3-54. *International Atomic Energy Agency, Vienna,* 1965. (J. Gunson) 34 #3904

Space and time in S-matrix theory. *Phys. Rev.* (2) 139 (1965), B257-B270. (R. J. Eden) 32 #6937

Crossing, Hermitian analyticity, and the connection between spin and statistics. *J. Mathematical Phys.* 9 (1968), 1548-1592. (A. O. Barut) 40 #1091

(with Wright, J. L.) On integral representations for N-particle functions. (Italian and Russian summaries) *Nuovo Cimento A* (10) 57 (1968), 475-496. (D. I. Olive) 38 #1886

(with Iagolnitzer, Daniel) Macroscopic causality and physical region analyticity in S-matrix theory. *Comm. Math. Phys.* 14 (1969), 15-55. (A. O. Barut) 40 #6865

(with Coster, Joseph) Physical-region discontinuity equations for many-particle scattering amplitudes. I. *J. Mathematical Phys.* 10 (1969), 371-396. (D. I. Olive) 40 #3829

(with Chandler, Colston) Macroscopic causality conditions and properties of scattering amplitudes. *J. Mathematical Phys.* 10 (1969), 826-859. (J. N. Islam) 40 #3825

(with Coster, Joseph) Physical-region discontinuity equations for many-particle scattering amplitudes. II. *J. Mathematical Phys.* 11 (1970), 1441-1463. (D. I. Olive) 41 #9532

(with Coster, Joseph) Physical-region discontinuity equation. *J. Mathematical Phys.* 11 (1970), 2743-2763. (M. J. Westwater) 42 #4117

Starcev, A. N.

(with Nagaev, A. V.) A threshold theorem for a certain model of an epidemic. (Russian) *Mat. Zametki* 3 (1968), 179-185. (C. A. B. Smith) 37 #4898

(with Nagaev, A. V.) Asymptotic analysis of a certain stochastic model of an epidemic. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 97-105. (K. Dietz) 42 #4225

Starcev, V. A.

Symmetric continuity and symmetric differentiability with respect to sets. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 1251-1253. (W. Smajdor) 39 #2920

Starik, L. K.

Interaction of a quasilinear oscillating system with a source of energy involving delay of connections. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 3 (1965), 119-132. (Author's summary) 32 #9088

Starikov, V. N.

(with Djad kin, I. G.) A possible way of economizing computer time in the solution of the Laplace equation by the Monte-Carlo method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 936-938. (J. H. Halton) 35 #6331

(with Granovskiĭ, Ja. I.) Unitariness and boundary conditions. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 4, 3-6. (N. Rosen) 34 #5423

Unitary amplitude of scattering. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 4, 7-10. (R. Cirelli) 36 #1160

Stark, Eberhard L.

Über die Approximationsmasse spezieller singulärer Integrale. (English summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 153-159. (Author's summary) 39 #7336

(with Butzer, P. L.) Wesentliche asymptotische Entwicklungen für Approximationsmasse trigonometrischer singulärer Integrale. *Math. Nachr.* 39 (1969), 223-237. (G. G. Lorentz) 40 #3139

Stark, Harold M.

On the asymptotic density of the k-free integers. *Proc. Amer. Math. Soc.* 17 (1966), 1211-1214. (O. H. Körner) 33 #7310

On complex quadratic fields with class number equal to one. *Trans. Amer. Math. Soc.* 122 (1966), 112-119. (E. Weiss) 33 #4043

L-functions and character sums for quadratic forms. I. *Acta Arith.* 14 (1967/68), 35-50. (T. Kubota) 37 #2707

On the zeros of Epstein's zeta function. *Mathematika* 14 (1967), 47-55. (S. Chowla) 35 #6633

A complete determination of the complex quadratic fields of class-number one. *Michigan Math. J.* 14 (1967), 1-27. (L. Ehrenpreis) 36 #5102

There is no tenth complex quadratic field with class-number one. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 216-221. (A. Brumer) 35 #2859

L-functions and character sums for quadratic forms. II. *Acta Arith.* 15 (1968/69), 307-317. (T. Kubota) 39 #4101

On the problem of unique factorization in complex quadratic fields. Number Theory (Proc. Sympos. Pure Math., Vol. XII, Houston, Tex., 1967), pp. 41-56. *Amer. Math. Soc., Providence, R. I.,* 1969. (W. Narkiewicz) 40 #5571

On the "gap" in a theorem of Heegner. *J. Number Theory* 1 (1969), 16-27. (Harvey Cohn) 39 #2724

The role of modular functions in a class-number problem. *J. Number Theory* 1 (1969), 252-260. (K. G. Ramanathan) 41 #6815

A historical note on complex quadratic fields with class-number one. *Proc. Amer. Math. Soc.* 21 (1969), 254-255. (H. Yokoi) 38 #5743

* An introduction to number theory. *Markham Publishing Co., Chicago, Ill.,* 1970. x + 347 *pp.* (A. L. Whiteman) 40 #7186

A problem in comparative prime number theory. *Acta Arith.* 18 (1971), 311-320. (H. L. Montgomery) 44 #6642

Values of L-functions at $s = 1$. I. L-functions for quadratic forms. *Advances in Math.* 7, 301-343 (1971). (O. H. Körner) 44 #6620

Stark, J. M.

Application of Bergman's integral operators to transonic flows. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 1 (1966), 17-34. 37 #6070

Stark, J. P.

(with Bagwell, J. R.; Beightler, C. S.) On a class of convex allocation problems. *J. Math. Anal. Appl.* 25 (1969), 218-231. (R. L. Graves) 38 #5462

Stark, Marceli

* (with Mostowski, Andrzej) Elementy algebry wyższej. (Polish) [The elements of higher algebra] Second edition, corrected and supplemented. Biblioteka Matematyczna, Tom 16. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1963. 391 *pp.* (H. Minc) 29 #111

* (with Mostowski, A.) Introduction to higher algebra. Translated from the Polish by J. Musielak. International Series of Monographs on Pure and Applied Mathematics, Vol. 37. *A Pergamon Press Book. The Macmillan Co., New York,* 1964. 474 *pp.* (Editors) 31 #183

Stark, Richard

Eine Transformation in Räumen verallgemeinerter Funktionen. *Monatsh. Math.* 73 (1969), 422-432. (C. W. Swartz) 41 #819

Stark, Robert M.

Competitive bidding: A comprehensive bibliography. *Operations Res.* 19 (1971), 484-490. 43 #1600

Starke, Peter H.

Theorie stochastischer Automaten. I. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 1 (1965), 5-32. (Author's summary) 36 #6236

Theorie stochastischer Automaten. II. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 1 (1965), 71-98. (Author's summary) 36 #6237

Die Imitation endlicher Medwedjew-Automaten durch Nervennetze. *Z. Math. Logik Grundlagen Math.* 11 (1965), 241-248. (From the author's introduction) 39 #3923

Einige Bemerkungen über nicht-deterministische Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 2 (1966), 61-82. (S. Ginsburg) 36 #6238

Stochastische Ereignisse und stochastische Operatoren. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 2 (1966), 177-190. (Author's summary) 36 #4925

Theory of stochastic automata. (Czech summary) *Kybernetika (Prague)* 2 (1966), 475-482. (H. D. Block) 35 #4060

Stochastische Ereignisse und Wortmengen. *Z. Math. Logik Grundlagen Math.* 12 (1966), 61-68. (J. R. Büchi) 33 #5409

(with Thiele, Helmut) Zufällige Zustände in stochastischen Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 25-37. (E. C. Posner) 36 #7445

Hüllenoperationen für nicht-deterministische Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 283-294. (J. Hartmanis) 37 #6135

(with Neuber, Siegfried) Über Homomorphie und Reduktion bei nicht-deterministischen Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 351-361. (N. Zierler) 39 #1244

Über Experimente an Automaten. *Z. Math. Logik Grundlagen Math.* 13 (1967), 67-80. (J. Hartmanis) 35 #60

Die Reduktion von stochastischen Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 93-99. (Author's summary) 38 #6906

Äquivalenz und Reduktion bei stochastischen Automaten. *Wiss. Z. Techn. Univ. Dresden* 17 (1968), 1118-1122. (A. Salomaa) 40 #1212

* Abstrakte Automaten. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 392 *pp.* (A. Salomaa) 43 #1769

Über die Minimalisierung von stochastischen Rabin-Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 153-170. (A. J. Lohwater) 44 #3806

Schwache Homomorphismen für stochastische Automaten. *Z. Math. Logik Grundlagen Math.* 15 (1969), 421-429. (A. Salomaa) 42 #1613

Über reguläre nicht-deterministische Operatoren. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 6 (1970), 229-237. (C. Reischer) 43 #7271

(with Theile, Helmut) On asynchronous stochastic automata. *Information and Control* 17 (1970), 265-293. (A. Paz) 43 #3051

Starkov, N. G.

(with Kurbatov, V. A.) The analytic representation of permutations. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 31 (1965), 151-158. (R. A. Good) 35 #6652

(with Kurbatov, V. A.) The space of linear dependencies of the roots of an equation of degree p^n. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 31 (1965), 169-172. (H. Schwerdtfeger) 35 #5422

The group of the space of linear relations of the roots of an equation of degree p^2. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 169-172. (E. Inaba) 40 #4249

The Galois group of an equation of degree p^2 with linear dependence of the roots. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 173-185. (R. A. Good) 42 #237

Stárkov, V. M.

Conformal representation of certain simply connected domains. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1971, 39-42, 93. (J. G. Krzyż) 44 #5440

Starobin, K. B.

* (with Volodin, B. G.; Ganin, M. P.; Diner, I. Ja.; Komarov, L. B.; Svešnikov, A. A.) Сборник задач по теории вероятностей, математической статистике и теории случайных функций. (Russian) [Collection of problems in the theory of probability, mathematical statistics and theory of random functions] Edited by A. A. Svešnikov. *Izdat. "Nauka", Moscow,* 1965. 632 *pp.* (M. R. Leadbetter) 32 #8366

The determination of the center of dispersion of a random iterative sample. (Russian) *Leningrad. Inž.-Èkonom. Inst. Trudy Vyp.* 63 (1966), 41-47. (I. Cuculescu) 36 #4677

Reliability estimate by a Monte Carlo method. (Russian) *Leningrad. Inž.-Èkonom. Inst. Trudy Vyp.* 63 (1966), 48-50. (G. K. Eagleson) 38 #2925

A queueing system with "exponentially impatient" clients. (Russian) *Leningrad. Inž.-Èkonom. Inst. Trudy Vyp.* 63 (1966), 51-54. (M. R. Leadbetter) 36 #3425

* (with Diner, I. Ja.; Ganin, M. P.; Komarov, L. B.; Svešnikov, A. A.; Volodin, B. G.) Wahrscheinlichkeitsrechnung und mathematische Statistik in Aufgaben. Unter der Redaktion von A. A. Sweschnikow. Aus dem Russischen übersetzt von R. Müglig. Mathematik für technische Hochschulen, Band 9. *BSB B. G. Teubner Verlagsgesellschaft, Leipzig,* 1970. vii + 500 *pp.* (Editors) 43 #1235

Starokadoms'kiĭ, L. O.

Solution of the Dirichlet problem on a plane with slits by the method of singular integral equations. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 606-616. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (G. Biriuk) 33 #2821

The approximate solution of integral equations by the collocation method and by the method of reduction to the problem of Čebyšev approximation. (Ukrainian. Russian summary) *Vīsnik L'vīv. Derž. Univ. Ser. Meh.-Mat.* 1967, *vyp.* 3, 85-88. 37 #3795

Starosel'skiĭ, L. A.

(with Šelud'ko, G. A.; Kantor, B. Ja.) A realization of the gully method with adaptation of the size of the gully spacing according to the exponential law. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1161-1167. (A. Rapoport) 39 #2300

Starostin, A. I.

On non-completely decomposable groups all of whose subgroups are completely decomposable. (Russian) *Učen. Zap. Ural. Gos. Univ.* 1959, *vyp.* 23, 22-28. (L. Fuchs) 30 #3146

The structure of a completely decomposable kernel of locally finite groups. (Russian) *Učen. Zap. Ural. Gos. Univ.* 1959, *vyp.* 23, 29-34. (L. Fuchs) 30 #3147

Letter to the editor. (Russian) *Učen. Zap. Ural. Gos. Univ.* 1960, *vyp.* 23, 65-66. (L. Fuchs) 30 #2384

(with Kontorovič, P. G.; Pekelis, A. S.) Lattice-theoretic problems of group theory. (Russian) *Ural. Gos. Univ. Mat. Zap.* 3, *tetrad* 1, 3-50 (1961). (L. Fuchs) 30 #2082

(with Busarkin, V. M.) Finite indecomposable groups all of whose subgroups have an Abelian partition. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 1, 22-31 (1963). (L. Fuchs) 32 #1243

(with Busarkin, V. M.) Finite groups, all of whose proper subgroups possess a nilpotent partition. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 97-108. (H. Salzmann) 31 #1300

On groups whose centralizers have partitions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 605-614. (R. Kochendörffer) 31 #3499

The kernel of a partition of locally finite groups. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 551-567. (L. G. Kovács) 32 #2479

Finite groups close to those with partition. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 773-776. (L. Fuchs) 36 #263

Finite groups with a centralizer condition. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 305-334. (J. Wiegold) 36 #264

Minimal groups not having given properties. *Mat. Zametki* 3 (1968), 33-37. (J. Wiegold) 37 #308

Decompositions and centralizers in finite group theory. (Russian) *Mat. Zametki* 6 (1969), 499-511. (Editors) 40 #2747

(with Sesekin, N. F.; Ševrin, L. N.) The scientific work of P. G. Kontorovič. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 5-19. (Editors) 44 #19

Staroverov, A. N.

(with Aleksandrov, V. M.; Batkov, A. M.; Ščukin, B. A.) An investigation of the accuracy of nonlinear non-stationary systems by means of a statistical linearization method. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 492-499. (Authors' summary) 30 #5854

Starr, A. W.

(with Ho, Y. C.) Nonzero-sum differential games. *J. Optimization Theory Appl.* 3 (1969), 184-206. (C. P. Tsokos) 40 #2364

(with Ho, Y. C.) Further properties of nonzero-sum differential games. *J. Optimization Theory Appl.* 3 (1969), 207-219. (C. P. Tsokos) 40 #2365

(with Ciletti, Michael D.) Differential games: A critical view. *Differential Games: Theory and Applications (Symposium, Atlanta, Ga.,* 1970*), pp.* 1-17. *Amer. Soc. Mech. Engrs., New York,* 1970. (A. Friedman) 41 #9588

Starr, Norman

On the asymptotic efficiency of a sequential procedure for estimating the mean. *Ann. Math. Statist.* 37 (1966), 1173-1185. (S. Blumenthal) 34 #916

The performance of a sequential procedure for the fixed-width interval estimation of the mean. *Ann. Math. Statist.* 37 (1966), 36-50. (P. E. Ney) 32 #4812

(with Robbins, Herbert E.; Simons, G.) A sequential analogue of the Behrens-Fisher problem. *Ann. Math. Statist.* 38 (1967), 1384-1391. (D. Siegmund) 35 #5086

(with Robbins, Herbert E.; Sobel, Milton) A sequential procedure for selecting the largest of k means. *Ann. Math. Statist* 39 (1968), 88-92. (D. Siegmund) 36 #6068

(with Woodroofe, Michael B.) Remarks on a stopping time. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1215-1218. (S. Orey) 39 #1053

(with DeGroot, M. H.) Optimal two-stage stratified sampling. *Ann. Math. Statist.* 40 (1969), 575-582. (L. J. Savage) 38 #5333

(with Woodroofe, Michael B.) Remarks on sequential point estimation. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 285-288. (S. Blumenthal) 42 #7001

Starr, Norton

On an operator limit theorem of Rota. *Ann. Math. Statist.* 36 (1965), 1864-1966. (D. L. Burkholder) 31 #6273

Operator limit theorems. *Trans. Amer. Math. Soc.* 121 (1966), 90-115. (D. L. Burkholder) 32 #8167

Starshinski, W. M. See Staržinskiĭ, V. M.

Staršinova, L. V.

Solution of a boundary value problem for an elliptic type equation with discontinuous coefficients in a rectangular region with logarithmic singularities. (Russian) *Izv. Kazan. Fil. Akad. Nauk SSSR Ser. Fiz.-Mat. i Tehn. Nauk* 1962, *vyp.* 15, 53-67. 33 #2943

Starun, Ī. Ī.

(with Škīl', M. Ī.) Construction of an asymptotic solution of a system of linear differential equations with slowly varying coefficients in the case of multiple elementary divisors. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1002-1009. (M. Ráb) 40 #2978

(with Škil', M. Ī.) Construction of an asymptotic solution of a system of linear differential equations with slowly varying coefficients in the case of multiple elementary divisors. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 21-25, 83. (A. A. Juščenko) 40 #5987; erratum, 41, p. 1965

The asymptotic behavior of the solutions of generalized L-diagonal systems. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 602-606, 667. (A. A. Juščenko) 42 #606

The reduction of systems of linear differential equations to the generalized L-diagonal form. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1970, *no.* 12, 125-133. (Tadeusz Dłotko) 44 #7026

Staruszkiewicz, A.

Gravitation theory in three-dimensional space. *Acta Phys. Polon.* 24 (1963), 735-740. (C. Gilbert) 29 #4581

On propagation of the Riemann tensor in the theory of gravitation. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 271-273. (W. Rindler) 29 #5610

Starzhinskii, V. M. See Staržinskiĭ, V. M.

Staržinskiĭ, V. M.

Vereinigung der Methoden von Ljapunow und Poincaré in der Theorie der nichtlinearen Schwingungen. (Russian and French summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 123-129. (S. P. Diliberto) 33 #6038

On a method in the theory of nonlinear oscillations. (Russian. Romanian summary) *Bul. Inst. Politehn. Iasi (N.S.)* 11(15) (1965), *fasc.* 1-2, 81-88. (P. Sagirow) 34 #8692 (with Beyreuther, J.) Parameterresonanz in fastkanonischen Systemen. (English and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 459-464. (H. C. Howard) 35 #4526

(with Koroza, V. I.) On the theory of periodic waveguides. I, II. (Russian. Romanian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 3-4, *sect. III*, 7-16; *ibid. (N.S.)* 16(20) (1970), *fasc.* 3-4, *sect. III*, 21-30. (J. E. Rosenthal) 44 #3588

Staś, W.

Some remarks on a series of Ramanujan. *Acta Arith.* 10 (1964/65), 359-368. (S. Chowla) 31 #2215

Stasheff, James Dillon

On extensions of *H*-spaces. *Trans. Amer. Math. Soc.* 105 (1962), 126-135. (V. Gugenheim) 31 #2726

(with Gitler, Samuel) The first exotic class of *BF*. *Topology* 4 (1965), 257-266. (R. K. Lashof) 31 #5215

"Parallel" transport in fibre spaces. *Bol. Soc. Mat. Mexicana* (2) 11 (1966), 68-84. (R. L. E. Schwarzenberger) 38 #5219

H-spaces from a homotopy point of view. *Conference on the Topology of Manifolds (Michigan State Univ., E. Lansing, Mich., 1967), pp.* 135-146. *Prindle, Weber & Schmidt, Boston, Mass.*, 1968. (George McCarty) 38 #6591

More characteristic classes for spherical fibre spaces. *Comment. Math. Helv.* 43 (1968), 78-86. (R. E. Mosher) 37 #2228

Associated fibre spaces. *Michigan Math. J.* 15 (1968), 457-470. (J.-P. Meyer) 40 #2083

The image of *J* as a space mod *p*. *Conf. on Algebraic Topology (Univ. of Illinois at Chicago Circle, Chicago, Ill., 1968), pp.* 276-287. *Univ. of Illinois at Chicago Circle, Chicago, Ill.*, 1969. (I. M. James) 41 #2679

Manifolds of the homotopy type of (non-Lie) groups. *Bull. Amer. Math. Soc.* 75 (1969), 998-1000. (M. L. Curtis) 39 #7623

Torsion in BBSO. *Pacific J. Math.* 28 (1969), 677-680. (S. Y. Husseini) 40 #6580

* *H*-spaces from a homotopy point of view. Lecture Notes in Mathematics, Vol. 161. *Springer-Verlag, Berlin-New York*, 1970. v + 95 *pp.* (Larry Smith) 42 #5261

Infinite loop spaces--a historical survey. *H-spaces (Actes Reunion Neuchâtel*, 1970*), pp.* 43-53. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin*, 1971. 43 #6911

(with Clough, Robert) *BSJ* does not map correctly into *BSF* mod 2. *Bull. Amer. Math. Soc.* 77 (1971), 1072-1074. (C. W. Patty) 44 #2232

Štastnová, Věnceslava

(with Vejvoda, Otto) Periodic solutions of the first boundary value problem for a linear and weakly nonlinear heat equation. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 466-477; *correction, ibid.* 14 (1969), 241. (J. R. Cannon) 39 #4512

Staszek, Walenty

Investigations on the classical logic of names. (Polish. Russian and English summaries) *Studia Logica* 25 (1969), 169-188. (From the author's summary) 41 #30

State, Émile

(with Carroll, Robert) Solutions faibles des équations d'évolution hyperboliques à domaine variable. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A931-A933. (C. Bardos) 43 #748

(with Carroll, Robert) Existence theorems for some weak abstract variable domain hyperbolic problems. *Canad. J. Math.* 23 (1971), 611-626. (Y. I. Kannai) 44 #1933

Štatland, E. S.

Certain properties of the independent increments process connected with the distribution of its maximum. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 4, 61-63. (M. R. Leadbetter) 34 #8479

On local properties of processes with independent increments. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 344-350. (H. P. McKean, Jr.) 32 #504

On the distribution of the maximum of a process with independent increments. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 531-535. (K. Dietz) 32 #8379

Asymptotic behavior of the distribution of the maximum for a certain class of processes with independent increments. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 794-796. (I. Cuculescu) 35 #1088; erratum, 35, p. 1578

Distribution of the moment of attaining the maximum for a process with independent increments. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 720-726. (I. Cuculescu) 35 #1089

Certain problems connected with first passage of a process with independent increments on one-sided and two-sided rectilinear boundaries. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 1, 92-101. (F. L. Spitzer) 33 #3356

(with Truško, T. G.) On a control system. (Russian) *Theory of Optimal Solutions (Seminar, Kiev,* 1967*), No.* 3 *(Russian); pp.* 85-89. *Akad. Nauk Ukrain. SSR, Kiev*, 1967. (Editors) 39 #6655

(with Truško, T. G.) A single-line queueing system controlled by a Markov chain and the corresponding system of inventory control. (Russian) *Theory of optimal solutions (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 51-58. *Akad. Nauk Ukrain. SSR, Kiev*, 1968. 39 #6421

(with Truško, T. G.) The limit behavior of a certain queueing system and the problem of controlling this system in a stationary regime. (Russian) *Theory of Optimal Solutions (Proc. Sem., Kiev,* 1968*), No.* 2 *(Russian), pp.* 84-90. *Akad. Nauk Ukrain. SSR, Kiev*, 1968. 42 #1242

(with Ežov, Ī. Ī.; Koroljuk, V. S.) The maximum distribution of processes with independent increments which are governed by a Markov chain. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 115-118, 185. (V. S. Koroljuk) 40 #937

Statulevičius, V.

On refinements of limit theorems for weakly dependent random variables. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 113-119. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius*, 1962. (W. Hoeffding) 32 #6534

On limit theorems for large deviations in Markov chains. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 121-123. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius*, 1962. (C. V. Stanojevic) 32 #8454

Limit theorems and their sharpening for additive random functions and sums of weakly dependent random variables. (Russian) *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962*), pp.* 683-687. *Publ. House Czech. Akad. Sci., Prague*, 1964. (J. E. Cigler) 29 #6519

On activities in mathematics in the Lithuanian *SSR*. (Russian) *Litovsk. Mat. Sb.* 5 (1965), 361-372. 32# 7381

Limit theorems for densities and the asymptotic expansions for distributions of sums of independent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 645-659. (K. Krickeberg) 33 #1876

(with Mitalauskas, A. A.) Local limit theorems and asymptotic expansions for sums of independent lattice random variables. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 6 (1966), 569-583. (H. G. Tucker) 35 #4967

On large deviations. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 133-144. (A. Fuchs) 36 #4612

Limit theorems in the case of a stable limit law. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 321-328. (M. Iosifescu) 37 #3638

The probabilities of large deviations for a sum of a random number of independent random values. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 513-516 (1968). (J. G. Wendel) 37 #4856

(with Pipiras, V.) Asymptotic distributions for sums of independent random variables. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 137-151. (V. Petrov (RŽMat 1969 #5 V25)) 40 #2151

Limit theorems for sums of random variables that are connected in a Markov chain. I, II, III. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 345-362; *ibid.* 9 (1969), 635-672; *ibid.* 10 (1970), 161-169. (V. Fabian) 42 #1188

(with Saulis, L. I.) An asymptotic expansion for the probabilities of large deviations of sums of random variables that are connected in a Markov chain. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 359-366. (R. Theodorescu) 42 #8546

Limit theorems for random functions. I. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 583-592. (J. Galambos) 43 #2765

Statuljavičjus, V. A. See Statulevičius, V.

Statuljavičus, V. A. See Statulevičius, V.

Statulyavičus, V. A. See Statulevičius, V.

Staude, Ulrich

Periodische Lösungen bei nichtlinearen partiellen Differentialgleichungen vom elliptischen Typ. *Math. Ann.* 165 (1966), 117-134. (M. Coroi-Nedelcu) 33 #6102

Periodische Lösungen von nichtlinearen elliptischen Differentialgleichungen. *J. Reine Angew. Math.* 232 (1968), 156-172. (W. J. Sweeney) 38 #3587

Staudte, Robert G., Jr.

(with Tata, Mahabanoo N.) Complex roots of real characteristic functions. *Proc. Amer. Math. Soc.* 25 (1970), 238-246. (R. G. Laha) 41 #9323

A characterization of invariant loss functions. *Ann. Math. Statist.* 42 (1971), 1322-1327. (Author's summary) 44 #4839

Stauffer, H. B.

Derived functors without injectives. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash.*, 1968, *Vol. One), pp.* 159-166. *Springer, Berlin*, 1969. (A. Heller) 39 #4250

A relationship between left exact and representable functors. *Canad. J. Math.* 23 (1971), 374-380. (M. Barr) 42 #6072

Staunton, L.

(with Finkelstein, R. J.) Massive gauge fields and associated pseudoscalar mesons. *Ann. Physics* 54 (1969), 97-121. (H. A. Smith) 40 #6863

(with Finkelstein, R. J.; Hilgevoord, J.) Group-geometrical formulation of an SU(3) × Su(3) effective Lagrangian. *Phys. Rev. D* (3) 1 (1970), 2832-2845. (J.-P. Antoine) 42 #1422

(with Findelstein, R. J.) Effective Lagrangians associated with massive gauge field. *Physica* 47 (1970), 182-212. (C. A. Hurst) 44 #6225

Stavrakas, Nick M.

(with Hare, W. R.; Kenelly, J. W.) Two cells with n points of local nonconvexity. *Proc. Amer. Math. Soc.* 27 (1971), 331-336. (K. Strubecker) 42 #5163

Stavrakova, N. E.

The principle of Hamilton-Ostrogradskii for systems with one-sided constraints. *Prikl. Mat. Meh.* 29 (1965), 738-741 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 874-878 (1966). (S. Drobot) 34 #5343

Stavre, Petre

On the invariants of a family of directions in an affinely connected space L_n. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Iaşi Stud. Cerc. Şti. Mat.* 14 (1963), 349-356. (Author's summary) 30 #4220

On Frenet formulas for curves in a space L_n with affine connections. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 1257-1263. (P. Vincensini) 32 #6361

On contact of two curves in a space L_n with affine connection. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 879-887. (L. Tamássy) 35 #3588

On parallel vectors along a curve in a space L_n with affine connection and formula of Hlavatý. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1079-1084. (V. Hlavatý) 36 #4475

Curves on varieties V_n^m in a Riemannian space V_n. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 285-293. (L. Tamássy) 39 #6217

On the Frenet formulas of a family of directions ξ_1^λ defined on a curve (C) in a Riemannian space V_n. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 469-475. (G. Vranceanu) 41 #7575

On a class of curves. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 747-752. (Gh. Th. Gheorghiu) (Zbl 155, 303)) 40 #3442

(S) curves on varieties V_n^{n-1} or V^{n-1} of Riemannian spaces V_n^n. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 753-756. (M. Stoka (Zbl 163, 434)) 40 #3470

On some coparallel connections. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1337-1340. (R. Roşca (Zbl 171, 204)) 40 #6436

(with Botez, Mihail Şt.) Alcune considerazioni sugli spazi di Norden. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 272-277. (J. J. Etayo) 40 #6441

On a variety L_{n-1} in L_n. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27) (1968), *fasc.* 2, 291-295. (G. Vranceanu) 41 #6095

On the curves B (ε) in V_n. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 793-797. (M. Stoka) 43 #3931

(with Vîrlan, I.) The Codazzi equations for a V_{n-1} in a V_n. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politehn. Bucureşti* 32 (1970), *no.* 4, 35-37. (V. Oproiu) 44 #2176

Stavroudis, Orestes N.

Automatic optical design. *Advances in Computers, Vol.* 5, *pp.* 227-255. *Academic Press, New York,* 1964. (B. A. Galler) See 31 #904

Stavroulakis, Nikias

Sur la définition et la caractérisation des sous-structures des variétés différentiables. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A24-A27. (Author's summary) 40 #7332

Sur les bornes de certaines fonctions sur les relations métriques dans un simplexe. *Enseignement Math.* (2) 13 (1967), 195-209 (1968). (G. C. Shephard) 38 #2673

Sur les sous-structures des variétés différentiables de dimension finie. *Cahiers Topologie Géom. Différentielle* 11 (1969), 73-99. (G. Tallini) 40 #3454

Stavskaja, O. N.

(with Pjateckiĭ-Šapiro, I. I.) Homogeneous networks of spontaneously active elements. (Russian) *Problemy Kibernet. No.* 20 (1968), 91-106. (Authors' summary) 44 #3720

Stavskiĭ, M. Š.

Hartogs' theorem in certain normed fields. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 776-779. (W. H. J. Fuchs) 31 #4929

Approximation of holomorphic functions by polynomials in a locally compact nonarchimedean normed field. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 853-872. (E. Inaba) 33 #4539

Entire functions bounded in a locally compact non-archimedea normed field. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 657-670. (E. Inaba) 33 #5894

Outer linear measure and Hartogs' theorem in certain normed fields. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 113-131. (H. Fast) 33 #5944

Entire functions in non-archimedean normed fields. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 191-213. (E. Inaba) 34 #2912

The order of growth of an entire function of two variables with respect to one of the variables. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 136-142. (J. Siciak) 43 #2239

Stavsky, Yehuda

On the theory of symmetrically heterogeneous plates having the same thickness variation of the elastic moduli. *Topics in Applied Mechanics, pp.* 105-116. *Elsevier, Amsterdam,* 1965. (S. R. Bodner) 32 #1957

St. Botez, Michail. See Botez, Mihail Şt.

Stead, K. A.

(with Feng, C. C.) On finite difference analysis by linear flow graphs. *Developments in Theoret. and Appl. Mech. Vol.* 2 *(Proc. Second Southeastern Conf., Atlanta, Ga.,* 1964*), pp.* 591-603. *Pergamon, Oxford,* 1965. (A. R. Mitchell) 31 #902

Stear, Edwin B.

(with Schwartz, Lawrence) A valid mathematical model for approximate nonlinear minimal-variance filtering. *J. Math. Anal. Appl.* 21 (1968), 1-6. (M. Zakai) 37 #1194

(with Weidemann, Henry L.) Entropy analysis of parameter estimation. *Information and Control* 14 (1969), 493-506. (S. Kotz 39 #8003

(with Weidemann, Henry L.) Entropy analysis of estimating systems. *IEEE Trans. Information Theory* IT-16 (1970), 264-270. (Authors' summary) 42 #7412

(with Fisher, J. R.) A note on optimal nonlinear prediction for independent increment processes. *Information Sci.* 2 (1970), 245-251. (M. Zakai) 43 #7246

(with Fisher, J. R.) Near-optimal non-linear filtering using quasi-moment functions. *Internat. J. Control* (1) 12 (1970), 685-697. 42 #9049

Stearns, Richard

Three-person cooperative games without side payments. *Advance in game theory, pp.* 377-406. *Princeton Univ. Press, Princeton, N. J.,* 1964. (R. J. Aumann) 29 #6949

(with Hartmanis, J.) Pair algebra and its application to automata theory. *Information and Control* 7 (1964), 485-507. (S. Ginsburg) 30 #1012

(with Hartmanis, J.) On the computational complexity of algorithms. *Trans. Amer. Math. Soc.* 117 (1965), 285-306. (Walter Oberschelp) 30 #1040

* (with Hartmanis, J.) Algebraic structure theory of sequentia machines. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1966. viii + 211 *pp.* (M. Yoeli) 34 #4068

(with Hennie, F. C.) Two-tape simulation of multitape Turing machines. *J. Assoc. Comput. Mach.* 13 (1966), 533-546. (J. Hartmanis) 35 #1413

(with Hartmanis, J.) Sets of numbers defined by finite automata. *Amer. Math. Monthly* 74 (1967), 539-542. (S. Huzino) 35 #2694

Convergent transfer schemes for N-person games. *Trans. Amer. Math. Soc.* 134 (1968), 449-459. (W. F. Lucas) 37 #6112

(with Lewis, P. M.) Property grammars and table machines. *Information and Control* 14 (1969), 524-549. (J.-F. Perrot) 40 #2476

(with Hartmanis, J.) Automata-based computational complexity. *Information Sci.* 1 (1968/69), 173-184. (Authors' summary) 39 #3920

(with Rosenkrantz, D. J.) Properties of deterministic top-down grammars. *Information and Control* 17 (1970), 226-256. (Authors' summary) 42 #7451

Stebbins, J. L.

On the Riemann surface generated by a function meromorphic in the unit disk with ∞ as a spiral asymptotic value. *Math. Z.* 96 (1967), 179-182. (G. G. Weill) 34 #6112

Spiral asymptotic values of functions meromorphic in the unit disk. *Nagoya Math. J.* 30 (1967), 247-262. (J. A. Cima) 35 #5625

Characterization of the set of limit points of the zeros of annular functions. *J. Reine Angew. Math.* 246 (1971), 202-204. (N. Toda) 43 #2197

Spiral functions with finite sets of asymptotic values. *J. Reine Angew. Math.* 247 (1971), 18-19. (J. Windler) 43 #2220

Stebe, Peter F.

Residual finiteness of a class of knot groups. *Comm. Pure Appl. Math.* 21 (1968), 563-583. (J. E. Roseblade) 38 #5902

On free products of isomorphic free groups with a single finitely generated amalgamated subgroup. *J. Algebra* 11 (1969), 359-362. (Hanna Neumann) 38 #1154

A residual property of certain groups. *Proc. Amer. Math. Soc.* 26 (1970), 37-42. (J. Wiegold) 41 #5494

Conjugacy separability of certain free products with amalgamation. *Trans. Amer. Math. Soc.* 156 (1971), 119-129. (Hanna Neumann) 43 #360

Conjugacy separability of the groups of hose knots. *Trans. Amer. Math. Soc.* 159 (1971), 79-90. (J. E. Roseblade) 44 # 2808

Conjugacy separability of groups of integer matrices. *Proc. Amer. Math. Soc.* 32 (1972), 1-7. (Morris Newman) 44 #6854

Štec, Miloslav

Modification of the gradient method for the solution of the Steiner-Weber problem. (Czech) *Ekonom.-Mat. Obzor* 6 (1970), 350-354. (J. Abrham) 44 #3475

Stecenko, O. G.

(with Antonov, A, M.) Application of the small-parameter method for calculating the flow of a hypersonic gas flow around planar bodies. (Russian) *Approximate methods of solving differential equations, pp.* 3-10. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. (M. D. Van Kyke) 29 #3088

(with Sīdljar, M. M.) Influence of viscosity on the hypersonic flow of a gas about an isolated wedge. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1964, *no.* 6, 39-45. (J. P. Guiraud) 33 #960

Stecenko, V. Ja.

A theorem on the complete continuity of an integral operator, and some applications of it. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 3-16. (P. Saworotnow) 37 #2042

The localization of the spectrum of an infinite matrix. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 43-48. (Ky Fan) 36 #2000

An estimate of the upper and lower bounds of the moduli of the roots of polynomials. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 69-76. (T. T. Tonkov) 36 #5313

Apropos a normality criterion of M. G. Kreĭn for a cone in a Banach space. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 94-98. (Eugene F. Steiner) 36 #1956

* (with Vilenkin, N. Ja.; Gorin, E. A.; Kostjučenko, A. G.; Krasnosel'skiĭ, M. A.; Kreĭn, S. G.; Maslov, V. P.; Mitjagin, B. S.; Petunin, Ju. I.; Rutickiĭ, Ja. B.; Sobolev, V. I.; Faddeev, L. D.; Citlanadze, È. S.) Функциональный анализ. (Russian) [Functional analysis] Edited by S. G. Kreĭn. *Izdat. "Nauka", Moscow,* 1964. 424 *pp.* (A. Shields) 32 #1532

The simplicity of the maximal eigenvalue of an integral operator. (Russian. Tajiki summary) *Studies in Boundary Value Problems, Theory of Functions, Differential Equations (Russian), pp.* 133-137. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1964. (T. Ando) 36 #3175

(with Esajan, A. R.) Estimates of the spectrum of integral operators and infinite matrices. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 254-257. (R. G. Bartle) 29 #3899

An estimate for the spectrum of some classes of linear operators. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1054-1057. (G. K. Kalisch) 29 #3898

(with Esajan, A. R.; Muhtarov, S. N.) On positive solutions of equations of the second kind with sublinear operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 8 (1965), *no.* 1, 3-6. (W. R. Transue) 32 #6266

(with Muhtarov, S. N.) On certain properties of equations with indecomposable linear operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 8 (1965), *no.* 2, 7-10. (L. de Branges) 32 #2939

(with Muhtarov, S. N.) Incompatible inequalities for irresolvable operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 8 (1965), *no.* 4, 7-11. (M. Katětov) 34 #8194

On an iterative method of finding the spectral radius of linear positive operators. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 210-220. (P. Saworotnow) 32 #2914

(with Esajan, A. R.) Theorems on positive solutions of equations of the second kind with nonlinear operators. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 473-486. (P. Saworotnow) 33 #1771

Criteria of irreducibility of linear operators. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 265-267. (T. Ando) 34 #1854; erratum, 35, p. 1577

(with Imomnazarov, B.) On a fixed-point principle. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 2, 8-11. (G. Biriuk) 36 #750

(with Esajan, A. R.; Srožiddinov, H. M.) Estimation of errors in approximate solution of linear equations in a space with a cone. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Tehn. i Him. Nauk* 1967, *no.* 1 (23), 3-17. (M. Katětov) 37 #3373

(with Čurčić, D. M.) Certain tests for the indecomposability of operators. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 665-671 (1968). (E. Gerlach) 39 #808

(with Zabreĭko, P. P.; Krasnosel'skiĭ, M. A.) Estimates of the spectral radius of positive linear operators. (Russian) *Mat. Zametki* 1 (1967), 461-468. (T. Ando) 34 #8200

(with Imomnazarov, B.) Existence of eigenvectors of nonlinear not completely continuous operators. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 146-155. (T. Leżański) 34 #6581

On a spectral property of an indecomposable operator. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 3 (135), 242-244. (T. Ando) 35 #5959

Spectral properties of indecomposable operators. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 552-554. (T. Ando) 36 #5728

A certain method of speeding up the convergence of iteration processes. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 1021-1024. (J. W. Schmidt) 37 #2424

(with Imomnazarov, B.; Sabirov, T.) The spectral properties of certain classes of linear positive operators. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 1, 6-9. (H. Triebel) 37 #5709

(with Samadov, K.) On the estimation of solutions of linear operator equations. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 3, 6-9. (P. Saworotnow) 37 #2041

(with Muhamadiev, È.; Sabirov, T.) A certain class of nonnegative kernels. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 12, 3-6. (P. Saworotnow) 40 #6309

* (with Krasnosel'skiĭ, M. A.; Vaĭnikko, G. M.; Zabreĭko, P. P.; Rutickiĭ, Ja. B.) Приближенное решение операторных уравнений. (Russian) [Approximate solution of operator equations] *Izdat. "Nauka", Moscow,* 1969. 455 *pp.* (V. Šeda) 41 #4271

(with Muhamadiev, È.; Sabirov, T.) A certain class of infinite matrices. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 1, 3-6. (P. Saworotnow) 40 #6310

(with Muhamadiev, È.) A fixed point principle in generalized metric space. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk* 1969, *no.* 4 (34), 8-19. (E. Gerlach) 43 #5515

(Krasnosel'skiĭ, M. A.) On the theory of concave operator equations. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 565-572. (C. V. Coffman) 40 #4827

The fixed points of nonlinear transformations. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 642-652. (J. Burlak) 39 #4691

(with Krasnosel'skiĭ, M. A.) Remarks on Seidel's method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 177-182. (E. M. Bruins) 40 #3332

A certain boundary value problem. (Russian) *Mathematical Physics, No. 7 (Russian), pp.* 163-166. *Naukova Dumka, Kiev,* 1970. (Š. A. Alimov) 42 #4902

(with Samadov, K.) On the geometry of cones in a Banach space. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 14 (1971), *no.* 1, 11-14. (E. Gerlach) 44 #4489

(with Sabirov, I.) An existence theorem for the second eigenvector of a linear positive operator. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 14 (1971), *no.* 3, 9-12. (H. E. Lacey) 44 #4549

(with Muhamadiev, È. M.) Sufficient conditions for the convergence of the Newton-Kantorovič method in the solution of boundary value problems for quasilinear equations of elliptic type. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 576-582. (J. Kačur) 44 #1242

Stech, Berthold

(with Rothleitner, Josef) SU6 covariant *S*-matrix formalism. *Z. Physik* 186 (1965), 399-409. (K. Kawarabayashi) 32 #8751

(with Dosch, H. Günter) Predictions for the electromagnetic formfactors of baryons from hybrid groups. *Z. Physik* 189 (1966), 455-464. (J. D. Sullivan) 33 #3661

Stechkin, S. B. See Stečkin, S. B.

Steck, George P.

(with Gupta, Shanti S.; Pillai, K. C. Sreedharan) On the distribution of linear functions and ratios of linear functions of ordered correlated normal random variables with emphasis on range. *Biometrika* 51 (1964), 143-151. (P. A. P. Moran) 30 #3517

(with Zimmer, W. J.) The relationship between Neyman and Bayes confidence intervals for the hypergeometric parameter. *Technometrics* 10 (1968), 199-203. (Authors' summary) 36 #4691

A note on contigency-type bivariate distributions. *Biometrika* 55 (1968), 262-264. (E. S. Keeping) 37 #2353

The Smirniv two sample tests as rank tests. *Ann. Math. Statist.* 40 (1969), 1449-1466. (Richard A. Johnson) 39 #7777

Rectangle probabilities for uniform order statistics and the probability that the empirical distribution function lies between two distribuiton functions. *Ann. Math. Statist.* 42 (1971), 1-11. (S. Panchapakesan) 43 #2814

Steck, Richard

A dynamic programming strategy for the two machine problem. *Math. Comp.* 18 (1964), 285-291. (B. Gluss) 29 #2946

Steckhan, Helmut

A theorem on symmetric traveling salesman problems. *Operations Res.* 18 (1970), 1163-1167. (B. Gluss) 44 #3683

Stecki, J.

Weak-coupling version of Bogoliubov's kinetic theory of gases. *Phys. Fluids* 7 (1964), 33-37. (R. Balescu) 29 #1956

On the divergence of ternary scattering operator in two dimensions. *Phys. Lett.* 19 (1965), 123-124. (P. Résibois) 32 #3692

(with Taylor, H. S.) On the areas of equivalence of the Bogoliubov theory and the Prigogine theory of irreversible processes in classical gases. *Rev. Modern Phys.* 37 (1965), 762-773. (R. Balescu) 32 #8912

On the kinetic equation nonlocal in time for the generalized self-diffusion process. *J. Computational Phys.* 7 (1971), 547-553. (W. F. Ames) 44 #6217

Stečkin, S. B.

Inequalities between norms of derivatives of arbitrary functions. (Russian) *Acta Sci. Math. (Szeged)* 26 (1965), 225-230. (J. Musielak) 32 #2534

(with Taĭkov, L. V.) On minimal extensions of linear functionals. (Russian) *Trudy Mat. Inst. Steklov.* 78 (1965), 12-23. (George Bikiuk) 33 #555

(with Ul′janov, P. L.) Subsequences of convergence of series. (Russian) *Trudy Mat. Inst. Steklov.* 86 (1965), 1-83. (S. Mandelbrojt) 34 #6422

* (with Ul′janov, P. L.) Sequences of convergence for series. Translated form the Russian by G. Piranian. Proceedings of the Steklov Institute of Mathematics, No. 86 (1965). *American Mathematical Society, Providence, R. I.*, 1967. v + 85 *pp.* (Editors) 35 #4661

(See also Proceedings of the Steklov Institute of Mathematics, No. 78 (1965), 35 #6501)

Best approximation of linear operators. (Russian) *Mat. Zametki* 1 (1967), 137-148. (P. C. Sikkema) 35 #2051

Distribution of zeros of polynomials. (Russian) *Mat. Zametki* 1 (1967), 425-434. (Z. Rubinstein) 35 #349

Inequalities between upper bounds of the derivatives of an arbitrary function on the half-line. (Russian) *Mat. Zametki* 1 (1967), 665-674. (I. N. Baker) 35 #5565

A remark on Jackson's theorem. (Russian) *Trudy Mat. Inst. Steklov.* 88 (1967), 17-19. (Ivan Singer) 36 #5593

(with Teljakovskiĭ, S. A.) The approximation of differentiable functions by trigonometric polynomials in the *L* metric. (Russian) *Trudy Mat. Inst. Steklov.* 88 (1967), 20-29. (Ivan Singer) 36 #5594

A simple proof of Čebyšev's prime number theorem. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 5 (143), 221-222. (A. Schinzel) 38 #1056

(See also Proceedings of the Steklov Institute of Mathematics, 40 #5380 and Bourbaki, N., 43 #450)

Certain extremal properties of positive trigonometric polynomials. (Russian) *Mat. Zametki* 7 (1970), 411-422. (Lowell Schoenfeld) 41 #8355

The zeros of the Riemann zeta-function. (Russian) *Mat. Zametki* 8 (1970), 419-429. (C. Tanaka) 43 #6168

(with Oskolkov, K. I.; Teljakovskiĭ, S. A.) Petr Vasil′evič Galkin. (Russian) *Mat. Zametki* 10 (1971), 597-600. (Editors) 44 #6436

Stečkina, E. I.

(See Bourbaki, N., 43 #450)

Stedry, A. C.

(with Charnes, A.) Search-theoretic models of organization control by budgeted multiple goals. *Management Sci.* 12 (1966), 457-482. 32 #7222

Steel, Robert G. D.

(with Rhyne, A. L., Jr.) Tables for a treatments versus control multiple comparisons sign test. *Technometrics* 7 (1965), 293-306. (Authors' summary) 32 #8467

(with Rhyne, A. L.) A multiple comparisons sign test: All pairs of treatments. (French summary) *Biometrics* 23 (1967), 539-549. (J. Kiefer) 35 #7526

Steel, T. R.

(with Atkin, R. J.; Chadwick, P.) Uniqueness theorems for linearized theories of interacting continua. *Mathematika* 14 (1967), 27-42. (W. D. Collins) 35 #6402

(with Knops, R. J.) Uniqueness in the linear theory of a mixture of two elastic solids. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 7 (1969), 571-577. (P. Germain) 40 #3775

Steele, C. R.

On the asymptotic solution of nonhomogeneous ordinary differential equations with a large parameter. *Quart. Appl. Math.* 23 (1965), 193-201. (F. W. J. Olver) 33 #376

Shells with edge loads of raped variation. II. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 87-98. (P. M. Naghdi) 31 #1815

Steen, Lynn A.

On uniform approximation by rational functions. *Proc. Amer. Math. Soc.* 17 (1966), 1007-1011. (Jaroslav Fuka) 33 #7561

* (with Seebach, J. Arthur, Jr.) Counterexamples in topology. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London*, 1970. xiii + 210 *pp.* (C. W. Patty) 42 #1040

(with Seebach, J. Arthur, Jr.; Seebach, Linda A.) What is a sheaf? *Amer. Math. Monthly* 77 (1970), 681-703. (Editors) 41 #7678

A direct proof that a linearly ordered space is hereditarily collectionwise normal. *Proc. Amer. Math. Soc.* 24 (1970), 727-728. (H. Herrlich) 41 #2634

Steen, N. M.

(with Byrne, G. D.; Gelbard, E. M.) Gaussian quadratures for the integrals $\int_0^\infty \exp(-x^2)f(x)dx$ and $\int_0^b \exp(-x^2)f(x)dx$. *Math. Comp.* 23 (1969), 661-671. 40 #1005

van der Steen, Pleun

On sequences of differential operators of infinite order with constant coefficients. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 620-628. (A. Stokes) 30 #1290

(with Kuipers, L.) Metric theorems in the theory of asymptotic distribution modulo 1. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 300-310. (J. Kubilius) 34 #5799

* On differential operators of infinite order. (Dutch summary) Doctoral dissertation, Technical University of Delft. *Technische Hogeschool te Delft, Delft*, 1968. 101 + 4 *loose pp.* (D. G. Dickson) 38 #1363

Steenrod, Norman E.

(with Rothenberg, M.) The cohomology of classifying spaces of *H*-spaces. *Bull. Amer. Math. Soc.* 71 (1965), 872-875. (A. Dold) 34 #8405

* (with Chinn, W. G.) First concepts of topology. The geometry of mappings of segments, curves, circles, and disks. New Mathematical Library, Vol. 18. *Random House, New York; The L. W. Singer Co., Syracuse, N. Y.*, 1966. viii + 160 *pp.* (M. Edelstein) 34 #6705

(See also, Cooke, George E.; Finney, Ross L., 36 2142 and Reviews of papers in algebraic and differential topology, topological groups, and homological algebra, Parts I, II, 38 #3853)

* (with Chinn, W. G.) Первые понятия топологии: Геометрия отображений отрезков, кривых, окружностей и кругов. (Russian) [First concepts of topology: The geometry of mappings of segments, curves, circles, and discs] Translated from the English by I. A. Vaĭnšteĭn. *Izdat. "Mir", Moscow*, 1967. 224 *pp.* (Editors) 37 #2161

A convenient category of topological spaces. *Michigan Math. J.* 14 (1967), 133-152. (Ronald Brown) 35 #970

(See also Reviews of papers in algebraic and differential topological groups, and homological algebra, Parts I, II, 38 #3853)

Milgram's classifying space of a topological group. *Topology* 7 (1968), 349-368. (R. J. Milgram) 38 #1675

* (with Chinn, W. G.) Topologie élémentaire. Géométrie des fonctions de segments, de courbes, de cercles et de disques. Traduit de l'anglasi par D. P. Lachat. *Dunod, Paris*, 1970. vi + 185 *pp.* (Editors) 41 #7606

(See also Whitehead, George E., 42 #5255 and Steenrod algebra and its applications, 42 #5256

Polynomial algebras over the algebra of cohomology operations. *H-Spaces (Actes Réunion Neuchâtel, 1970), pp.* 85-99. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin*, 1971. (W. D. Barcus) 44 #3316

Steer, Brian

(with Brown, Edgar H., Jr.) A note on Stiefel manifolds. *Amer. J. Math.* 87 (1965), 215-217. (M. A. Kervaire) 30 #5322; erratum, 31, p. 1336

(with Haefliger, A.) Symmetry of linking coefficients. *Comment. Math. Helv.* 39 (1965), 259-270. (W. R. Alford) 32 #1695

(with Boardman, J. M.) Axioms for Hopf invariants. *Bull. Amer. Math. Soc.* 72 (1966), 992-994. (I. M. James) 34 #2012

Une interprétation géométrique des nombres de Radon-Hurwitz. *Ann Inst. Fourier (Grenoble)* 17 (1967), *fasc.* 2, 209-218. (F. Hirzebruch) 37 #3590

(with Boardman, J. M.) On Hopf invariants. *Comment. Math. Helv.* 42 (1967), 180-221. (Jeol M. Cohen) 36 #4555

Note on the Hurewicz homomorphism in the space of homotopy equivalences of S^n preserving a base-point. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 245-248. (I. M. James) 37 #5871

(with Hilton, P. J.) On fibred categories and cohomology. *Topology* 8 (1969), 243-251. (Larry Smith) 39 #5663

On the embedding of projective spaces in Euclidean space. *Proc. London Math. Soc.* (3) 21 (1970), 489-501. (L. S. Husch) 44 #3311

On immersing complex projective $(4k + 3)$-space in Euclidean space. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 339-345. (J. Eells) 44 #7574

Štefan, Peter

On the proof of a theorem of V. G. Boltianskij. (Loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 341-345. (L. D. Berkovitz) 41 #900

Ştefănescu, A.

Strategic games. (Romanian) *Gaz. Mat. Ser. A* 74 (1969), 460-471; *ibid.* 75 (1970), 17-29. (M. Iosifescu) 41 #1397

Stefani, V. N.

The equation $x^3 + 6xyz + y^3 - mz^3 = 0$, and certain other equations related to it. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 42 (1967), 60-84. (J. B. Roberts) 37 #1314

Stefani, Waldemar

Über eine Klasse von Polynomen und ihre Beziehungen zu den Bernoullischen Zahlen. *Math. Nachr.* 29 (1965), 131-149. (L. Carlitz) 32 #2371

Über eine Klasse von Polynomen und ihre Beziehungen zu den Bernoullischen Zahlen. II. *Math. Nachr.* 36 (1968), 15-37. (L. Carlitz) 37 #3997

Stefaniak, J.
A certain application of generalized functions in continuum mechanics. (Polish. English and Russian summaries) *Fasc. Math. No.* 4 (1969), 91-95 (1970). (J. Ignaczak) 41 #7901

Stefanov, Ivan
* (with Boneva, Liliana I.; Kendall, David) Spline transformations: Three new diagonostic aids for the statistical data-analyst. With discussions by H. E. Daniels, R. M. Loynes, M. S. Bartlett, E. S. Pearson, P. D. M. Macdonald, M. J. Fryer, M. A. Stephens, K. V. Mardia, A. J. Mayne, J. B. Parker, G. A. Barnard, D. Clayton, I. J. Good, J. F. C. Kingman, E. Nadaraya, E. Parzen, M. B. Priestley, J. W. Tukey and M. C. K. Tweedie. *J. Roy. Statist. Soc. Ser. B* 33 (1971), 1-70. (I. Guttman) 44 #6083

Stefansky, Wilhelmine
A necessary and sufficient condition that for regular multiple decision problems of type I every unbiased procedure has minimax risk. *Ann. Math. Statist.* 41 (1970), 736-738. 40 #6680

Stefánsson, Jón R.
On a problem of J. Diximer concerning idelas in a von Neumann algebra. *Math. Scand.* 24 (1969), 111-112. (B. J. Vowden) 40 #7829

Steffen, M. R.
(with Dent, Warren) Construction of redundant networks with minimum distance. *J. Franklin Inst.* 289 (1970), 223-231. (G. Berman) 42 #9089

Steffens, F. E.
On comparing two simple linear regression lines. *South African Statist. J.* 2 (1968), 33-53. (Author's summary) 41 #4741
(with Laubscher, Nico F.; De Lange, Elsie M.) Exact critical values for Mood's distribution-free test statistic for dispersion and its normal approximation. *Technometrics* 10 (1968), 497-507. 38 #839

Steffensen, Per Amdal
(See Seminar, D. E., 40 #434)

Stegall, C. P.
(with Retherford, J. R.) Fully nuclear operators. *Bull. Amer. Math. Soc.* 76 (1970), 1077-1081. (J. Lindenstrauss) 42 #6588
Operator characterizations of $\mathcal{L}_1$ and $\mathcal{L}_\infty$ spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 73-75. (E. R. Deal) 43 #7915

Stegeman, Jan Derk
On a property concerning locally compact groups. *Nederl. Akad. Wetensch. Proc. Ser A* 68 *= Indag. Math.* 27 (1965), 702-703. (I. Glicksberg) 33 #3115
On a theorem of N. Th. Varopoulos. *Math. Scand.* 27 (1970), 50-52. (R. E. Edwards) 42 #8185
On unions of Helson sets. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 *= Indag. Math.* 32 (1970), 456-462. (C. F. Dunkl) 43 #7867
* Studies in Fourier and tensor algebras. (Dutch summary) Doctoral dissertation, University of Utrecht. *Rijkuniversiteit te Utrecht, Utrecht,* 1971. vii + 108 *pp.* (Y. Domar) 42 #8308

Steger, Arthur
Elementary factorization in π-regular rings. *Canad. J. Math.* 18 (1966), 307-313. (E. H. Batho) 33 #138
Diagonability of idempotent matrices. *Pacific J. Math.* 19 (1966), 535-542. (W. E. Jenner) 34 #2614
(with DeMarr, Ralph) On elements with negative squares. *Proc. Amer. Math. Soc.* 31 (1972), 57-60. (L. Fuchs) 44 #6581

Stegmüller, Wolfgang
Remarks on the completeness of logical systems relative to the validity-concepts of P. Lorenzen and K. Lorenz. *Notre Dame J. Formal Logic* 5 (1964), 81-112. (P. Lorenzen) 31 #60
Die Äquivalenz des klassischen und intuitionistischen Ableitungsbegriffs im Gentzen-Quine-Kalkül und in Kleenes Kalkül *H*. *Arch. Math. Logik Grundlagenforsch.* 8, 3-27 (1965). (D. Nelson) 31 #4715
Eine modelltheoretische Präzisierung der Wittgensteinschen Bildtheorie. *Notre Dame J. Formal Logic* 7 (1966), 181-195. 35 #1459
Das Wahrheitsproblem und die Idee der Semantik. Eine Einführung in die Theorien von A. Tarski und R. Carnap. Zweite, unveränderte Auflage. *Springer-Verlag, Vienna-New York,* 1968. x + 328 *pp.* (Editors) 37 #1239

Stegun, Irene A.
(See Handbook of mathematical functions, 31 #1400; Handbook of mathematical functions with formulas, graphs, and mathematical tables, 29 #4914, 34 #8606, 34 #8607 and Fettis, Henry E., 41 #2874)

Stehle, Philip
A causality condition for Schrödinger scattering. *Physica* 30 (1964), 1072-1076. (R. F. Streater) 31 #4377

(with Han, M. Y.) SU_2 as a classical invariance group. (Italian and Russian summaries) *Nuovo Cimento A* (10) 48 (1967), 180-187. (Authors' summary) 34 #8764

Steigenberger, Joachim
On separation of variables in mechanical systems. (French and German summaries) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 49 (1963), 990-1014. (Author's summary) 29 #755
Vollständige Integrale Hamilton-Jacobischer Differentialgleichungen vom verallgemeinerten Stäckelschen Typ. *Wiss. Z. Techn. Hochsch. Ilmenau* 11 (1965), 169-172. (F. J. Heyda) 33 #443
Neue Separierbarkeitsbedingungen für die Laplacegleichung in Riemannschen Räumen. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 371-372. (S. Dümmel) 43 #725
Separation der Variablen in homogen-linearen partiellen Differentialgleichungen erster Ordnung. *Wiss. Z. Techn. Bochsch. Ilmenau* 16 (1970), *Heft* 2/3, 213-220. (A. Gohman (RŽMat 1970 #12 B385)) 44 #5634

Steiger, Martin H.
(with Fox, Herbert) Some mass transfer effects on the wall jet. *J. Fluid Mech.* 15 (1963), 597-609. (W. Wuest (Zbl 113, 414)) 32 #5038

Steiger, W. L.
Some Kolmogoroff-type inequalities for bounded random variables. *Biometrika* 54 (1967), 641-647; *ibid.* 55 (1968), 443. (W. Hoeffding) 36 #4613 (E)
Correction to: "Some Kolmogoroff-type inequalities for bounded random variables". *Biometrika* 55 (1968), 443. (Editors) 38 #750
A best possible Kolmogoroff-type inequality for martingales and a characteristic property. *Ann. Math. Statist.* 40 (1969), 764-769. (T. Hida) 39 #2188
A probability inequality. *Panjab Univ. J. Math. (Lahore)* 2 (1969), 39-41. (S. G. Mohanty) 40 #6621
Bernstein's inequality for martingales. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 104-106. (H. H. Stratton) 43 #5595

Steigerwalt, M. S.
(with White, A. J.) Some function spaces related to L_p spaces. *Proc. London Math. Soc.* (3) 22 (1971), 137-163. (R. A. Hunt) 43 #5304

Steiglitz, Kenneth
Rational transform approximation via the Laguerre spectrum. *J. Franklin Inst.* 280 (1965), 387-394. (A. E. Danese) 32 #2825
(with Bernstein, A. J.) Optimal binary coding of ordered numbers. *J. Soc. Indust. Appl. Math.* 13 (1965), 441-443. (W. W. Peterson) 31 #5727
(with McBride, L. E., Jr.; Schaefgen, H. W.) Time-domain approximation by iterative methods. *IEEE Trans. Circuit Theory* CT-13 (1966), 381-387. (Authors' summary) 39 #6483
(with Masry, Elias; Liu, Bede) Series expansion of wide-sense stationary random processes. *IEEE Trans. Information Theory* IT-14 (1968), 792-796. (G. K. Eagleson) 38 #6660
(with Masry, E.; Liu, B.) Bases in Hilbert space related to the representation of stationary operators. *SIAM J. Appl. Math.* 16 (1968), 552-562. (H. R. Pousson) 38 #2584
(with Bruno, John; Weinberg, Louis) A new planarity test based on 3-connectivity. *IEEE Trans. Circuit Theory* CT-17 (1970), 197-206. (Authors' summary) 41 #6719
(with Weiner, Peter; Kleitman, D. J.) The design of minimum-cost survivable networks. *IEEE Trans. Circuit Theory* CT-16 (1969), 455-460. (From the authors' summary) 40 #5347

Stein, Charles M.
Inadmissibility of the usual estimator for the variance of a normal distribution with unknown mean. *Ann. Inst. Statist. Math.* 16 (1964), 155-160. (J. Kiefer) 30 #1575
Approximation of improper prior measures by prior probability measures. *Proc. Internat. Res. Sem., Statist. Lab., Univ. California, Berkeley, Calif.,* 1963, *pp.* 217-240. *Springer-Verlag, New York,* 1965. (J. Kiefer) 33 #8077
An approach to the recovery of inter-block information in balanced incomplete block designs. *Research Papers in Statistics (Festschrift J. Neyman), pp.* 351-366. *John Wiley, London,* 1966. (D. V. Lindley) 35 #1126
Some recent developments in mathematical statistics. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 140-157. *Izdat. "Mir", Moscow,* 1968. (From the author's introduction) 38 #1766
(with Portnoy, Stephen) Inadmissibility of the best invariant test in three or more dimensions. *Ann. Math. Statist.* 42 (1971), 799-801. 44 #3425

Stein, Elias M.
(with Kunze, R. A.) Uniformly bounded representations and harmonic analysis of the 2 × 2 real unimodular group. *Amer. J. Math.* 82 (1960), 1-62. (Edwin Hewitt) 29 #1287
On the theory of harmonic functions of several variables. II. Behavior near the boundary. *Acta Math.* 106 (1961), 137-174. (L. Lumer-Naïm) 30 #3234

(with Kunze, R. A.) Uniformly bounded representations. II. Analytic continuation of the principal series of representations of the $n \times n$ complex unimodular group. *Amer. J. Math.* 83 (1961), 723-786. (Edwin Hewitt) 29 #1288

Conjugate harmonic functions in several variables. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 414-420. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #373

(with Weiss, Guido; Weiss, Mary) H^p classes of holomorphic functions in tube domains. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1035-1039. (J. Mitchell) 31 #3634

A survey of representations of non-compact groups. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste,* 1965*), pp.* 563-584. *International Atomic Energy Agency, Vienna,* 1965. (R. Keown) 34 #5984

Note on the boundary values of holomorphic functions. *Ann. of Math.* (2) 82 (1965), 351-353. (A. Korányi) 32 #5923

(with Wainger, S.) Analytic properties of expansions, and some variants of Parseval-Plancherel formulas. *Ark. Mat.* 5, 553-567 (1965). (M. Gasymov (RŽMat 1967 #1 B49)) 36 #602

(with Zygmund, A.) On the fractional differentiability of functions. *Proc. London Math. Soc.* (3) 14a (1965), 249-264. (S. Marcus) 31 #1340

(with Muckenhoupt, B.) Classical expansions and their relation to conjugate harmonic functions. *Trans. Amer. Math. Soc.* 118 (1965), 17-92. (I. I. Hirschman, Jr.) 33 #7779

Classes H^p, multiplicateurs et fonctions de Littlewood-Paley. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A716-A719. (D. Trutt) 37 #695a

Classes H^p, multiplicateurs et fonctions de Littlewood-Paley. Applications de résultats antérieurs. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A780-A781. (D. Trutt) 37 #695b

(with Kunze, R. A.) Uniformly bounded representations. III. Intertwining operators for the principal series on semisimple groups. *Amer. J. Math.* 89 (1967), 385-442. (Edwin Hewitt) 38 #269

(with Zygmund, A.) Boundedness of translation invariant operators on Hölder spaces and L^p-spaces. *Ann. of Math.* (2) 85 (1967), 337-349. (G. Geymonat) 35 #5964

Analysis in matrix spaces and some new representations of SL(N,C). *Ann. of Math.* (2) 86 (1967), 461-490. (R. G. Laha) 36 #2749

Classes H^p et multiplicateurs: Cas n-dimensionnel. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A107-A108. (D. Trutt) 37 #695c

(with Zygmund, A.) On the boundary behavior of harmonic functions. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill.,* 1967*), pp.* 127-141. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (Ü. Kuran) 38 #2322

The analogues of Fatou's theorem and estimates for maximal functions. *Geometry of Homogeneous Bounded Domains (C.I.M.E., 3° Ciclo, Urbino,* 1967*), pp.* 291-307. *Edizioni Cremonese, Rome,* 1968. (J. Kajiwara) 38 #3466

(with Weiss, Guido) Generalization of the Cauchy-Riemann equations and representations of the rotation group. *Amer. J. Math.* 90 (1968), 163-196. (H. Jacquet) 36 #6540

(with Grossmann, A.; Loupias, G.) An algebra of pseudo-differential operators and quantum mechanics in phase space. (French summary) *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 343-368, viii (1969). (Authors' review (Zbl 176, 451)) 42 #2327

(with Korányi, A.) Fatou's theorem for generalized half-planes. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 107-112. (Ü. Kuran) 43 #5045

(with Weiss, N. J.) Convergence of Poisson integrals for bounded symmetric domains. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1160-1162. (A. Korányi) 37 #5422

(with Knapp, A. W.) Singular integrals and the principal series. I, II. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 281-284; *ibid.* 66 (1970), 13-17. (G. Warner) 41 #8588

Note on the class L log L. *Studia Math.* 32 (1969), 305-310. (J. L. Griffith) 40 #799

(with Weiss, N. J.) On the convergence of Poisson integrals. *Trans. Amer. Math. Soc.* 140 (1969), 35-54. (A. Korányi) 39 #3024

* Topics in harmonic analysis related to the Littlewood-Paley theory. Annals of Mathematics Studies, No. 63. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo,* 1970. viii + 146 *pp.* (R. E. Edwards) 40 #6176

Variations on the Littlewood-Paley theme. *Lectures in Modern Analysis and Applications, III, pp.* 1-17. *Lecture Notes in Mathematics, Vol.* 170. *Springer, Berlin,* 1970. (Editors) 42 #4962

* Singular integrals and differentiability properties of functions. Princeton Mathematical Series, No. 30. *Princeton University Press, Princeton, N. J.,* 1970. xiv + 290 *pp.* (R. E. Edwards) 44 #7280

Analytic continuation of group representations. *Advances in Math.* 4, 172-207 (1970). (K. Bichteler) 41 #8584

Boundary values of holomorphic functions. *Bull. Amer. Math. Soc.* 76 (1970), 1292-1296. (M. Hervé) 42 #7936

(with Wainger, Stephen) The estimation of an integral arising in multiplier transformations. *Studia Math.* 35 (1970), 101-104. (S. Izumi) 42 #904

(with Fefferman, C.) Some maximal inequalities. *Amer. J. Math.* 93 (1971), 107-115. (R. A. Hunt) 44 #2026

L^p boundedness of certain convolution operators. *Bull. Amer. Math. Soc.* 77 (1971), 404-405. (R. Larsen) 43 #2497

Stein, Erwin Walter

(with Retkin, H.) On the symmetric (15;3)-arcs of the finite projective plane of order 7. *Rend. Mat. e Appl.* (5) 24 (1965), 392-399. (D. A. Foulser) 35 #4811

Stein, F. Max

(with Tollefson, J. L.) Solutions of certain nonlinear differential equations by a separation of variables. *Amer. Math. Monthly* 73 (1966), *no.* 4, *part II,* 128-130. (J. A. Morrison) 33 #2847

A note on families of singular Sturn-Liouville systems. *Portugal. Math.* 25 (1966), 91-98. (W. Sangren) 35 #447

(with Huffstutler, R. G.) The approximate solution of Riccati's equation. *SIAM J. Numer. Anal.* 3 (1966), 425-434. (M. G. Scherberg) 34 #2154

(with Henry, M. S.; Huffstutler, R. G.) A generalization of Gegenbauer and Laguerre polynomials. *Portugal. Math.* 26 (1967), 333-342. (R. C. Varma) 41 #531

(with Huffstutler, R. G.) The best approximate solution of the extended Riccati equation using the L_q norm. *Rend. Circ. Mat. Palermo* (2) 16 (1967), 373-381. (S. L. Kalla) 40 #8271

(with Klopfenstein, Kenneth F.) Approximate solutions of a system of differential equations. *J. Approximation Theory* 1 (1968), 279-292. (G. N. Lance) 38 #5401

(with Huffstutler, R. G.) The approximate solution of $y' = F(x,y)$. *Pacific J. Math.* 24 (1968), 283-289. (A. R. Gourlay) 36 #7334

(with Huffstutler, R. G.) The approximate solution of certain nonlinear differential equations. *Proc. Amer. Math. Soc.* 19 (1968), 998-1002. (C. C. Conley) 37 #4476

(with Henry, M. S.) An L_q approximate solution of the Riccati matrix equation. *J. Approximation Theory* 2 (1969), 237-240. (J. S. Bradley) 39 #5846

(with Kieffer, John C.) Solution of an equation in a linear algebra by means of the minimal polynomial. *Math. Mag.* 42 (1969), 114-121. (J. E. Whitesitt) 39 #2787

(with Haaheim, D. Robert) Methods of solution of the Riccati differential equation. *Math. Mag.* 42 (1969), 233-240. (J. S. W. Wong) 40 #7509

(with Henry, M. S.) An approximate solution of the Riccati matrix equation. *Proc. Amer. Math. Soc.* 25 (1970), 8-12. (K. R. Unni) 41 #5684

Stein, G.

(with Saridis, G. N.) A parameter-adaptive control technique. (French, German and Russian summaries) *Automatica—J. IFAC* 5 (1969), 731-739. (D. D. Sworder) 42 #4298

Stein, George H.

Entropy and density. *Proc. Amer. Math. Soc.* 28 (1971), 505-508. (U. Sachdeva) 43 #6401

Stein, James D., Jr.

Homomorphisms of semi-simple algebras. *Pacific J. Math.* 26 (1968), 589-594. (M. Rosenfeld) 39 #1979

Continuity of homomorphisms of von Neumann algebras. *Amer. J. Math.* 91 (1969), 153-159. (B. E. Johnson) 39 #6095

On generalized complete metric spaces. *Bull. Amer. Math. Soc.* 75 (1969), 439-440. (D. R. Traylor) 39 #944

Functions satisfying Lipschitz conditions. *Michigan Math. J.* 16 (1969), 385-396. (D. R. Wilken) 40 #2796

Homomorphisms of B^*-algebras. *Pacific J. Math.* 28 (1969), 431-439. (Z. Takeda) 39 #4687

Hereditary and recurrent properties in lattices. *J. Combinatorial Theory* 9 (1970), 103-107. (R. P. Sullivan) 44 #2674

Several theorems on boundedness and equicontinuity. *Proc. Amer. Math. Soc.* 26 (1970), 415-419. (B. Fishel) 42 #5017

Uniform boundedness in metric spaces. *Proc. Amer. Math. Soc.* 32 (1972), 299-303. (L. M. Kelly) 44 #7528

Stein, Karl

Maximale holomorphe und meromorphe Abbildungen. II. *Amer. J. Math.* 86 (1964), 823-868. (W. Stoll) 30 #1262

On factorization of holomorphic mappings. *Proc. Conf. Complex Analysis (Minneapolis,* 1964*), pp.* 1-7. *Springer, Berlin,* 1965. (H. Cartan) 31 #2419

Über die Äquivalenz meromorpher und rationaler Funktionen. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1966, *Abt. II,* 87-99 (1967). (K. Peters) 36 #2827

(See also Topics in several complex variables, 39 #3021)

Meromorphic mappings. *Enseignement Math.* (2) 14 (1968), 29-46. (R. C. Gunning) 39 #4448

Fortsetzung holomorpher Korrespondenzen. *Invent. Math.* 6 (1968), 78-90. (E. Gottschling) 38 #1286

Šteĭn, M. E.

Design of combinational logical devices. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 4, 70-76 *(Russian); translated as Engrg. Cybernetics* 1965, *no.* 4, 68-74. (E. L. Lawler) 35 #5258

Stein, M. L.

(with Stein, P. R.) New experimental results on the Goldbach conjecture. *Math. Mag.* 38 (1965), 72-80. (L. K. Durst) 32 #4109

(with Metropolis, N.; Stein, P. R.) Stable states of a non-linear transformation. *Numer. Math.* 10 (1967), 1-19. (S. M. Ulam) 37 #7068

(with Metropolis, N.; Stein, P. R.) Permanents of cyclic (0,1) matrices. *J. Combinatorial Theory* 7 (1969), 291-321. (B. R. Heap) 40 #4141

Stein, Marvin L.

* (with Munro, William D.) Computer programming: A mixed language approach. *Academic Press, New York-London,* 1964. xiv + 459 *pp.* (E. K. Blum) 29 #6665

Stein, Michael R.

Relativizing functors on rings and algebraic *K*-theory. *J. Algebra* 19 (1971), 140-152. (J.-P. Jouanolou) 44 #288

Stein, Norman

Note on the realization of Whitehead products. *Quart. J. Math. Oxford Ser.* (2) 17 (1966), 160-164. (J.-P. Meyer) 33 #4932

Stein, Paul R.

(with Gardiner, V. L.; Lazarus, R. B.) Solutions of the diophantine equation $x^3 + y^3 = z^3 - d$. *Math. Comp.* 18 (1964), 408-413. (J. C. P. Miller) 31 #119

(with Ulam, S. M.) Non-linear transformation studies on electronic computers. *Rozprawy Mat.* 39 (1964), 66 *pp.* (R. W. Hamming) 29 #6666

(with Stein, M. L.) New experimental results on the Goldbach conjecture. *Math. Mag.* 38 (1965), 72-80. (L. K. Durst) 32 #4109

(with Metropolis, N.) On a class of (0,1) matrices with vanishing determinants. *J. Combinatorial Theory* 3 (1967), 191-198. (D. A. Klarner) 35 #2764

(with Metropolis, N.; Stein, M. L.) Stable states of a non-linear transformation. *Numer. Math.* 10 (1967), 1-19. (S. M. Ulam) 37 #7068

(with Metropolis, N.; Stein, M. L.) Permanents of cyclic (0,1) matrices. *J. Combinatorial Theory* 7 (1969), 291-321. (B. R. Heap) 40 #4141

(with Everett, C. J.) On random sequences of integers. *Bull. Amer. Math. Soc.* 76 (1970), 349-351. (H. Kesten) 40 #4233

(with Metropolis, N.) An elementary solution to a problem in restricted partitions. *J. Combinatorial Theory* 9 (1970), 365-376. (G. F. Clements) 42 #2950

(with Riordan, John) Arrangements on chessboards. *J. Combinatorial Theory Ser. A* 12 (1972), 72-80. (R. C. Mullin) 44 #2625

Stein, Philip

On the ranges of two functions of positive definite matrices. *J. Algebra* 2 (1965), 350-353. (J. K. Goldhaber) 32 #7569

(with Pfeffer, Allen) On the ranges of two functions of positive definite matrices. II. *ICC Bull.* 6 (1967), 81-86. (R. C. Thompson) 36 #3805

A proof of a classical theorem in multiple integration. *Amer. Math. Monthly* 75 (1968), 160-163. (S. C. Mitra) 37 #2924

Stein, Sherman K.

(with Chakerian, G. D.) On the symmetry of convex bodies. *Bull. Amer. Math. Soc.* 70 (1964), 594-595. (B. Grünbaum) 29 #517

(with Chakerian, G. D.) On the centroid of a homogeneous wire. *Michigan Math. J.* 11 (1964), 189-192. (T. A. Botts) 29 #1579

Homogeneous quasigroups. *Pacific J. Math.* 14 (1964), 1091-1102. (M. Hosszú) 30 #1206

(with Chakerian, G. D.) On measures of symmetry of convex bodies. *Canad. J. Math.* 17 (1965), 497-504. (K. Mahler) 31 #1612

(with Chakerian, G. D.) Bisected chords of a convex body. *Arch. Math. (Basel)* 17 (1966), 561-565. (G. Ewald) 34 #6635

The functional equation $f(a + b,b) = f(a,a + b)$. *Amer. Math. Monthly* 74 (1967), 1227-1228. (M. N. Oğuztöreli) 36 #5552

Factoring by subsets. *Pacific J. Math.* 22 (1967), 523-541. (N. G. de Bruijn) 36 #2517

(with Chakerian, G. D.) Some intersection properties of convex bodies. *Proc. Amer. Math. Soc.* 18 (1967), 109-112. (G. Ewald) 34 #6634

Higher moments of plane convex sets. *Elem. Math.* 23 (1968), 108-110. (D. G. Larman) 38 #5113

Large exclusive families. *Israel J. Math.* 6 (1968), 26-29. (Donald W. Miller) 38 #5972

Averages over a pair of convex surfaces. *Michigan Math. J.* 15 (1968), 377-380. (D. G. Larman) 38 #1611

B-sets and coloring problems. *Bull. Amer. Math. Soc.* 76 (1970), 805-806. (H. V. Kronk) 41 #5244

(with Barnette, David W.) On a theorem of Tutte, a 4-color theorem and *B*-sets. *Recent Trends in Graph Theory (Proc. Conf., New York,* 1970*), pp.* 9-14. *Lecture Notes in Mathematics, Vol.* 186. *Springer, Berlin,* 1971. (L. W. Johnson) 43 #4718

Šteĭnberg, A. S.

On a modification of the method of balanced descent for the problem of the generalized Chebyshev minimax. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1963, 318-321. 29 #1727

Certain questions relating to the theory and practice of mean power approximation. (Russian) *Mathematica (Cluj)* 5(28) (1963), 279-297. (M. Tomić) 31 #2551

A vector analogue of the algorithm of ε-polynomials of Charnes. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 1133-1136. (Author's summary) 32 #5375

(with Remez, E. Ja.) On a theorem on convex polyhedra in connection with the question of finding the totality of solutions of systems of linear inequalities. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 2, 74-89. (W. J. Firey) 35 #3543

(with Remez, E. Ja.) Determination of optimal solutions of a linear programming problem. *Dokl. Akad. Nauk SSSR* 181 (1968), 550-553 *(Russian); translated as Soviet Math. Dokl.* 9 (1968), 887-890. (P. L. Hammer) 38 #5466

Steinberg, Arthur

On free nilpotent quotient groups. *Math. Z.* 85 (1964), 185-196. (S. Lipschutz) 33 #176

On equations in free groups. *Michigan Math. J.* 18 (1971), 87-95. (Martin Ward) 44 #6802

Steinberg, David I.

* (with Cooper, Leon) Introduction to methods of optimization. *W. B. Saunders Co., Philadelphia, Pa.-London-Toronto, Ont.,* 1970. vii + 381 *pp.* (W. Dück (Zbl 208, 214)) 44 #3471

The fixed charge problem. *Naval Res. Logist. Quart.* 17 (1970), 217-235. (J. Stoer) 42 #1517

Steinberg, Jacob

(with Mendel, David) Biorthonormal systems in vector spaces. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 15-20. (A. Magnus) 38 #1496

(with Rakotch, E.) Error estimate for the numerical solution of Fredholm's integral equation. *Numer. Math.* 15 (1970), 320-328. (G. F. Miller) 44 #2375

Steinberg, Leon

(with Krishnaiah, P. R.; Hagis, Peter, Jr.) Tests for the equality of standard deviations in a bivariate normal population. (Spanish summary) *Trabajos Estadíst.* 16 (1965), *cuad.* 1, 3-6. (H. L. Harter) 31 #6314

Steinberg, Robert

A closure property of sets of vectors. *Trans. Amer. Math. Soc.* 105 (1962), 118-125. (C. Y. Chao) 29 #2331

Differential equations invariant under finite reflection groups. *Trans. Amer. Math. Soc.* 112 (1964), 392-400. (J. A. Todd) 29 #4807

Regular elements of semisimple algebraic groups. *Inst. Hautes Études Sci. Publ. Math. No.* 25 (1965), 49-80. (J. L. Koszul) 31 #4788

* Endomorphisms of linear algebraic groups. Memoirs of the American Mathematical Society, No. 80. *American Mathematical Society, Providence, R. I.,* 1968. 108 *pp.* (E. Abe) 37 #6288

Classes of elements of semisimple algebraic groups. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 277-284. *Izdat. "Mir", Moscow,* 1968. (A. Evyatar (Gutwirth)) 39 #216

Algebraic groups and finite groups. *Illinois J. Math.* 13 (1969), 81-86. (E. J. Taft) 38 #2207

(with Springer, T. A.) Conjugacy classes. *Seminar on Algebraic Groups and Related Finite Groups (The Institute for Advanced Study, Princeton, N. J.,* 1968/69*), pp.* 167-266. *Lecture Notes in Mathematics, Vol.* 131. *Springer, Berlin,* 1970. (N. Burgoyne) 42 #3091

Steinberg, Stanly

Meromorphic families of compact operators. *Arch. Rational Mech. Anal.* 31 (1968/69), 372-379. (S. Kantorovitz) 38 #1562

On the poles of the scattering operator for the Schroedinger equation. *Arch. Rational Mech. Anal.* 38 (1970), 278-289. (Teruo Ikebe) 42 #704

(with Miller, Marvin) Applications of hyperdifferential operators to quantum mechanics. *Comm. Math. Phys.* 24 (1971/72), 40-60. (Authors' summary) 44 #5040

The Cauchy problem for differential equations of infinite order. *J. Differential Equations* 9 (1971), 591-607. (W. Watzlawek) 43 #689

Steinberg, Stuart A.

An embedding theorem for commutative lattice-ordered domains. *Proc. Amer. Math. Soc.* 31 (1972), 409-416. (C. F. Moppert) 44 #2682

Steinbrunn, Klaus

Über das Verhalten stationärer elektromagnetischer Wellenfelder für kleine Frequenzen. *J. Math. Anal. Appl.* 27 (1969), 127-163. (J. Van Bladel) 39 #5097

Steinbuch, Karl

* Automat und Mensch. Kybernetische Tatsachen und Hypothesen. Zweite erwerterte Auflage. *Springer-Verlag, Berlin-Göttingen-Heidelberg,* 1963. xii + 392 *pp.* (Editors) 29 #6993

* Automat und Mensch. Kybernetische Tatsachen und Hypothesen. Dritte neubearbeitete und erweiterte Auflage. *Springer-Verlag, Berlin-Heidelberg-New York,* 1965. xii + 454 *pp.* (Editors) 31 #3236

Steinby, Magnus

On definite automata and related systems. *Ann. Acad. Sci. Fenn. Ser. A I No.* 44 (1969), 57 *pp.* (J. Hartmanis) 41 #3188

von den Steinen, Jürgen

Zur Kennzeichnung der Euklidischen Norm vermöge einiger Eigenschaften der komplexen Projektionalorthogonalität. *Math. Ann.* 154 (1964), 166-170. (B. Yood) 30 #436

Über Ausdenhnungen von Derivationen. *Math. Z.* 92 (1966), 234-255. (C. F. Moppert) 33 #1327

Homomorphismen bei Algebren mit mehrdeutigen Operationen. *Math. Z.* 99 (1967), 182-192. (O. Wyler) 35 #4144

Steiner, A. K.

The topological complementation problem. *Bull. Amer. Math. Soc.* 72 (1966), 125-127. (J. G. Horne) 32 #1667

Complementation in the lattice of T_1-topologies. *Proc. Amer. Math. Soc.* 17 (1966), 884-886. (R. W. Bagley) 33 #1255

The lattice of topologies: Structure and complementation. *Trans. Amer. Math. Soc.* 122 (1966), 379-398. (R. W. Bagley) 32 #8303

(with Steiner, E. F.) Topologies with T_1-complements. *Fund. Math.* 61 (1967), 23-28. (H. Tong) 37 #5840

(with Steiner, E. F.) The natural topology on the space A^B. *(J. Math. Anal. Appl.* 19 (1967), 174-178. (A. H. Kruse) 35 #4878

(with Steiner, E. F.) Wallman and Z-compactifications. *Duke Math. J.* 35 (1968), 269-275. (S. A. Naimpally) 37 #3526

(with Steiner, E. F.) Compactifications as closures of graphs. *Fund. Math.* 63 (1968), 221-223. (J. W. Rogers, Jr.) 38 #6546

(with Steiner, E. F.) Precompact uniformities and Wallman compactifications. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 117-118. (D. V. Thampuran) 37 #3525

(with Steiner, E. F.) Products of compact metric spaces are regular Wallman. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 428-430. (O. Frink) 40 #867

(with Steiner, E. F.) A T_1-complement for the reals. *Proc. Amer. Math. Soc.* 19 (1968), 177-179. (A. H. Kruse) 37 #6897

(with Steiner, E. F.) On countable multiple point compactifications. *Fund. Math.* 65 (1969), 133-137. (W. J. Pervin) 40 #868

On the relation between continuous and connected functions. *Colloq. Math.* 21 (1970), 91-93. (B. J. Ball) 41 #9224

(with Steiner, E. F.) Graph closures and metric compactifications of *N*. *Proc. Amer. Math. Soc.* 25 (1970), 593-597. (W. W. Comfort) 41 #9206

(with Steiner, E. F.) Nest generated intersection rings in Tychonoff spaces. *Trans. Amer. Math. Soc.* 148 (1970), 589-601. (R. F. Dickman, Jr.) 41 #7637

On the topological completion of *M*-space products. *Proc. Amer. Math. Soc.* 29 (1971), 617-620. (R. Bennett) 43 #8051

Steiner, Antonio

Randwertabschnitte einer Klasse analytischer Funktionen. I, II. *Ann. Acad. Sci. Fenn. Ser. A I No.* 356 (1965), 19 *pp. ibid. No.* 357 (1965), 14 *pp.* (W. Schneider) 32 #2597

Eine Verallgemeinerung des Satzes von Paley und Wiener. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 336-339. *Izdat. "Nauka", Moscow,* 1966. (R. B. Burckel) 34 #6440

Die einseitig unendliche Fouriertransformation und zwei Klassen quasianalytischer Funktionen. *Festband* 70. *Geburtstag R. Nevanlinna, pp.* 89-104. *Springer, Berlin,* 1966. (J. Blackman) 34 #8086

Zum Mechanismus der Quasianalytizität gewisser Randfunktionen auf endlichen Intervallen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 459 (1970), 33 *pp.* (J. A. Cima) 41 #8681

Ein Beweis des Satzes von Paley und Wiener. *Math. Z.* 114 (1970), 213-216. (J. A. Cima) 41 #3779

Steiner, Eugene F.

The relation between quasi-proximities and topological spaces. *Math. Ann.* 155 (1964), 194-195. (P. C. Baayen) 29 #581

Lattices of linear topologies. *Portugal. Math.* 23 (1964), 173-181. (H. Nakano) 32 #4650

On finite dimensional linear topological spaces. *Amer. Math. Monthly* 72 (1965), 34-35. (J. C. Bradford) 30 #1386

Lattices of normed topologies. *Protugal. Math.* 24 (1965), 7-12. (H. Nakano) 34 #592

Normal families and completely regular spaces. *Duke Math. J.* 33 (1966), 743-745. (O. Frink) 33 #7975

Comparison of normed topologies. *Math. Student* 34 (1966), 57-62 (1967). (A. Kleppner) 36 #4324

(with Steiner, A. K.) Topologies with T_1-complements. *Fund. Math.* 61 (1967), 23-28. (H. Tong) 37 #5840

Wallman spaces and compactifications. *Fund. Math.* 61 (1967/68), 295-304. (S. A. Naimpally) 36 #5899

(with Steiner, A. K.) The natural topology on the space A^B. *J. Math. Anal. Appl.* 19 (1967), 174-178. (A. H. Kruse) 35 #4878

(with Steiner, A. K.) Wallman and Z-compactifications. *Duke Math. J.* 35 (1968), 269-275. (S. A. Naimpally) 37 #3526

(with Steiner, A. K.) Compactifications as closures of graphs. *Fund. Math.* 63 (1968), 221-223. (J. W. Rogers, Jr.) 38 #6546

(with Steiner, A. K.) Precompact uniformities and Wallman compactifications. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 117-118. (D. V. Thampuran) 37 #3525

(with Steiner, A. K.) Products of compact metric spaces are regular Wallman. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 428-430. (O. Frink) 40 #867

(with Belluce, L. P.; Kirk, W. A.) Normal structure in Banach spaces. *Pacific J. Math.* 26 (1968), 433-440. (B. Yood) 38 #1501

(with Steiner, A. K.) A T_1-complement for the reals. *Proc. Amer. Math. Soc.* 19 (1968), 177-179. (A. H. Kruse) 37 #6897

(with Steiner, A. K.) On countable multiple point compactifications. *Fund. Math.* 65 (1969), 133-137. (W. J. Pervin) 40 #868

(with Steiner, A. K.) Graph closures and metric compactifications of *N*. *Proc. Amer. Math. Soc.* 25 (1970), 593-597. (W. W. Comfort) 41 #9206

(with Steiner, A. K.) Nest generated intersection rings in Tychonoff spaces. *Trans. Amer. Math. Soc.* 148 (1970), 589-601. (R. F. Dickman, Jr.) 41 #7637

Steiner, Hans-Georg

Frege und die Grundlagen der Geometrie. I, II. *Math.-Phys. Semesterber.* 10 (1963/64), 175-186; *ibid.* 11 (1964), 35-47. (H. Freudenthal) 29 #2160

Äquivalente Fassungen des Vollständigkeitsaxioms für die Theorie der reellen Zahlen. *Math.-Phys. Semesterber.* 13 (1966), 180-201. (W. Schwabhäuser) 34 #2461

Eine mathematische Theorie der Rangordnungen und Konsensus-Rangordnungen. Material zum Unterrichtsthema: Mathematische Modelle der Wirklichkeit. *Math.-Phys. Semesterber.* 14 (1967), 212-246. (W. Uhlmann) 37 #4907

Elaboration de la géométrie élémentaire sur la base de groupes de représentation. *Bull. Soc. Math. Belg.* 21 (1969), 259-270. (G. J. Schellekens) 42 #8375

Représentation de la syllogistique aristotélicienne sur la base de la théorie des relations. *Bull. Soc. Math. Belg.* 21 (1969), 271-284. (M. R. Krom) 41 #1504

Steiner, Jakob

(See Sydler, J.-P., 32 #1098)

Steiner, Theodore E.

(with Greeno, James G.) Markovian processes with identifiable states: General considerations and application to all-or-none learning. *Psychometrika* 29 (1964), 309-333 (R. Millward) 30 #4603 (E)

(with Greeno, James G.) Comments on "Markovian processes with identifiable states: General considerations and applications to all-or-none learning". *Psychometrika* 33 (1968), 169-172. (L. J. Gleser) 38 #3059

Steinfeld, L.

(with Wegmann, H.) Die Dimension von Teilmengen eines Wahrscheinlichkeitsraumes. *Math. Ann.* 184 (1969/70), 317-325. (F. Eicker) 41 #4700

Steinfeld, Ottó

(with Fuchs, L.) Principal components and prime factorization in partially ordered semigroups. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 6 (1963), 103-111. (J. A. H. Shepperd) 29 #5941

Über Zerlegungssätze für teilweise geordneten Halbgruppen mit bedingten Distributivitätsregeln. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 313-330 (1965). (B. M. Schein (Šaĭn)) 32 #5766

On quasi-ideals. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 301-315. (A. Bovdi (RŽMat 1965 #5 A196)) 37 #4131

On residuals in partially ordered semigroups. *Publ. Math. Debrecen* 12 (1965), 107-116. (B. M. Schein (Šaĭn)) 32 #4201

On semigroups which are unions of completely 0-simple subsemigroups. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 63-69. (P. A. Grillet) 32 #5767

On a generalization of completely 0-simple semigroups. *Acta Sci. Math. (Szeged)* 28 (1967), 135-145. (H.-J. Hoehnke) 35 #6773

Prime elements of negatively ordered algebraic structures. (Hungarian. German summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 467-472. (L. Fuchs) 39 #2683

(with Wiegandt, R.) Über die Verallgemeinerungen und Analoga der Wedderburn-Artinschen und Noetherschen Struktursätze. *Math. Nachr.* 34 (1967), 143-156. (P. Abellanas) 36 #1495

Eine Charakterisierung der primitiven Ideale eines Ringes. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 219-220. (D. C. Murdoch) 37 #6313

Primelemente und Primradikale in gewissen verbandsgeordneten algebraischen Strukturen. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 243-261. (L. Fuchs) 38 #1046

On lattice-ordered algebras with infinitary operations. *Publ. Math. Debrecen* 15 (1968), 239-257. (L. Fuchs) 39 #2681

Über Gruppoid-Verbände. I. *Acta Sci. Math. (Szeged)* 31 (1970), 203-218. (W. C. Holland) 43 #3188

An analogue of Litoff's theorem. *Semigroup Forum* 2 (1971), *no.* 1, 86-88. (G. Pollák) 43 #7535

A remark on intra-regular semigroups. *Semigroup Forum* 2 (1971), *no.* 1, 89. (Donald W. Miller) 44 #350

Šteĭngauz, G. See Steinhaus, H.

Steinhaus, Hugo

Probability, credibility, possibility. *Zastos. Mat.* 6 (1961/63), 341-361. (Editors) 31 #1689

Stefan Banach. *Studia Math. (Ser. Specjalna) Zeszyt* 1 (1963), 7-15. (Editors) 31 #23

A chat (slightly historical). (Polish) *Wiadom. Mat.* (2) 7, 21-26 (1963). 31 #5769

On astatic equilibrium. (Polish) *Wiadom. Mat.* (2) 7, 215-220 (1964). (H. Fast) 32 #4603

Steinheuer, J.

Die Lösungen der Blasiusschen Grenzschichtdifferentialgleichung. (English summary) *Abh. Braunschweig. Wiss. Gesell.* 20 (1968), 96-125. (Author's summary) 39 #3105

Steinig, John

A comparison of two inequalities for the triangle. *Acta Math. Acad. Sci. Hungar.* 16 (1965), 19-22. (N. D. Kazarinoff) 30 #5224

Sur quelques applications géométriques d'une inégalité relative aux fonctions convexes. *Enseignement Math.* (2) 11 (1965), 281-285. (G. D. Chakerian) 33 #4788

Sur les changements de signe du reste dans l'évaluation asymptotique de certaines fonctions arithmétiques. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A905-A906. (O. H. Körner) 37 #5167

On Euler's idoneal numbers. *Elem. Math.* 21 (1966), 73-88. (W. Schwarz) 33 #5570

The changes of sign of certain arithmetical error-terms. *Comment. Math. Helv.* 44 (1969), 385-400. (S. Ikehara) 41 #1658

(with Diamond, Harold G.) An elementary proof of the prime number theorem with a remainder term. *Invent. Math.* 11 (1970), 199-258. (S. Ikehara) 43 #6169

The changes of sign of fractional integrals. *Math. Z.* 116 (1970), 183-190. (C. Fox) 42 #2263

The real zeros of Struve's function. *SIAM J. Math. Anal.* 1 (1970), 365-375. (A. de Castro Brzezicki) 42 #2064

The sign of Lommel's function. *Trans. Amer. Math. Soc.* 163 (1971), 123-129. (F. W. J. Olver) 44 #1849

Steinitz, R.

A theorem on the roots of a certain equation involving Bessel functions. *Proc. Cambridge Philos. Soc.* 67 (1970), 93-96. (S. K. Bose) 40 #2928

Steinlage, R. C.

Semi-direct products and Haar measure on the space of oriented lines in E_3. *Rend. Circ. Mat. Palermo* (2) 17 (1968), 195-207. (F. Cunningham, Jr.) 41 #7072

Steinmann, O.

Perturbation theory in the LSZ-formalism. *Ann. Physics* 29 (1964), 76-100. (K. Symanzik) 32 #3556

A rigorous formulation of LSZ field theory. *Comm. Math. Phys.* 10 (1968), 245-268. (G. R. Allcock) 38 #5449

Electromagnetic mass shifts in non-Lagrangian field theory. *Comm. Math. Phys.* 15 (1969), 133-155. (K. Chadan) 41 #6512

Scattering formalism for non-localizable fields. *Comm. Math. Phys.* 18 (1970), 179-194. (H. Araki) 42 #1443

Steinmetz, Charles Proteus

* Four lectures on relativity and space. *Dover Publications, Inc., New York,* 1967. x + 142 *pp.* (Editors) 35 #2599

Šteins, K.

(with Kroņkalne, S.) Tha asymptotic behavior of the solution of the equation for the diffusion of comets. (Russian) *Latvijas PSR Zinātnu Akad. Vēstis* 1968, *no.* 9 (254), 58-63. (Editors) 38 #2423

Steinschneider, Moritz

* Mathematik bei den Juden. Mit einem Index versehen von Adeline Goldberg. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1964. 221 *pp.* (B. Goldstein) 33 #3866

Steklov, Vladimir Andreevič

(See Smirnov, V. I., 30 #1918; Ignacius, G. I., 35 #4077; Kudrjašova, L. V., 41 #5173 and Ondar, H. O., 44 #3825)

Štelik, V. G.

(with Ševelo, V. M.) On the theory of the non-autonomous mathematical pendulum. (Russian. English summary) *Ukrain. Mat. Ž.* 14 (1962), 372-382. (M. Kiveliovitch) 29 #763

Stell, George

Cluster-star inversion by means of generating functionals. *J. Mathematical Phys.* 6 (1965), 1193-1200. (K. Imre) 32 #2138

(with Lebowitz, J. L.; Baer, S.) Separation of the interaction potential into two parts in treating many-body systems. I. General theory and applications to simple fluids with short-range and long-range forces. *J. Mathematical Phys.* 6 (1965), 1282-1298. (J. R. Dorfman) 31 #5596

Generating functionals and graphs. *Graph Theory and Theoretical Physics, pp.* 281-300. *Academic Press, London,* 1967. (G. Bandyopadhyay) 39 #1193

An inversion problem associated with compositions. *J. Combinatorial Theory* 6 (1969), 7-11. (K. Imre) 38 #4330

Stelleckiĭ, I. V.

(with Karolinskaja, L. N.) Congruences on weakly modular lattices. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1033-1038. (M. Kolibiar) 35 #1518

(with Giuhov, M. M.; Fofanova, T. S.) Lattice theory. (Russian) *Algebra. Topology. Geometry.* 1968 *(Russian, pp.* 101-154. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. (E. Mendelson) 41 #5252

Steller, E. T.

Envelopes of Zylbertrest-lines. *Math. Gaz.* 49 (1965), 279-284. (S. R. Mandan) 32 #4581

Theorems related to Wallace's (Simson's) line. *Elem. Math.* 25 (1970), 28-34. (H. R. Müller) 41 #2511

Congruences modulo a power of a prime. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 1 (92), 80-90. (J. B. Roberts) 41 #1634

Stelletskii, I. V. See Stelleckiĭ, I. V.

Stellmacher, Karl Ludwig

(with Lagnese, J. E.) A method of generating classes of Huygens' operators. *J. Math. Mech.* 17 (1967), 461-472. (J. Glimm) 36 #499

Stelmaşuc, N. T. See Stel′mašuk, N. T.

Stel′mašuk, N. T.

On certain systems of partial differential equations. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 7(21) (1962), *volum special,* 19-28. (Editors) 35 #3235

On functionally-invariant solutions of the Maxwell system. (Russian) *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 97-106 (1964). (Y. Shimizu) 32 #2019

On certain linear partial differential equations in dual, bicomplex algebras. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I (N.S.)* 9 (1963), 63-72. (R. F. Rinehart) 32 #1462

Monogenic complex and bicomplex functions. (Russian) *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 209-216. (R. F. Rinehart) 34 #4516

Some linear partial differential equations in dual and bicomplex algebras. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 136-142. (G. Geymonat) 31 #2376

Generalized solutions of certain linear differential systems in partial derivatives of first order. (Russian. Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 12 (1966), 287-292. (R. A. Kordzadze) 37 #3189

On an investigation of the Maxwell system with the help of *F*-monogenic functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 431-436. (J. H. Giese) 36 #3540

Functionally invariant solutions of certain systems of equations of mathematical physics. (Russian) *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1455-1459. (J. M. Sloss) 40 #7653

Some solutions of Maxwell's system. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 250-252. (R. F. Rinehart) 43 #7128

A construction of functional-invariant solutions of the Maxwell system. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 271-274. (R. F. Rinehart) 44 #1319

Stempin, Carl

Linegraph-flowgraph organization of limb-link networks. *Matrix Tensor Quart.* 16 (1966), 73-88. (G. Kron) 33 #7190

Stempkovskaja, A. A.

On the theory of the Laplace transform. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1671-1676. (L. Berg) 34 #4830

(with Ogieveckiĭ, I. I.) An operational solution of the Cauchy problem for certain classes of differential equations with variable coefficients. (Russian) *Gidroaèromeh. i Teor. Uprugosti Vyp.* 9 (1968), 146-153. (W. Kecs) 44 #4340

Certain question of the theory of the functional gamma transform. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp.* 62-65. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (A. Devinatz) 43 #5265

(with Ogieveckiĭ, I. I.) The two-dimensioanl functional gamma transform. (Russian) *Gidroaèromeh. i Teor. Uprugosti Vyp.* 10 (1969), 143-145. (From the authors' summary) 44 #3083

Stemple, Joel G.

(with Alanen, J.; Ore, O.) Systematic computations on amicable numbers. *Math. Comp.* 21 (1967), 242-245. (From the authors' introduction) 36 #5058

(with Watkins, Mark E.) On planar geodetic graphs. *J. Combinatorial Theory* 4 (1968), 101-117. (J. W. Moon) 36 #1354

(with Ore, Oystein) Numerical calculations on the four-color problem. *J. Combinatorial Theory* 8 (1970), 65-78. (K. Wagner) 42 #127

Stenberg, Warren

On an inequality for Laurent polynomials. *Math. Scand.* 15 (1964), 79-82. (H. Widom) 31 #5010

On weak separation of convex sets and on α-ubiquitous sets. *Math. Scand.* 16 (1965), 55-74. (D. R. Henney) 32 #4521

Stender, Hans-Joachim

Über die Grundeinheit für spezielle unendliche Klassen reiner kubischer Zahlkörper. *Abh. Math. Sem. Univ. Hamburg* 33 (1969), 203-215. (O. F. G. Schilling) 41 #5329

Stender, P. V.

(with Tartakovksiĭ, V. A.) On the word problem in semigroups. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 15-38. (K. Drbohlav) 37 #2879

Stenger, Frank

(with Olver, F. W. J.) Error bounds for asymptotic solutions of second-order differential equations having an irregular singularity of arbitrary rank. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal* 2 (1965), 244-249. 32 #2819

Error bounds for asymptotic solutions of differential equations. I. The distinct eigenvalue case. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 167-186. (F. W. J. Olver) 36 #2901

Error bounds for asymptotic solutions of differential equations. II. The general case. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 187-210. (F. W. J. Olver) 36 #2902

Bounds on the error of Gauss-type quadratures. *Numer Math.* 8 (1966), 150-160. (A. H. Stroud) 33 #5120

Error bounds for the evaluation of integrals by repeated Gauss-type formulae. *Numer. Math.* 9 (1966), 200-213. (J. McNamee) 34 #5289

(with McNamee, J.) Construction of fully symmetric numerical integration formulas. *Numer. Math.* 10 (1967), 327-344. (Authors' summary) 36 #2324

Kronecker product extensions of linear operators. *SIAM J. Numer Anal.* 5 (1968), 422-435. (L. Fox) 38 #4014

On the asymptotic solution of two first order linear differential equations with large parameter. *Funkcial. Ekvac.* 13 (1970), 1-18. (R. E. O'Malley, Jr.) 41 #8772

(with Goodrich, R. F.) Movable singularities and quadrature. *Math. Comp.* 24 (1970), 283-300. (H. E. Fettis) 43 #1422

The asymptotic approximation of certain integrals. *SIAM J. Math. Anal.* 1 (1970), 392-404. (H. A. Lauwerier) 43 #7841

Constructive proofs for approximation by inner functions. *J. Approximation Theory* 4 (1971), 372-386. (D. Gaier) 44 #5474

Stenger, William

On Poincaré's bounds for higher eigenvalues. *Bull. Amer. Math. Soc.* 72 (1966), 715-718. (Author's introduction) 35 #787

An inequality for the eigenvalues of a class of self-adjoint operators. *Bull. Amer. Math. Soc.* 73 (1967), 487-490. (W. W. Hooker) 34 #8195

On the variational principles for eigenvalues for a class of unbounded operators. *J. Math. Mech.* 17 (1967/68), 641-648. (L. Collatz) 37 #3384

On the projection of a selfadjoint operator. *Bull. Amer. Math. Soc.* 74 (1968), 369-372. (S. Goldberg) 36 #3142

On two complementary variational characterizations of eigenvalues. *Inequalities, II (Proc. Second Sympos., U. S. Air Force Acad., Colo., 1967), pp.* 375-387. *Academic Press, New York,* 1970. (J. Hersch) 42 #878

On Fichera's transformation in the method of intermediate problems. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 48 (1970), 302-305. (J. B. Deeds) 43 #979

Nonclassical choices in variational principles for eigenvalues. *J. Functional Analysis* 6 (1970), 157-164. (D. N. Clark) 41 #4281

Stengle, Gilbert

A divergence theorem for Gaussian stochastic process expectations. *J. Math. Anal. Appl.* 21 (1968), 537-546. (W. L. Root) 37 #970

(with Khabbaz, Samir) An application of *K*-thoery to the global analysis of matrix valued functions. *Math. Ann.* 179 (1969), 115-122. (A. Aeppli) 39 #974

Uniform asymptotic solutions of second order linear differential equations without turning varieties. *Math. Comp.* 23 (1969), 1-22. (P. F. Hsieh) 40 #466

A new basis for uniform asymptotic solutions of differential equations containing one or several parameters. *Trans. Amer. Math. Soc.* 156 (1971), 1-43. (Y. Sibuya) 44 #2991

Stenholm, Stig

On linear equations in a Hilbert space. *Ann. Acad. Sci. Fenn. Ser. A I No.* 370 (1965), 14 *pp.* (R. G. Douglas) 32 #4552

Exact solution of a case of semiclassical laser equations. *Phys. Rev. B* (3) 1 (1970), 15-20. (D. B. Fairlie) 41 #4961

Stenius, Erik

The principles of a logic of normative systems. *Acta Philos. Fenn. Fasc.* 16 (1963), 247-260. (E. J. Lemmon) 31 #44

Stenström, Bo T.

Pure submodules. *Ark. Mat.* 7, 159-171 (1967). (E. A. Walker) 36 #6473

High submodules and purity. *Ark. Mat.* 7, 173-176 (1967). (E. A. Walker) 36 #6401

Direct sum decompositions in Grothendieck categories. *Ark. Mat.* 7, 427-432 (1968). (R. L. Knighten) 40 #209

Purity in functor categories. *J. Algebra* 8 (1968), 352-361. (E. A. Walker) 37 #5271

Radicals and socles of lattices. *Arch. Math. (Basel)* 20 (1969), 258-261. (T. S. Blyth) 39 #6796

On the completion of modules in an additive topology. *J. Algebra* 16 (1970), 523-540. (E. A. Walker) 42 #6028

Coherent rings and *FP*-injective modules. *J. London Math. Soc.* (2) 2 (1970), 323-329. (B. L. Osofsky) 41 #3533

Stenzel, Lothar

Über eine Klasse geordneter Halbgruppen mit negativen Elementen. *Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe* 13 (1969), 411-415. (V. S. Krishnan) 40 #7171

Štěpán, Jaromír

The applicability limitation of identification methods. (Czech summary) *Kybernetika (Prague)* 5 (1969), 97-112. (From the author's summary) 39 #3852

Štěpán, Jaroslav

Two theorems on five skew lines. (Czech. German summary) *Časopis Pěst. Mat.* 95 (1970), 348-355. (V. Volenec) 43 #3891

Two theorems on two skew hyperboloids. (Czech. German summary) *Časopis Pěst. Mat.* 95 (1970), 370-378. (V. Volenec) 43 #3892

Štěpán, Josef

Convex sets of probability measures. (Czech. English summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 73-79. (Z. Šidák) 39 #4888

Some notes on the convolution semigroup of probabilities on a metric group. *Comment. Math. Univ. Carolinae* 10 (1969), 613-624. (G. Schay) 41 #4600

On the family of translations of a tight probability measure on a topological group. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 131-138. (M. A. Akcoglu) 43 #3815

Stepanec, G. F.

Basis systems of vector cycles with extremal properties in graphs. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 2 (116), 171-175. (A. Rosa) 30 #2492

Stepanec', O. Ī.

The approximation of continuous functions by rational polynomials. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 234-237. (J. Albrycht) 35 #5828

(with Poljakov, R. V.) The approximation of continuous functions by algebraic polynomials. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 27-32. (C. de Boor) 37 #656

(with Poljakov, R. V.) The approximation of continuous functions by ordinary polynomials. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 192-202. (J. Szabados) 37 #657

(with Poljakov, R. V.) The approximation of quasismooth functions by ordinary polynomials. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 534-540. (J. Szabados) 37 #6648

(with Dzjadik, V. K.; Gavriljuk, V. T.) The approximation of functions of Hölder classes by Rogosinski polynomials. (Ukrainian. English and Russian summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 203-206, 268. (M. Tomić) 42 #737

(with Dzjadik, V. K.; Gavriljuk, V. T.) The least upper bound of approximations on classes of differentiable periodic functions by means of Rogosinski polynomials. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 481-493. (Ivan Singer) 42 #6496

Štěpánek, František

A Tauber's theorem for (J,P_n) summability. *Monatsh. Math.* 70 (1966), 256-260. (D. Waterman) 34 #6379

Note on the product of Leibniz series. (Russian. Czech and English summaries) *Časopis Pěst. Mat.* 92 (1967), 351-355. (O. E. Stanaitis) 36 #4191

Štěpánek, Jiří

Poissonsche, Wellen- und Wärmeleitungsgleichung auf Flächen. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 42-50. (D. Ludwig) 35 #3284

Das Dirichletsche Problem für die Laplace-Gleichung auf dem geodätischen Kreis einer Fläche. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 51-62. (D. Ludwig) 35 #3285

Das Dirichletsche Problem für die Laplace-Gleichung auf dem Gebiet einer Fläche. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 63-69. (D. Ludwig) 35 #3286

Das Dirichletsche Problem für die Wellen- und Wärmeleitungsgleichung auf dem geodätischen Kreis einer Fläche. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 70-80. (D. Ludwig) 35 #3287

Die Lösung des Dirichletschen und Neumannschen Problemes für die Poissonsche Gleichung auf Flächen mit Hilfe der Greenschen Funktion. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 81-88. (D. Ludwig) 35 #3288

Generalization of the Taylor and Laurent expansion. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 92 (1967), 436-442. (J. Ławrynowicz) 37 #4242

Štěpánek, Petr

(with Vopěnka, Petr) Decomposition of metric spaces into nowhere dense sets. *Comment. Math. Univ. Carolinae* 8 (1967), 387-404; *correction, ibid.* 8 (1967), 567-568. (E. Engeler) 37 #1250

Generators of the Boolean algebra of regular open sets in linear metric spaces. *Comment. Math. Univ. Carolinae* 9 (1968), 95-101. (E. Engeler) 37 #6218

Stepanenko, I. M.

A solution of the first boundary value problem for a certain system of parabolic equations with discontinuous coefficients. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 63-70. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (D. B. Kotlow) 39 #7290

Stepanenko, I. Z.

* (with Položiĭ, G. M.; Paharēva, N. O.; Bondarenko, P. S.; Velikoĭvanenko, I. M.) Metody przybliżonych oblichzeń. (Polish) [Method of approximate calculations] Edited by G. N. Položiĭ. Translated from the Russian by Robert Konstanty Krzywiec. *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1966. 487 *pp.* (Editors) 36 #4774

Stepanenko, P. T.

Almost subprojective spaces with a cubic complex of geodesic lines. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 150-155. (M. Kucharzewski) 34 #3483

(with Vakarčuk, B. S.) The envelope of a one-parameter family of limit surfaces in Lobačevskiĭ space. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 94-101. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. C. Chaki) 42 #6699

(with Vakarčuk, A. A.) Helical surfaces in Lobačevskiĭ space. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 29-32. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. C. Chaki) 42 #6700

(with Vakarčuk, B. S.) A certain generalization of cut surfaces. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp.* 77-81. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (Z. Nádeník) 42 #8406

Stepanenko, V. N.

A method for identification of cyclic plants. I. *Avtomatika* 1968, *no.* 4, 53-61 *(Ukrainian); translated as Soviet Automat. Control* 1968, *no.* 4, 41-47 (1969). (B. P. Zeigler) 42 #8973a

Identification of cyclic plants. II. *Avtomatika* 1968, *no.* 5, 67-74 *(Ukrainian); translated as Soviet Automat. Control* 1968, *no.* 5, 50-56 (1969). (B. P. Zeigler) 42 #8973b

Adaptive algorithms of statistical control. *Avtomatika* 1968, *no.* 6, 48-54 *(Ukrainian); translated as Soviet Automat. Control* 1968, *no.* 6, 36-41 (1969). (R. S. Bucy) 43 #1718

Stepan'janc, G. A.

(with Petrov, B. N.) A contribution to the theory of branching systems. *Dokl. Akad. Nauk SSSR* 186 (1969), 783-786 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 520-522. (C. P. Tsokos) 44 #7659

Stepanoff, V. See Stepanov, V. V.

Stepanov, A. A.

The order of best approximations of continuous functions of two variables with respect to each variable. (Russian) *Volgograd. Gos. Ped. Inst. Učen. Zap. Vyp.* 23 (1969), 278-294. (J. Szabados) 44 #708

Stepanov, A. È.

(with Puhov, G. È.; Borkovskiĭ, B. A.) The method of simulation of continuous operators. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1963, 325-331. (Authors' summary) 29 #1755

(with Puhov, G. È.) Electronic computer synthesis of algebraic objects. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1963, 447-451. (Authors' summary) 29 #1770

Stepanov, A. S.

(with Stahanov, I. P.) Transport equations for a three-component plasma in a magnetic field. *Ž. Tehn. Fiz.* 34 (1964), 399-409 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 315-323. (T. Kahan) 32 #5298

Stepanov, A. V.

(with Kazarnovksiĭ, M. V.) The time correlation function technique and its application to the theory of the shift and deformation of the Mössbauer line. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 543-557 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 362-371. 32 #7079

Stepanov, B. M.

The abstract theory of the R-operation. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 819-830. (M. Z. v. Krzywoblocki) 31 #6570

The construction of S-metrices. *Dokl. Akad. Nauk SSSR* 151 (1963), 84-86 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 663-665. (W. M. Frank) 29 #4461

On the construction of the S-matrix in perturbation theory. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1037-1054. (S. Ciulli) 34 #1036

Stepanov, K. N.

* (with Ahiezer, A. I.; Ahiezer, I. A.; Polovin, R. V.; Sitenko, A. G.) Коллективные колебания в пласме. (Russian) [Collective vibrations in plasma] *Atomizdat. Moscow,* 1964. 163 *pp.* (R. Balescu) 32 #8922

Stepanov, N. A.

Reductivity of factor-spaces generated by endomorphisms of Lie groups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 2 (57), 74-79. (K. Strambach) 35 #293

Basic facts of the theory of ϕ-spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 88-95. (K. Strambach) 35 #6091

Homogeneous 3-cyclic spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 12 (67), 65-74. (O. Em. Gheorghiu) 36 #5842

Stepanov, N. V.

Joint invariants of two families of curves on the plane. (Russian) *Trudy Geometr. Sem.* 2 (1969), 299-331. (Z. Nádeník) 41 #942

Stepanov, S. A.

The approximation of an algebraic number by algebraic numbers of a special form. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 6, 78-86. (K. Mahler) 36 #2563

Congruences modulo a power of a prime number. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 43-46. (J. B. Roberts) 39 #5459

The number of points of a hyperelliptic curve over a finite prime field. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 1171-1181. (W. Vogel) 40 #5620

} The estimation of Weil sums with prime denominator. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1015-1037. (L. A. Kogan) 42 #7669

Stepanov, S. Ja.

On the stability of dissipative systems. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 4, 59-66. (J. K. Hale) 29 #6132

(with Rubanovskiĭ, V. N.) On the Routh theorem and the Chetaev method for constructing the Liapunov function from the integrals of the equations of motion. *Prikl. Mat. Meh.* 33 (1969), 904-912 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 882-890 (1970). (A. A. Kayande) 42 #2120

Elementary method in the theory of congruences for a prime modulus. *Acta Arith.* 17 (1970), 231-247. (W. Ljunggren) 42 #4552

Stepanov, V. A.

(with Popov, V. N.; Stiševa, A. G.; Travnikova, N. A.) A programming program. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 78-95. (P. Constantinescu) 29 #3015

Stepanov, V. E.

The distribution of the number of vertices in the layers of a random tree. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 64-77. (J. G. Wendel) 39 #7648

Combinatorial algebra and random graphs. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 393-420. (D. A. Darling) 41 #7734

Limit distributions of certain characteristics of random mappings. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 639-653. (I. Csiszár) 43 #4080

The probability of the connectedness of a random graph $\mathcal{G}_m(t)$. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 58-68. (B. I. Penkov) 42 #5295a

Phase transitions in random graphs. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 200-216. (B. I. Penkov) 42 #5295b

Stepanov, V. I.

Statistical investigation of an extrapolation system with noise suppression by mixed method storage. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 3, 122-131. 32 #3924

(The sign } indicates an entry in the supplement.)

Stepanov, V. V.

* Lehrbuch der Differentialgleichungen. Zweite, berichtigte Auflage. Überzetzung aus dem Russischen nach der sechsten Auflage: Joachim Auth, Dieter Bebel, Herbert Friedrich. Hochschulbücher für Mathematik, Band 20. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1963. ix + 472 *pp.* (Editors) 31 #1418

Stepanova, L. L.

(with Nečaev, V. I.) The distribution of nonresidues and primitive roots in recurrence sequences over a field of algebraic numbers. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 197-203. (J. D. Seift) 33 #115

Stepanova, O. V.

A property of level lines in univalent conformal mappings. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 1330. (Editors) 32 #2577

Certain properties of the level curves of univalent conformal mappings. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 72-96. (R. J. Libera) 34 #6066

The range of values of a certain functional in the class of schlicht functions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 210 (1969), 97-110. (Z. Lewandowski) 43 #7618

Stepanova, T. V.

Generalized Emden-Fowler equation. (Russian) *Differencial'nye Uravnenija* 3 (1967), 831-838. (W. S. Loud) 35 #3169

(with Andreev, A. F.) The number of Frommer substitutions sufficient to reveal all TO-curves of the equation $X(x,y)dy = Y(x,y)dx$. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1560-1573. (C. S. Coleman) 38 #4749

The number of operations required in the investigation by Frommer's method of a singular point of a differential equation with piecewise quasianalytic right-hand side. (Russian) *Differencial'nye Uravnenija* 4 (1968), 2208-2214. (C. S. Coleman) 41 #566

The number of operations in the investigation of the singular point of a generalized Briot-Bouquet equation in the quasianalytic case. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1120-1127. (M. Bertolino) 39 #5873

Stepanovs'kiĭ, Ju. P.

Algebra of the Dirac matrices in the six-dimensional form. (Ukrainian. Russian and English summaries) *Ukraïn. Fiz. Ž.* 11 (1966), 813-824. (Author's summary) 34 #7161

Stepanow, W. W. See Stepanov, V. V.

Štepanskiĭ, V.

Central nomograms for dependency with six complex variables. (Russian) *Nomographic Collection, No. 6 (Russian), pp.* 153-160. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. (L. Bitay) 44 #4943

Stepan'yats, G. A. See Stepan'janc, G. A.

Stephan, Bruce H.

(with Hochstadt, Harry) On the limit cycles of $\ddot{x} + \mu \sin \dot{x} + x = 0$. *Arch. Rational Mech. Anal.* 23 (1967), 369-379. (W. Wasow) 34 #6211

On the existence of periodic solutions of $z'(t) = -az(t - r + \mu k(t,z(t))) + F(t)$. *J. Differential Equations* 6 (1969), 408-419. (S. P. Hastings) 40 #3012

Asymptotic behavior of a functional differential equation with bounded lag. *SIAM H. Appl. Math.* 17 (1969), 272-279. (N. Onuchic) 40 #4570

Periodic solutions of differential equations with almost constant time lag. *J. Differential Equations* 8 (1970), 554-563. (R. K. Miller) 42 #632

On hereditary equations clase to ordinary differential equations. *SIAM J. Appl. Math.* 19 (1970), 527-531. (V. Staikos) 42 #6384

Stephan, Frederick F.

(with Tukey, John W.; Mosteller, Frederick; Mood, Alex M.; Hansen, Morris H.; Simon, Leslie E.; Dixon, W. J.) Samuel S. Wilks. *J. Amer. Statist. Assoc.* 60 (1965), 939-966. (Editors) 32 #8420

Stephani, Hans

Die Struktur der Felder und der Bewegungsgleichungen von N geladenen, gravitierenden Massenpunkten in erster und zweiter Näherung. *Acta Phys. Polon.* 26 (1964), 1045-1060. (W. M. Tulczyjew) 31 #4567

(with Kramer, D.) Bispinorfelder im Riemannschen Raum. *Acta Phys. Polon.* 29 (1966), 379-386. (Authors' summary) 34 #5478

Lösungen der Einsteinschen Feldgleichungen, die sich in einen 6- bzw. 5-dimensionalen flachen Raum einbetten lassen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 17 (1968), *Heft* 2, 215-218. 39 #2436

Stephani, Irmtraud

Eine Ergänzung zu einem Lemma von Nachbin. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 287-291. (E. J. Barbeau) 37 #4572

Äquivalenztheorie der Variationsprobleme. *Math. Nachr.* 31 (1966), 309-333. (M. R. Hestenes) 35 #839

Injektive Operatorenideale über der Gesamtheit aller Banachräume und ihre topologische Erzeugung. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 105-124. (A. Pietsch) 43 #6738

Stephanidis, N. K.

Strahlensysteme mit gemeinsamer Mittenhüllfläche. *Monatsh. Math.* 70 (1966), 64-73. (P. Scherk) 33 #3215

Sechseckgewebe auf Flächen negativer Krümmung. *Monatsh. Math.* 70 (1966), 261-269. (F. Şemin) 34 #3452

Integralformeln in der Liniengeometrie. *Math. Nachr.* 43 (1970), 1-9. (F. Şemin) 42 #986

Stephen, D.

Topology on finite sets. *Amer. Math. Monthly* 75 (1968), 739-741. (M. G. Murdeshwar) 38 #2725

Stephen, H. J. Smith. See Smith, H. J. Stephen.

Stephen, M. J.

(with Bardeen, John) Free-energy difference between normal and superconducting states. *Phys. Rev.* (2) 136 (1964), A1485-A1487. (D. J. Thouless) 32 #917

Transport equations for superconductors. *Phys. Rev.* (2) 139 (1965), A197-A205. (N. R. Werthamer) 32 #7101

Stephens, M. A.

(with Pearson, E. S.) The goodness-of-fit tests based on W_N^2 and U_N^2. *Biometrika* 49 (1962), 397-402. (I. M. Chakravarti) 29 #4152

The distribution of the goodness-of-fit statistic U_N^2. I. *Biometrika* 50 (1963), 303-313. (E. J. Gumbel) 29 #4153

Random walk on a circle. *Biometrika* 50 (1963), 385-390. (H. P. McKean, Jr.) 29 #2871

The distribution of the goodness-of-fit statistic, U_N^2. II. *Biometrika* 51 (1964), 393-397. (E. J. Gumbel) 31 #826

(with Pearson, E. S.) The ratio of range to standard deviation in the same normal sample. *Biometrika* 51 (1964), 484-487. (H. L. Harter) 31 #2781

The goodness-of-fit statistic V_N: Distribution and significance points. *Biometrika* 52 (1965), 309-321. (S. Kotz) 34 #6897

Significance points for the two-sample statistic $U_{M,N}^2$. *Biometrika* 52 (1965), 661-663. (Author's summary) 34 #5214

Statistics connected with the uniform distribution: Percentage points and application to testing for randomness of directions. *Biometrika* 53 (1966), 235-240. (H. E. Reinhardt) 33 #5023

Tests for the dispersion and for the modal vector of a distribution on a sphere. *Biometrika* 54 (1967), 211-223. (E. J. Williams) 36 #1022

(with Maag, Urs R.) The V_{NM} two-sample test. *Ann. Math. Statist.* 39 (1968), 923-935. (Z. Govindarajulu) 37 #3710

Results from the relation between two statistics of the Kolmogorov-Smirnov type. *Ann. Math. Statist.* 40 (1969), 1833-1837. (S. Blumenthal) 41 #4755

(See also Boneva, Liliana I.; Kendall, David; Stefanov, Ivan; 44 #6083)

Stephens, M. S.

(See Watson, G. S., 34 #6931)

Stephens, N. M.

(with Birch, B. J.) The parity of the rank of the Mordell-Weil groups. *Topology* 5 (1966), 295-299. (J. W. S. Cassels) 34 #1263

Conjectures concerning elliptic curves. *Bull. Amer. Math. Soc.* 73 (1967), 160-163. (T. Ono) 34 #7510

A corollary to a conjecture of Birch and Swinnerton-Dyer. *J. London Math. Soc.* 43 (1968), 146-148. (B. Berlowitz) 39 #4097

The diophantine equation $X^3 + Y^3 = DZ^3$ and the conjectures of Birch and Swinnerton-Dyer. *J. Reine Angew. Math.* 231 (1968), 121-162. (J. W. S. Cassels) 37 #5225

Stephens, Wendell B.

(with Friedericy, Johan A.) Large deflection solution of rotating cones. *Developments in Theoret. and Appl. Mech. Vol.* 2 *(Proc. Second Southeastern Conf., Atlanta, Ga.,* 1964*), pp.* 69-93. *Pergamon, Oxford,* 1965. (P. R. Paslay) 30 #5567

Stephenson, G.

Generally covariant variational principles. (French summary) *Les theories relativistes de la gravitation (Royaumont, 1959), pp.* 225-229. *Editions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2066

Stephenson, John L.

Ising-model spin correlations on the triangular lattice. *J. Mathematical Phys.* 5 (1964), 1009-1024. (G. Newell) 29 #5574

Stephenson, Robert M., Jr.

(with Scarborough, C. T.) Minimal topologies. *Colloq. Math.* 19 (1968), 215-219. (H. Herrlich) 37 #3522

Spaces for which the Stone-Weierstrass theorem holds. *Trans. Amer. Math. Soc.* 133 (1968), 537-546. (C. W. Kohls) 37 #3337

Pseudocompact spaces. *Trans. Amer. Math. Soc.* 134 (1968), 437-448. (J. W. Rogers, Jr.) 38 #674

Two minimal first countable Hausdorff spaces. *Math. Z.* 108 (1969), 171-172. (H. Herrlich) 38 #6531

Product spaces for which the Stone-Weierstrass theorem holds. *Proc. Amer. Math. Soc.* 21 (1969), 284-288. (H. Tong) 40 #3499

A countable minimal Urysohn space is compact. *Proc. Amer. Math. Soc.* 22 (1969), 625-626. (C. W. Patty) 39 #6255

Noncut points and modified compactness conditions. *Proc. Amer. Math. Soc.* 23 (1969), 266-272. (V. J. Mancuso) 40 #2010

Minimal first countable topologies. *Trans. Amer. Math. Soc.* 138 (1969), 115-127. (P. S. Schnare) 38 #6537

(with Berri, M. P.; Porter, J. R.) A survey of minimal topological spaces. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur, 1968), pp.* 93-114. *Academia, Prague,* 1971. 43 #3985

Minimal topological groups. *Math. Ann.* 192 (1971), 193-195. (H. Herrlich) 44 #4141

(with Saks, Victor) Products of $\mathfrak{M}$-compact spaces. *Proc. Amer. Math. Soc.* 28 (1971), 279-288. (K. D. Magill, Jr.) 42 #8448

Products of minimal Urysohn spaces. *Duke Math. J.* 38 (1971), 703-707. (H. Herrlich) 44 #2194

Minimal first countable Hausdorff spaces. *Pacific J. Math.* 36 (1971), 819-825. (H. L. Shapiro) 44 #5916

Stephenson, W.

Unique addition rings. *Canad. J. Math.* 21 (1969), 1455-1461. (H. J. Weinert) 40 #7295

Lattice isomorphisms between modules. I. Endomorphism rings. *J. London Math. Soc.* (2) 1 (1969), 177-183. (J. E. McLaughlin) 41 #1794

(with Cukerman, G. M.) Rings of endomorphisms of projective modules. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 228-232. (J. S. Alin) 44 #1693

Stępień, Kazimierz

Hydromagnetic oscillation of plasma. (Polish. Russian and English summaries) *Postępy Astronom.* 14 (1966), 19-48. 32 #6866

Stepin, A. M.

Properties of spectra of ergodic dynamic systems with locally compact time. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 773-776. (I. Csiszár) 34 #311

(with Katok, A. B.) Approximation of ergodic dynamical systems by periodic transformations. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1268-1271. (J. Auslander) 34 #7774a

Square roots of metric automorphisms. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1023-1026. (D. Newton) 36 #2777

The spectrum and approximation of metric automorphisms by periodic transformations. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 77-80. (J. Auslander) 36 #3951

(with Katok, A. B.) Approximations in ergodic theory. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 81-106. (N. Dinculeanu) 36 #2776

Flows on aolvable manifolds. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 5 (149), 241-242. (J. Merza) 42 #1977

(with Katok, A. B.) Metric properties of homeomorphisms that preserve measure. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 193-220. (S. M. Rudolfer) 41 #5594

The entropy invariant of decreasing sequences of measurable partitions. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 80-84. (D. Newton) 44 #1793

Stepin, V. P.

On the (L,α)-method of summability. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6 (1967), *tetrad'* 2, 119-126 (1968). (S. Baron (RŽMat 1968 #11 B34)) 43 #2385

Certain theorems on the (L,α)-method of summability in matrix notation. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6 (1967), *tetrad'* 2, 127-132 (1968). (S. Baron (RŽMat 1968 #11 B35)) 43 #2386

(L,α)-summation of Fourier series. Gibbs phenomenon. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 4 103-108 (1968). (A. Efimov (RŽMat 1969 #12 B132)) 43 #809

Generalization of certain Tauberian theorems for Abel's method to the method (L,α). (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 78 (1969), 77-80. (G. Halász) 44 #5656

Stepleman, Robert S.

Finite-dimensioanl analogues of variational problems in the plane. *SIAM J. Numer. Anal.* 8 (1971), 11-23. (P. G. Ciarlet) 44 #7719

Stepp, James W.

A note on maximal locally compact semigroups. *Proc. Amer. Math. Soc.* 20 (1969), 251-253. (K. H. Hofmann) 38 #1206

D-semigroups. *Proc. Amer. Math. Soc.* 22 (1969), 402-406. (T.-S. Wu) 39 #7022

Locally compact Clifford semigorups. *Pacific J. Math.* 34 (1970), 163-176. (K. H. Hofmann) 42 #4668

(with Fulp, R. O.) Semigroup extensions. *J. Reine Angew. Math.* 248 (1971), 28-41. (J. W. Baker) 43 #3383

Semilattices which are embeddable in a product of min intervals. *Proc. Amer. Math. Soc.* 28 (1971), 81-86. (J. D. McCharen) 43 #1895

Semilattices which are embeddable in a product of min intervals. *Semigroup Forum* 2 (1971), *no.* 1, 80-82. (E. Gedeonová) 44 #5260

(with Fulp, Ronald O.) The semigroup of semigroup extensions. *Semigroup Forum* 2 (1971), *no.* 2, 173-180. (Haskell Cohen) 44 #345

(with Fulp, O. R.) Structure of the semigroup of semigroup extensions. *Trans. Amer. Math. Soc.* 158 (1971), 63-73. (J. W. Baker) 43 #3384

Sterbenz, P. H.

(with Fike, C. T.) Optimal starting approximations for Newton's method. *Math. Comp.* 23 (1969), 313-318. (H. M. Lieberstein) 39 #6511

Šterbová, Dina

A note on the generalization of Egorov's theorem. *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 83-89. (J. C. Oxtoby) 39 #393

Šterengas, V. N.

Singular solutions of a certain class of nonlinear integral equations. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 188 217-238 (1967). (J. Kolomý) 39 #6034

Sterlikova, L. N.

(with Kogan, I. V.) Construction of verification tests for repetition-free bracket formulae. (Russian) *Diskret. Analiz No.* 17 (1970), 22-31. (J. Morávek) 44 #8052

Sterlin, A. M.

(with Neĭmark, Ju. I.; Smirnova, V. N.) On investigating the stability of difference methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 517-533. (M. Zlámal) 38 #6771

(with Gordion, M. I.; Plotnikov, V. I.) Necessary conditions of optimality for control systems with lag in problems with constraints. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1621-1629. (V. Polák) 44 #3741

Sterling, Daniel J.

Coverings of algebraic groups and Lie algebras of classical type. *Pacific J. Math.* 14 (1964), 1449-1462. (R. Steinberg) 30 #3178

Sterling, Nicholas J.

Prime (-1,1) rings with idempotent. *Proc. Amer. Math. Soc.* 18 (1967), 902-909. (K. A. Ževlakov) 35 #6728

Prime associator-dependent rings with idempotent. *Trans. Amer. Math. Soc.* 128 (1967), 474-481. (D. C. Murdoch) 35 #2933

Rings satisfying $(x,y,z) = (y,z,x)$. *Canad. J. Math.* 20 (1968), 913-918. (K. Meyberg) 37 #2828

Štern, A. I.

Completely irreducible representations of SU(2,1). (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1289-1292. (R. Goodman) 37 #4203

Completely irreducible representations of SU(2,1) and their traces. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 4, 94-95. (D. L. Ragozin) 40 #1534

Completely irreducible class I representations of real semisimple Lie groups. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 1017-1019. (J. M. G. Fell) 41 #1931

Separable locally compact groups with discrete support for a regular representation. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 1287-1290. (R. Goodman) 44 #6910

Stern, David P.

The canonization of nice variables. *J. Mathematical Phys.* 12 (1971), 2226-2231. (D. ter Haar) 44 #6186

Classical adiabatic perturbation theory. *J. Mathematical Phys.* 12 (1971), 2231-2242. (D. ter Haar) 44 #5032

Stern, F.

(with Cooley, J. W.) Solution of the equation for wave propagation in layered slabs with complex dielectric constants. *IBM J. Res. Develop.* 9 (1965), 405-411. (Authors' summary) 32 #1890

Stern, H.

(with Brout, R.) Response functions, superconductivity and ferromagnetism in the many fermion system. *Physica* 30 (1964), 1689-1712. (M. J. Stephen) 32 #7116

(with Englert, F.; Brout, R.) Mass quantization conditions from infinite superconvergence and chiral symmetry. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 845-855. (G. Barton) 41 #7959

Stern, J.

(with Jersák, J.) Charges $\hat{Q}^{i}(n)$ and spectrum-generating algebra. *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory. Varna,* 1968*), pp.* 380-385. *Izdat. Otdel Ob''edinen. Inst. Jader. Issled., Dubna,* 1968. (L. O'Raifeartaigh) 40 #8360

Stern, J. L.

(with Osborne, R. P.) Covering manifolds with cells. *Pacific J. Math.* 30 (1969), 201-207. (K. W. Kwun) 39 #6327

Stern, Louis W.

(with Hsiung, Chuan-chih) Conformality and isometry of Riemannian manifolds to spheres. *Bull. Amer. Math. Soc.* 76 (1970), 1253-1256. (Ngô van Quê) 42 #2386

(with Hsiung, Chuan-chih) Conformality and isometry of Riemannian manifolds to spheres. *Trans. Amer. Math. Soc.* 163 (1971), 65-73. (Y. Tashiro) 44 #2172

Stern, M. D.

Optimal quadrature formulae. *Comput. J.* 9 (1967), 396-403. (D. J. Evans) 35 #3885

Stern, Samuel T.

The seminatural numbers. *Amer. Math. Monthly* 73 (1966), 598-603. (R. J. Levit) 33 #5496

On the complete independence of the axioms of a seminatural system. *Math. Mag.* 39 (1966), 232-236. (D. H. Potts) 34 #7380

A number theory for the seminaturals. *Z. Math. Logik Grundlagen Math.* 15 (1969), 401-410. (L. K. Durst) 42 #3017

Stern, Thomas Edwin

(with Friedland, B.) The linear modular sequential circuit generalized. *Linear Sequential Switching Circuits, pp.* 79-82. *Holden-Day, San Francisco, Calif.*, 1965. (J. Hartmanis) 32 #2278

Sternberg, Eli

(with Gurtin, M. E.) Further study of thermal stresses in viscoelastic materials with temperature-dependent properties. *Second-Order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1964), pp.* 51-76. *Jerusalem Academic Press, Jerusalem, Pergamon, Oxford,* 1964. (J. H. Weiner) 31 #4270

(with Knowles, James K.) Minimum energy characterizations of Saint-Venant's solution to the relaxed Saint-Venant problem. *Arch. Rational Mech. Anal.* 21 (1966), 89-107. (I. McIvor) 32 #6750

(with Muki, Rokuro) The influence of couple-stresses on singular stress concentrations in elastic solids. (German summary) *Z. Angew. Math. Phys.* 16 (1965), 611-648. (W. T. Koiter) 33 #6901

(with Knowles, James K.) On Saint-Venant's principle and the torsion of solids of revolution. *Arch. Rational Mech. Anal.* 22 (1966), 100-120. (W. D. Kroll) 32 #8570

(with Truteltaub, M. J.) Elastostatic uniqueness in the half-space. *Arch. Rational Mech. Anal.* 24 (1967), 233-242. (M. E. Gurtin) 34 #7092

(with Truteltaub, M. J.) On concentrated loads and Green's functions in elastostatics. *Arch. Rational Mech. Anal.* 29 (1968), 193-240. (J. Ignaczak) 37 #2490

(with Muki, Rokuro) Note on an asymptotic property of solutions to a class of Fredholm integral equations. *Quart. Appl. Math.* 28 (1970), 277-281. (K. N. Srivastava) 41 #8942

Sternberg, H. M.

(with Diaz, J. B.) Computation of the Riemann function for the operator $\partial^n/\partial x_1 \partial x_2 \cdots \partial x_n + a(x_1, x_2, \cdots, x_n)$. *Math. Comp.* 19 (1965), 562-569. (P. Laasonen) 33 #8112

Sternberg, Shlomo

(with Guillemin, Victor) Sur les systèmes de formes différentielles. *Ann. Inst. Fourier (Grenoble)* 13 (1963), *fasc.* 2, 61-74. (H. B. Shutrick) 30 #2427

(with Guillemin, Victor) On differential systems. II. *Proc. Nat. Acad. Sci. U.S.A.* 50 (1963), 994-995. (H. B. Shutrick) 30 #2428

* Lectures on differential geometry. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1964. xv + 390 pp. (W. F. Pohl) 33 #1797

(with Guillemin, Victor W.) An algebraic model of transitive differential geometry. *Bull. Amer. Math. Soc.* 70 (1964), 16-47. (W. F. Pohl) 30 #533

(with Ehrenpreis, Leon; Guillemin, Victor W.) On Spencer's estimate for δ-Poincaré. *Ann. of Math.* (2) 82 (1965), 128-138. (R. Bott) 32 #4709

(with Singer, I. M.) The infinite groups of Lie and Cartan. I. The transitive groups. *J. Analyse Math.* 15 (1965), 1-114. (M. Kuranishi) 36 #911

(with Guillemin, Victor) Deformation theory of pseudogroup structures. *Mem. Amer. Math. Soc. No.* 64 (1966), 80 *pp.* (W. F. Pohl) 35 #2302

(with Guillemin, V.; Quillen, D.) The classification of the complex primitive infinite pseudogroups. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 687-690. (A. M. Rodrigues) 34 #3594

(with Guillemin, Victor W.; Quillen, Daniel) The classification of the irreducible complex algebras of infinite type. *J. Analyse Math.* 18 (1967), 107-112. (J. L. Koszul) 36 #221

(with Guillemin, V. W.) The Lewy counterexample and the local equivalence problem for *G*-structures. *J. Differential Geometry* 1 (1967), 127-131. (W. F. Pohl) 36 #5850

* (with Loomis, Lynn H.) Advanced calculus. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.*, 1968. x + 580 *pp.* (A. E. Danese) 37 #2912

(with Guillemin, Victor W.) Remarks on a paper of Hermann. *Trans. Amer. Math. Soc.* 130 (1968), 110-116. (K.-T. Chen) 36 #317

(See also Gandz, Solomon, 42 #4358)

On the Guillemin normal form for partial differential operators. *J. Analyse Math.* 23 (1970), 437-440. (H. H. Johnson) 42 #6447

(with Guillemin, Victor) Subelliptic estimates for complexes. *Proc. Nat. Acad. Sci. U.S.A.* 67 (1970), 271-274. (R. S. Palais) 42 #1156

Sternberger, Dolf

(See Hilbert, D., 44 #18)

Sternheimer, Daniel

Propriété multiplicative de l'indice analytique. Opérateurs de Calderon-Zygmund à symbole continu. Produits tensoiels. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur differentiel elliptique (Séminaire H. Cartan,* 16^{e} *année: 1963/64, Fasc. 2), Exposé* 22, 23 *pp. Secrétarist mathématique, Paris,* 1965. (J. Dieudonné) See 31 #4047b

(with Flato, Moshé) Algèbres unifiantes; application à l'algèbre de Lie du groupe de Poincaré. *C. R. Acad. Sci. Paris* 260 (1965), 3532-3534. (G. B. Seligman) 31 #279

(with Flato, Moshé; Vigier, Jean-Pierre) Le groupe conforme comme possibilité de symétrie unifée en physique des interactions fortes. *C. R. Acad. Sci. Paris* 260 (1965), 3869-3872. (A. H. Taub) 30 #5737

(with Bohm, D.; Flato, M.; Vigier, J. P.) Conformal-group symmetry of elementary particles. *Nuovo Cimento* (10) 38 (1965), 1941-1944. (R. Mirman) 33 #7026

(with Flato, M.) Remarks on the connection between external and internal symmetries. *Phys. Rev. Lett.* 15 (1965), 934-936. (K. Hepp) 34 #3932

(with Flato, Moshé) Remarques sur les automorphismes causals de l'espace-temps. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A935-A938. (Authors' summary) 37 #6077

(with Flato, Moshé) On the connection between external and internal symmetries of strongly interacting particles. *J. Mathematical Phys.* 7 (1966), 1932-1958. (L. O'Raifeartaigh) 35 #6418

(with Flato, M.) Local representations and mass spectrum. *Phys. Rev. Lett.* 16 (1966), 1185-1186. (H. Ezawa) 37 #2499

Croissance hors des singularités de séries de Dirichlet, et applications. *J. Analyse Math.* 20 (1967), 119-146. (E. Hille) 36 #365

Extensions et unifications d'algèbres de Lie. *J. Math. Pures Appl.* (9) 47 (1968), 247-287. (G. Leger) 38 #3311

(with Flato, Moshé) On an infinite-dimensional group. *Comm. Math. Phys.* 14 (1969), 5-12. (J. Rosen) 40 #2290

(with Flato, Moshe; Simon, Jacques) Conformal covariance of field equations. *Ann. Physics* 61 (1970), 78-97. (S. N. Biswas) 43 #1524

(with Flato, Moshe; Guillot, Jean-Claude) Sur les représentations de l'algèbre de Lie de Poincaré. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A914-A917. (J. Rosen) 41 #3008

(with Flato, Moshé; Nagel, Bengt) Flots ergodiques et mesures complexes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A892-A895. (A. S. Gleit) 43 #3418

Sternheimer, Joël

(with Flato, Moshé) Sur les formules de masses fortes et électromagnétiques des particules élémentaires. *C. R. Acad. Sci. Paris* 259 (1964), 3455-3458. (PA 68 #5189) 32 #3606

Sternhell, Charles M.

General boundary-value problems for elliptic equations in a region whose boundary consists of manifolds of different dimension. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 992-994. (R. T. Seeley) 30 #340

Sternin, B. Ju.

General boundary problems for elliptic equations in a region whose boundary is formed of manifolds of various dimensions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 2, 16-21. (R. T. Seeley) 32 #4377

(with Novikov, S. P.) Traces of elliptic operators on submanifolds and *K*-theory. *Dokl. Akad. Nauk SSSR* 170 (1966), 1265-1268 *(Russian); translated as Soviet Math. Dokl.* 7 (1966), 1373-1376. (Authors' summary (RŽMat 1967 #3 A328)) 36 #4584

(with Novikov, S. P.) Elliptic operators and submanifolds. *Dokl. Akad. Nauk SSSR* 171 (1966), 525-528 *(Russian); translated as Soviet Math. Dokl.* 7 (1966), 1508-1512. (J. Eells) 36 #4585

Elliptic and parabolic problems on manifolds with a boundary consisting of components of different dimension. (Russian) *Trudy Moskov. Mat. Obšč.* 15 (1966), 346-382. (J. Peetre) 35 #1947

Elliptic (co)boundary morphisms. *Dokl. Akad. Nauk SSSR* 172 (1967), 44-47 *(Russian); translated as Soviet Math. Dokl.* 8 (1967), 41-45. (M. F. Atiyah) 36 #549

S. L. Sobolev type elliptic problems for submanifolds with point singularities. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 782-785. (H. Marcinkowska) 39 #4518

S. L. Sobolev type problems in the case of submanifolds with multidimensional singularities. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 732-735. (H. Marcinkowska) 41 #5764

Quasielliptic equations in an infinite cylinder. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 1025-1028. (P. Szeptycki) 42 #6414

Sternling, C. V.

(with Scriven, L. E.) On cellular convection driven by surface-tension gradients: Effects of mean surface tension and surface viscosity. *J. Fluid Mech.* 19 (1964), 321-340. (W. Langlois) 29 #1842

Sterz, Ulrich

(with Herrmann, Manfred) Über Obstruktionen bei Spezialisierungserweiterungen. *Math. Ann.* 182 (1969), 263-272. (Y. Nakai) 42 #1829

(with Herrmann, Manfred) Zur Bestimmung von Spezialisierungsmultiplizitäten bei ebenen Berührungsproblemen. *Math. Nachr.* 39 (1969), 325-344. (D. Kirby) 41 #3471

Stęślicka, M.

(with Davison, S. G.) Boundary conditions for the relativistic Kronig-Penney model. *Phys. Rev. B* (3) 1 (1970), 1858-1860. (F. C. Auluck) 42 #1458

Stetkaer-Hansen, Henrik

A generalization of a theorem of Wienholtz concerning essential selfadjointness of singular elliptic operators. *Math. Scand.* 19 (1966), 108-112. (R. E. L. Turner) 36 #520

Stetter, Franz

Ableitungsfreie Schranken für die numerische Integration. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 257-262. (F. Stenger) 37 #3761

Eine Fehlerabschätzung für das Runge-Kutta-Verfahren der Ordnung 4. *Math. Z.* 97 (1967), 229-237. (H.-O. Kreiss) 35 #1219

(with Zeller, K.) Fehleruntersuchungen für das gewöhnliche Runge-Kutta-Verfahren. *Math. Z.* 98 (1967), 179-184. (R. F. Albrecht) 35 #6372

Error bounds for Gauss-Chebyshev quadrature. *Math. Comp.* 22 (1968), 657-659. (Walter Gautschi) 37 #3763

On a generalization of the midpoint rule. *Math. Comp.* 22 (1968), 661-663. 37 #2449

Optimale Runge-Kutta-Verfahren der Ordnung 2 und 3. *Monatsh. Math.* 72 (1968), 239-244. (H.-O. Kreiss) 37 #3762

On best quadrature of analytic functions. *Quart. Appl. Math.* 27 (1969), 270-272. (R. E. Barnhill) 40 #1033

Stetter, Hans J.

Maximum bounds for the solutions of initial value problems for partial difference equations. *Numer. Math.* 5 (1963), 399-424. (M. Lees) 29 #6643

(with Törnig, W.) General multistep finite difference methods for the solution of $u_{xy} = f(x,y,u,u_x,u_y)$. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 281-298. (M. Lees) 29 #6644

The L_2-norm in the study of error propagation in initial value problems. *Apl. Mat.* 10 (1965), 308-311. (M. Lees) 32 #604

A study of strong and weak stability in discretization algorithms. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 265-280. (D. F. Mayers) 32 #4859

Stabilizing predictors for weakly unstable correctors. *Math. Comp.* 19 (1965), 84-89. (G. Dahlquist) 31 #2833

Asymptotic expansions for the error of discretization algorithms for non-linear functional equations. *Numer. Math.* 7 (1965), 18-31. (J. Stoer) 30 #5505

Stability of nonlinear discretization algorithms. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland,* 1965*), pp.* 111-123. *Academic Press, New York,* 1966. (H.-O. Kreiss) 34 #5322

Numerical approximation of Fourier-transforms. *Numer. Math.* 8 (1966), 235-249. (M. P. S. Madan) 33 #6870

Stabilitätsbereiche bei Diskretisierungsverfahren für Systeme gewöhnlicher Differentialgleichungen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 157-167. *Birkhäuser, Basel,* 1968. (O. Widlund) 42 #1344

Richardson-extrapolation and optimal estimation. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 187-190. (M. Lotkin) 37 #6009

Improved absolute stability of predictor-corrector schemes. (German summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 286-296. (Author's summary) 39 #1122

Instability and non-monotonicity phenomena in discretizations to boundary-value problems. *Numer. Math.* 12 (1968), 139-145. (V. Šeda) 38 #4043

Steudel, Heinz

Invariance groups and conservation laws in linear field theories. *Nuovo Cimento* (10) 39 (1965), 395-397. (T. W. B. Kibble) 33 #2180

Die Struktur der Invarianzgruppe für lineare Feldtheorien. (English summary) *Z. Naturforsch.* 21a (1966), 1826-1828. (T. W. B. Kibble) 34 #7151

Steuermann, E. J. See Štaerman, I. Ja.

Šteuermann, I. J. See Štaerman, I. Ja.

Steutel, F. W.

Note on the infinite divisibility of exponential mixtures. *Ann. Math. Statist.* 38 (1967), 1303-1305. (H. Bergström) 35 #6180

(with Schurer, Frans) On linear positive operators of the Jackson type. *Mathematica (Cluj)* 9(32) (1967), 155-184. (P. C. Sikkema) 36 #583

Random division of an interval. *Statistica Neerlandica* 21 (1967), 231-244. (From the author's summary) 36 #4605

A class of infinitely divisible mixtures. *Ann. Math. Statist.* 39 (1968), 1153-1157. (H. Bergström) 37 #4851

Infinitely divisible renewal distributions. *Ann. Math. Statist.* 40 (1969), 1109-1113. (D. S. Adorno) 39 #4904

Note on completely monotone densities. *Ann. Math. Statist.* 40 (1969), 1130-1131. (R. V. Hogg) 40 #8156

* Preservation of infinite divisibility under mixing and related topics. Mathematical Centre Tracts, 33. *Mathematisch Centrum, Amsterdam,* 1970. v + 99 *pp.* (H. Bergström) 43 #4085

Stevens, D. C.

The average number of real zeros of a random polynomial. *Comm. Pure Appl. Math.* 22 (1969), 457-477. (M. C. Wunderlich) 40 #4234

Stevens, Harlan

Kummer's congruences of a second kind. *Math. Z.* 79 (1962), 180-192. (H. Salié (Zbl 106, 32)) 29 #5809

Linear homogeneous equations over finite rings. *Canad. J. Math.* 16 (1964), 532-538. (L. Carlitz) 29 #56

(with Kuty, Larry) Applications of an elementary theorem to number theory. *Arch. Math. (Basel)* 19 (1968), 37-42. (L. Carlitz) 36 #6389

Generalizations of the Euler ϕ-function. *Duke Math. J.* 38 (1971), 181-186. (W. Ljunggren) 43 #4783

Stevens, K. W. H.

(with Toombs, G. A.) Green functions in solid state physics. *Proc. Phys. Soc.* 85 (1965), 1307-1308. (K. Kumar) 31 #3182

Stevens, Karl K.

On linear ordinary differential equations with periodic coefficients. *SIAM J. Appl. Math.* 14 (1966), 782-795. (R. A. Struble) 34 #4627

Stevens, Robert R.

Metrically generated probabilistic metric spaces. *Fund. Math.* 61 (1967/68), 259-269. (B. Schweizer) 40 #3592

On the forced Liénard equation. *Canad. Math. Bull.* 12 (1969), 79-84. (W. S. Loud) 39 #1741

The generation of oscillatory functions. *Arch. Math. (Basel)* 21 (1970), 198-200. (M. Rama Mohana Rao) 42 #8004

A conjugacy criterion. *Proc. Amer. Math. Soc.* 33 (1972), 75-80. (H. A. DeKleine) 44 #7047

Stevenson, Charles L.

If-iculties. *Philos. Sci.* 37 (1970), 27-49. (H. Freudenthal) 44 #8

Stevenson, Frederick W.

(with Thron, W. J.) Results on ω_μ-metric spaces. *Fund. Math.* 65 (1969), 317-324. (V. S. Krishnan) 40 #866

The collineation group of the Veblen-Wedderburn plane of order nine. *Canad. J. Math.* 22 (1970), 967-973. (J. André) 42 #3672

Stevin, Simon

(See Simon Stevin, The principal works of, 34 #1141 and ***De Thiende*** von Simon Stevin, 33 #5424)

* De Thiende (1585). (Dutch) [On decimals (1585)] Facsimile, with an introduction by A. J. E. M. Smeur. Dutch Classics on History of Science, Vol. XV. *B. De Graaf, Nieuwkoop,* 1965. 35 *pp.* + 37 *pp. (1 plate)* (C. J. Scriba) 33 #5425

Steward, Dale F.

(with Wall, Edward T.) A matrix transformation for the direct generation of Liapunov state functions. *Acta Tech. ČSAV* 14 (1969), 667-682. (T. Zolezzi) 42 #7328

Steward, Donald V.

Partitioning and tearing systems of equations. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 345-365. (H. H. Harman (CR 7 #10120)) 36 #2307

Stewart, A. G. R.

On the class of certain nilpotent groups. *Proc. Roy. Soc. Ser. A* 292 (1966), 374-379. (B. Chang) 33 #5738

On centre-extended-by-metabelian groups. *Math. Ann.* 185 (1970), 285-302. (D. E. Cohen) 41 #6945

Stewart, B. M.

* Theory of numbers. Second edition. *The Macmillan Co., New York: Collier-Macmillan Ltd., London,* 1964. xiv + 383 *pp.* (Editors) 37 #6232

(with Goldberg, Michael) A dissection problem for sets of polygons. *Amer. Math. Monthly* 71 (1964), 1077-1095. (S. W. Golomb) 30 #508

(with Webb, W. A.) Sums of fractions with bounded numerators. *Canad. J. Math.* 18 (1966), 999-1003. (Werner G. H. Schaal) 33 #7297

Magic graphs. *Canad. J. Math.* 18 (1966), 1031-1059. (W. T. Tutte) 33 #5523

Supermagic complete graphs. *Canad. J. Math.* 19 (1967), 427-438. (W. T. Tutte) 35 #83

On a theorem of Nordhaus and Gaddum. *J. Combinatorial Theory* 6 (1969), 217-218. (From the author's introduction) 43 #104

* Adventures among the toroids. Number One Tall Search Book. *Published by the author,* 4494 *Wausau Road, Okemos, Mich.,* 1970. 206 *pp.* (H. S. M. Coxeter) 43 #1023

(with Herzog, Fritz) Patterns of visible and nonvisible lattice points. *Amer. Math. Monthly* 78 (1971), 487-496. (G. Greaves) 44 #1630

(with Nordhaus, E. A.; White, A. T.) On the maximum genus of a graph. *J. Combinatorial Theory Ser. B* 11 (1971), 258-267. (K. Wagner) 44 #3922

Stewart, Charles

(with Folks, John Leroy; Pierce, Donald A.) Estimating the fraction of acceptable product. *Technometrics* 7 (1965), 43-50. (Authors' summary) 30 #4371

Stewart, D. G.

Cellular subsets of the 3-sphere. *Trans. Amer. Math. Soc.* 114 (1965), 10-22. (R. H. Rosen) 30 #3457

On unions of cellular sets. *Topology Conference (Arizona State Univ., Tempe, Ariz.,* 1967*), pp.* 262-264. *Arizona State Univ., Tempe, Ariz.,* 1968. (L. O. Cannon) 38 #6566

Stewart, D. J.

(See Automaton theory and learning systems, 36 #7442)

A note on a cellularity theorem by Doyle. *Proc. Amer. Math. Soc.* 18 (1967), 1076-1077. (C. E. Burgess) 37 #3547

(with Anderson, B. A.) T_1-complements of T_1 topologies. *Proc. Amer. Math. Soc.* 23 (1969), 77-81. (Anne K. Steiner) 39 #6240

Stewart, G. W., III

A modification of Davidon's minimization method to accept difference approximations of derivatives. *J. Assoc. Comput. Mach.* 14 (1967), 72-83. (K. Ritter) 35 #7566

A generalization of a theorem of Fan on Gershgorin disks. *Numer. Math.* 10 (1967), 162. (Y. Lehrer-Ilamed) 36 #189

(with Lick, Dale W.) Numerical solution of a thin plate heat transfer problem. *Comm. ACM* 11 (1968), 639-641. (Authors' summary) 39 #2356

(with Householder, A. S.) Bigradients, Hankel determinants, and the Padé table. *Constructive Aspects of the Fundamental Theorem of Algebra (Proc. Sympos., Zürich-Rüschlikon,* 1967*), pp.* 131-150. *Wiley-Interscience, New York,* 1969. (J. F. Traub) 42 #1312

On Lehmer's method for finding the zeros of a polynomial. *Math. Comp.* 23 (1969), 829-835. (G. Berman) 42 #1331

PL/*I* program for "On Lehmer's method for finding the zeros of a polynomial". *Math. Comp.* 23 (1969), *no.* 108, *loose microfiche suppl.* D1-D7. (G. Berman) 42 #1332

Accelerating the orthogonal iteration for the eigenvectors of a Hermitian matrix. *Numer. Math.* 13 (1969), 362-376. (L. Collatz) 40 #2225

Some iterations for factoring a polynomial. *Numer. Math.* 13 (1969), 458-470. (J. F. Traub) 40 #3711

(with Householder, A. S.) Comments on: "Some iterations for factoring a polynomial". *Numer. Math.* 13 (1969), 470-471. (J. F. Traub) 40 #3712

On the continuity of the generalized inverse. *SIAM J. Appl. Math.* 17 (1969), 33-45. (M. Pearl) 39 #6889

On Samelson's iteration for factoring polynomials. *Numer. Math.* 15 (1970), 306-314. (W. M. Kincaid) 43 #1414

On the convergence of Sebastião e Silva's method for finding a zero of a polynomial. *SIAM Rev.* 12 (1970), 458-460. (J. W. Daniel) 41 #7838

(with Householder, A. S.) The numerical factorization of a polynomial. *SIAM Rev.* 13 (1971), 38-46. (W. J. Kotzé) 44 #3485

Stewart, I. N.

The minimal condition for subideals of Lie algebras. *Math. Z.* 111 (1969), 301-310. (K.-H. Helwig) 40 #4324

* Lie algebras. Lecture Notes in Mathematics, Vol. 127. *Springer-Verlag, Berlin-New York,* 1970. iv + 97 *pp.* (B. Kolman) 41 #8483

An algebraic treatment of Mal'cev's theorems concerning nilpotent Lie groups and their Lie algebras. *Compositio Math.* 22 (1970), 289-312. (D.-N. Verma) 44 #5356

Infinite-dimensional Lie algebras in the spirit of infinite group theory. *Compositio Math.* 22 (1970), 313-331. (D.-N. Verma) 44 #5357

A property of locally finite Lie algebras. *J. London Math. Soc.* (2) 3 (1971), 334-340. (B. Kolman) 44 #1709

Bounds for the dimensions of certain Lie algebras. *J. London Math. Soc.* (2) 3 (1971), 731-732. (T. S. Ravisankar) 44 #4060.

Structure theorems for a class of locally finite Lie algebras. *Proc. London Math. Soc.* (3) 24 (1972), 79-100. (E. I. Marshall) 44 #6780

Stewart, J. M.

(with MacCallum, M. A. H.; Schmidt, B. G.) Anisotropic stresses in homogeneous cosmologies. *Comm. Math. Phys.* 17 (1970), 343-347. (Lincoln E. Bragg) 43 #1589

Stewart, James

Unbounded positive definite functions. *Canad. J. Math.* 21 (1969), 1309-1318. (D. E. Ramirez) 40 #4689

Stewart, K. L.

(See Saul'ev, V. K., 33 #6153 and Položiĭ, G. N., 37 #6043)

Stewart, M. James

(with Chartrand, Gary) Total digraphs. *Canad. Math. Bull.* 9 (1966), 171-176. (F. Harary) 34 #82

(with Chartrand, Gary) The connectivity of line-graphs. *Math. Ann.* 182 (1969), 170-174. (L. W. Beineke) 43 #3161

(with Chartrand, Gary) Isometric graphs. *Recent Trends in Graph Theory (Proc. Conf., New York,* 1970*), pp.* 63-67. *Lecture Notes in Mathematics, Vol.* 186. *Springer, Berlin,* 1971. (A. T. White) 44 #102

Stewart, Neil-Frederick

Certain equivalent requirements of approximate solutions of $x' = f(t,x)$. *SIAM J. Numer. Anal.* 7 (1970), 256-270. (W. H. Enright) 43 #1437

Stewart, Patrick N.

Semi-simple radical classes. *Pacific J. Math.* 32 (1970), 249-254. (E. P. Armendariz) 41 #254

Divinsky's radical. *Proc. Amer. Math. Soc.* 31 (1972), 347-353. (A. G. Heinicke) 44 #4030

Stewartson, Keith

The theory of unsteady laminar boundary layers. *Advances in Applied Mechanics, Vol.* 6, *pp.* 1-37. *Academic Press, New York-London,* 1960. (M. Sichel) 33 #3567

Falkner-Skan equation for wakes. *AIAA J.* 2 (1964), 1327-1328. (M. G. Hall) 29 #5474

(with Wilson, D. H.) Dual solutions of the Greenspan-Carrier equations. II. *J. Fluid Mech.* 18 (1964), 337-349. (K. M. Ghosh) 29 #3104

Viscous hypersonic flow past a slender cone. *Phys. Fluids* 7 (1964), 667-675. (W. O. Criminale, Jr.) 29 #861

(with Hunt, J. C. R.) Magnetohydrodynamic flow in rectangular ducts. II. *J. Fluid Mech.* 23 (1965), 563-581. (S. A. Berger) 32 #8660

(with Brown, S. N.) On similarity solutions of the boundary-layer equations with algebraic decay. *J. Fluid Mech.* 23 (1965), 673-687. (J. C. Cooke) 32 #6799

On magnetic boundary layers. *J. Inst. Math. Appl.* 1 (1965), 29-41. (R. R. Gold) 31 #5439

(with Roberts, P. H.) On the motion of a liquid in a spheroidal cavity of a precessing rigid body. II. *Proc. Cambridge Philos. Soc.* 61 (1965), 279-288. (W. R. Sears) 30 #3650

(with Catherall, D.; Williams, P. G.) Viscous flow past a flat plate with uniform injection. *Proc. Roy. Soc. Ser. A* 284 (1965), 370-396. (O. R. Burggraf) 30 #5600

(with Brown, S. N.) On the reversed flow solutions of the Falkner-Skan equation. *Mathematika* 13 (1966), 1-6. (I. Flügge-Lotz) 34 #3858

(with O'Neill, M. E.) On the slow motion of a sphere parallel to a nearby plane wall. *J. Fluid Mech.* 27 (1967), 705-724. (A. F. Messiter) 35 #1268

On an integral equation. *Mathematika* 15 (1968), 22-29. (H. E. Fettis) 37 #4519

Steyaert, Herman

On Sheppard's corrections for grouping. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 1367-1372. (Author's summary) 43 #4165

Steyn, H. S.

(with Roux, J. J. J.) On regression and scedastic equations. *South African Statist. J.* 4 (1970), 41-56. 43 #1338

Stichel, P.

Bethe-Salpeter structure of the non-relativistic three-nucleon problem. *Nuclear Phys.* 52 (1964), 189-212. (B. P. Nigam) 29 #930

Closed-shell effects on the cluster singularities of the nucleon-nucleus vertex part. *Nuovo Cimento* (10) 31 (1964), 250-254. (E. Ferrari) 31 #4478

Single pion production by linearly polarized photons at high energies. *Z. Physik* 180 (1964), 170-173. (H. W. Lewis) 32 #3627

Photoerzeugung von π-Mesonen. *Fortschr. Physik* 13 (1965), 73-136. (R. F. Peierls) 31 #5561

On the validity of Ward identities. *Comm. Math. Phys.* 18 (1970), 275-290. (P. W. Higgs) 42 #8823

Stickforth, J.

Zur Anwendung des Castiglianoschen Prinzips und der Beltramischen Spannungsfunktionen bei mehrfach zusammenhängenden elastischen Körpern unter Berücksichtigung von Eigenspannungen. *Tech. Mitt. Krupp Forsch.-Ber.* 22 (1964), 83-92. (G. Rieder) 31 #5377

On the derivation of the conditions of compatibility from Castigliano's principle by means of three-dimensional stress functions. *J. Math. and Phys.* 44 (1965), 214-226. (G. Rieder) 32 #636

Stickler, David C.

Bounds for the solution of the linear self-adjoint second order differential equation. *J. Math. Anal. Appl.* 10 (1965), 419-423. (H. C. Howard) 31 #432

Stidham, Shaler, Jr.

On the optimality of single-server queueing systems. *Operations Res.* 18 (1970), 708-732. (P. E. Ney) 42 #2568

Stiefel, Eduard L.

(with Bauer, F. L.; Rutishauser, H.) New aspects in numerical quadrature. *Proc. Sympos. Appl. Math., Vol. XV, pp. 199-218. Amer. Math. Soc., Providence, R. I.,* 1963. (S. Haber) 30 #4384

* An introduction to numerical mathematics. Translated by Werner C. Rheinboldt and Cornilie J. Rheinboldt. *Academic Press, New York-London,* 1963. x + 286 *pp.* (Editors) 31 #5306

Die Renaissance der Himmelsmechanik. *Elem. Math.* 19 (1964), 97-106. (D. Brouwer) 31 #5666

Methods—old and new—for solving the Tchebycheff approximation problem. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 1 (1964), 164-176. (J. R. Rice) 31 #1764

* Einführung in die numerische Mathematik. Dritte, erweiterte Auflage. Leitfäden der angewandten Mathematik und Mechanik, Band 2. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1965. 257 *pp.* (Editors) 32 #6641

Phase methods for polynomial approximation. *Approximation of Functions (Proc. Sympos. General Motors Res. Lab.,* 1964), *pp.* 68-82. *Elsevier Publ. Co., Amsterdam,* 1965. (C. W. Clenshaw) 32 #8004

(with Waldvogel, Jörg) Problème restreint des trois corps. Généralisation de la régularisation de Birkhoff pour le mouvement du mobile dans l'espace à trois dimensions. *C. R. Acad. Sci. Paris* 260 (1965), [illegible] (E. Leimanis) 30 #4572

(with Kustaanheimo, P.) Perturbation theory of Kepler motion based on spinor regularization. *J. Reine Angew. Math.* 218 (1965), 204-219. (V. Szebehely) 31 #4584

Neuere numerische Methoden in der Himmelsmechanik. *Nordisk Tidskr. Informations-Behandling* 5 (1965), 51-60. (Wilfred Kaplan) 32 #3813

(See also Mathematische Methoden der Himmelsmechanik und Astronautik, 34 #3979)

* Introduction à la mathématique numérique. Traduit de l'allemand par Monique Delchambre, Henri Bastin et Paul Janssens. *Dunod, Paris,* 1967. xii + 305 *pp.* (Editors) 36 #4775

(See also Schwarz, H. R., 41 #9427)

(with Scheifele, Gerhard) Régularisation du mouvement képlerien perturbé dans l'espace à trois dimensions par une transformation canonique généralisée. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A950-A953. (V. Szebehely) 39 #6556

* Einführung in die numerische Mathematik. Vierte durchgesehene Auflage. Leitfäden der angewandten Mathematik und Mechanik, Band 2. *B. G. Teubner, Stuttgart,* 1969. 257 *pp.* (Editors) 40 #2209

(with Bettis, D. G.) Stabilization of Cowell's method. *Numer. Math.* 13 (1969), 154-175. (C. C. Conley) 41 #7855

Remarks on numerical integration of Keplerian orbits. *Celestial Mech.* 2 (1970), *no.* 3, 274-281. (V. Szebehely) 44 #1283

Stiegler, Karl Drago

Newtons Lösung des Problems der Bestimmung der Krümmung einer ebenen Kurve mit Hilfe seiner Fluxionsrechnung. *Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte (Festschrift für Kurt Vogel), pp.* 167-174. *Forschungsinst. Deutsch. Museums Gesch. Naturwissensch. Tech., Munich,* 1968. (J. A. Lohne) 39 #2584

Einige Probleme der Elastizitätstheorie im 17. Jahrhundert. *Janus* 56 (1969), 107-122. (M. Kline) 42 #17

On some fundamental geometrical consequences of the ***Theoria philosophiae naturalis*** of Rogerius Boscovich. *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris,* 1968), *Tome IV: Histoire des Mathématiques et de la Mécanique, pp.* 159-164. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (C. B. Boyer) 44 #2555

Stieglitz, Michael

* Permanenzsätze für ein zeileninfinites Matrixverfahren zur Limitierung von Doppelfolgen. Von der Technischen Hochschule Stuttgart zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart,* 1966. 90 *pp.* (L. Hoischen) 36 #4196

Permanenzsätze für zeileninfinite Matrixverfahren zur Limitierung von Doppelfolgen. *Math. Z.* 106 (1968), 55-66. (D. L. Prullage) 38 #455

Über restringierte Limitierung konvergenter Doppelfolgen durch die Kreisverfahren der Limitierungstheorie. *Arch. Math. (Basel)* 20 (1969), 413-422. (D. L. Prullage) 40 #3122

Über ausgezeichnete Tauber-Matrizen. *Arch. Math. (Brno)* 5 (1969), 227-233. (S. L. Segal) 44 #3051

Ein Taubersatz für die Kreisverfahren der Limitierungstheorie bei Doppelfolgen. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 1-2, 79-86. (S. L. Segal) 42 #4918

Über die Limitierbarkeit unbeschränkter Doppelfolgen. *Studia Math.* 34 (1970), 177-182. (W. Beekmann) 41 #2254

Die allgemeine Form der *O*-Tauber-Bedingung für das Euler-Knopp- und Borel-Verfahren. *J. Reine Angew. Math.* 246 (1971), 172-179. (D. Gaier) 42 #8132

Stiel, Edsel F.

Isometric immersions of manifolds of nonnegative constant sectional curvature. *Pacific J. Math.* 15 (1965), 1415-1419. (N. H. Kuiper) 32 #6375

On immersions with singular second fundamental form operators. *Proc. Amer. Math. Soc.* 17 (1966), 699-702. (N. H. Kuiper) 33 #6557

Immersions into manifolds of constant negative curvature. *Proc. Amer. Math. Soc.* 18 (1967), 713-715. (A. Gray) 35 #3609

Stiepanienko, I. Z. See Stepanenko, I. Z.

Stier, Gunther

Konform-geometrische Behandlung der Differentialgleichung $\psi''(v) - \wp'(v)(\quad(v) - \hat{e})^{-1}\psi'(v) + [(1/4 - \sigma^2)\quad(v) + \beta]\psi(v) = 0.$ *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 391-399. (Z. Nehari) 40 #5841

Stifel, Michael

(See Hofmann, Joseph E., 39 #17)

Stiffler, Jack J.

Comma-free error-correcting codes. *IEEE Trans. Information Theory* IT-11 (1965), 107-112. (G. Solomon) 32 #5454

(with Solomon, G.) Algebraically punctured cyclic codes. *Information and Control* 8 (1965), 170-179. (H. F. Mattson) 30 #5847

Rapid acquisition sequences. *IEEE Trans. Information Theory* IT-14 (1968), 221-225. (Editors) 40 #2436

Stigler, Stephen Mack

Linear functions of order statistics. *Ann. Math. Statist.* 40 (1969), 770-788. (R. Barlow) 41 #9413

The use of random allocation for the control of selection bias. *Biometrika* 56 (1969), 553-560. (M. J. Karson) 43 #5661

Estimating the age of a Galton-Watson branching process. *Biometrika* 57 (1970), 505-512. (E. Seneta) 43 #4208

Stiglitz, Irvin G.

Coding for a class of unknown channels. *IEEE Trans. Information Theory* IT-12 (1966), 189-195. (L.-H. Zetterberg) 34 #7281

Stigum, Bernt P.

A theorem on the Galton-Watson process. *Ann. Math. Statist.* 37 (1966), 695-698. (P. E. Ney) 33 #4996

(with Kesten, H.) A limit theorem for multidimensional Galton-Watson processes. *Ann. Math. Statist.* 37 (1966), 1211-1223. (I. J. Good) 33 #6707

(with Kesten, H.) Additional limit theorems for indecomposable multi-dimensional Galton-Watson processes. *Ann. Math. Statist.* 37 (1966), 1463-1481. (I. J. Good) 34 #864

A decision theoretic approach to time series analysis. *Ann. Inst. Statist. Math.* 19 (1967), 207-243. (D. R. Brillinger) 36 #3485

(with Kesten, H.) Limit theorems for decomposable multi-dimensional Galton-Watson processes. *J. Math. Anal. Appl.* 17 (1967), 309-338. (Simeon M. Berman) 34 #5169

Stihi, E. E.

Geometric models of some tensors in affine space. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Ser. Mec.* 4 (1960), 9-16. (Author's summary) 32 #1629

Reducible and irreducible tensors in an affine space. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Ser. Mec.* 4 (1960), 31-33. (Author's summary) 32 #1630

On free algebras. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Fac. Mec.* 5 (1962), 11-13. (Author's summary) 32 #1223

(with Mangeron, D.) New functional equations in the theory of dynamic programming. (Romanian. Russian and English summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Fac. Mec.* 6 (1964), 13-21. (G. P. Szegö) 32 #9110

Infinite sets. (Romanian. French, German and Russian summaries) *Lucrăr. Şti. Inst. Politehn. Braşov* 7 (1965), 15-19. (Author's summary) 33 #6568

Stihi, M.

(with Ciulli, S.; Ghika, Gr.) Regge poles in the presence of a hard core. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 955-970. (J. W. Moffat) 29 #1920

(with Velculescu, V.-G. A.) Regge poles in the theory of potentials. I. Analytic properties of *S*-matrices in the *k*-plane. (Romanian) *Stud. Cerc. Fiz.* 17 (1965), 71-100. (E. Predazzi) 32 #6938

(with Velculescu, V.-G. A.) Regge poles in theory of potentials. II. (Romanian) *Stud. Cerc. Fiz.* 17 (1965), 661-693. (E. Predazzi) 32 #6939 (with Vişinescu, M.) Integral equations in the one-channel relativistic case, including CDD poles. (French summary) *Rev. Roumaine Phys.* 11 (1966), 17-29. (R. L. Omnès) 33 #6999

(with Ciulli, S.; Ghika, Gr.; Vişinescu, M.) General solution of the one-channel-scattering singular integral equations. *Phys. Rev.* (2) 154 (1967), 1345-1357. (A. E. Heins) 34 #8740

Stihin, V. N.

A certain infinite-step model of Leont′ev type. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 618-624. (H. Toutenburg) 42 #4180

Stiklakite, L. See Stiklakytê, L.

Stiklakytė, L.

Hypersurfaces of a bilinear-metric projective space. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 517-533 (1968). (V. Havel) 37 #4731

Surfaces in a bilinear-metric projective space. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 9 (1969), 673-686. (I. Vaiaman) 41 #7562

Stiks, T. See Stix, Thomas Howard.

Stiles, Wilbur J.

Closest-point maps and their products. *Nieuw Arch. Wisk.* (3) 13 (1965), 19-29. (I. Halperin) 31 #2601

A solution to Hirschfeld's problem. *Nieuw Arch. Wisk.* (3) 13 (1965), 116-119. (R. A. Hirschfeld) 32 #6195

Closest-point maps and their products. II. *Nieuw Arch. Wisk.* (3) 13 (1965), 212-225. (I. Halperin) 32 #8119

A remark on the intersection of shells. *Proc. Amer. Math. Soc.* 19 (1968), 831-833. (Bor-Luh Lin) 37 #4573

On inversions in normed linear spaces. *Proc. Amer. Math. Soc.* 20 (1969), 505-508. (L. M. Kelly) 38 #3718

On subseries convergence in *F*-spaces. *Israel J. Math.* 8 (1970), 53-56. (J. T. Marti) 41 #7405

On properties of subspaces of l_p, $0 < p < 1$. *Trans. Amer. Math. Soc.* 149 (1970), 405-415. (J. T. Marti) 41 #5930

Stillinger, Frank H., Jr.

Ising-model reformulation. I. Fundamentals. *Phys. Rev.* (2) 135 (1964), A1646-A1661. (A. Lenard) 30 #2881

(with Salsburg, Zevi W.; Kornegay, Robert L.) Rigid disks at high density. *J. Chem. Phys.* 43 (1965), 932-943. (W. G. Hoover) 32 #2139

Ising-model reformulation. II. Relation to the random-external-field method. *Phys. Rev.* (2) 138 (1965), A1174-A1181. (C. A. Hurst) 32 #7109

(with Salsburg, Zevi W.) Limiting polytope geometry for rigid rods, disks, and spheres. *J. Statist. Phys.* 1 (1969), 179-225. (Authors' summary) 40 #3861

Štil′man, M. S.

(with Gorelik, V. A.) On a method of solving a network transportation problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1137-1142. (P. L. Ivănescu) 30 #2916

The number of invariant measures with maximal entropy for a shift in a sequence space. (Russian) *Mat. Zametki* 9 (1971), 291-302. (W. Szlenk) 43 #7592

Stimberg, Claus

* Runge-Kutta-Verfahren zur numerischen Behandlung von Anfangswertproblemen bei partiellen hyperbolischen Differentialgleichungen. Von der Mathematisch-Naturwissenschaftlichen Fakultät der Rheinisch-Westfälischen Technischen Hochschule Aachen zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften genehmigte Dissertation. *Technische Hochschule Aachen, Aachen,* 1966. vii + 152 *pp.* (W. G. Strang) 36 #7351

(with Filippi, S.) Explizite Runge-Kutta-Verfahren für partielle hyperbolische Differentialgleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 105-119. (P. Laasonen) 36 #4829

(with Filippi, S.) Untersuchungen über den globalen Diskretisierungsfehler bei Runge-Kutta-Verfahren für partielle hyperbolische Differentialgleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 322-331. (Authors' summary) 36 #6162

Stinespring, W. Forrest

(with Shale, David) States of the Clifford algebra. *Ann. of Math.* (2) 80 (1964), 365-381. (Y. Kato) 29 #3160

(with Shale, David) Spinor representations of infinite orthogonal groups. *J. Math. Mech.* 14 (1965), 315-322. (R. J. Blattner) 30 #3377

(with Shale, David) Continuously splittable distributions in Hilbert space. *Illinois J. Math.* 10 (1966), 574-578. (R. Fischler) 33 #6675

(with Shale, David) Integration over non-Euclidean geometries of infinite dimension. *J. Math. Mech.* 16 (1966), 135-146. (J. Eells) 33 #7485

(with Shale, David) The quantum harmonic oscillator with hyperbolic phase space. *J. Functional Analysis* 1 (1967), 492-502. (A. Kihlberg) 36 #3545

(with Shale, David) Wiener processes. *J. Functional Analysis* 2 (1968), 378-394. (R. M. Dudley) 38 #1734

(with Shale, David) Wiener processes. II. *J. Functional Analysis* 5 (1970), 334-353. (R. M. Dudley) 41 #9352

Stingl, Peter

* (with Mathiak, Karl) Gruppentheorie für Chemiker, Physiko-Chemiker, Mineralogen. *Friedr. Vieweg & Sohn, Braunschweig; Akademische Verlagsgesellschaft, Frankfurt,* 1968. v + 199 *pp.* (Editors) 37 #1141

Stinrod, N. E. See Steenrod, Norman E.

Stipanić, Ernest

On a theorem of T. Šalat and a theorem of E. Cesàro in the theory of series. (Serbo-Croatian. French summary) *Bull. Soc. Math. Phys. Serbie* 11 (1959), 63-68. (Author's summary) 32 #306

Some contributions to the application of a well-known theorem of Dini in the theory of series. (Serbo-Croatian. French summary) *Bull. Soc. Math. Phys. Serbie* 11 (1959), 69-80. (Editors) 32 #304

* Marin Getaldić i njegovo mesto u matematici i naučnom svetu. (Serbo-Croatian) [Marin Getaldić and his place in mathematics and the scientific world] Nauka-Tehnika-Umetnost, 4. Biblioteka Priručne Literature za Nastavnike. *Zavod za Izdavanje Udzbenika, Belgrade,* 1961. 195 *pp. (1 plate; 1 insert)* (J. V. Wehausen) 31 #5777

The linear continuum of R. J. Boscovich. (Serbo-Croatian. French summary) *Mat. Vesnik* 4(19) (1967), 277-292. (T. T. Tonkov) 37 #16

Une contribution à l'étude de l'oeuvre de Getaldić (Ghetaldus) ***De resolutiene et compositione mathematica.*** *Mat. Vesnik* 5(20) (1968), 257-266. (P. Bockstaele) 39 #2585

Structure et systématisation nouvelles du ***De Resolutione et compositione mathematica*** de Getaldić (Ghetaldus) dans l'histoire des mathématiques du XVII^e siècle. *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris, 1968), Tome IV: Histoire des Mathématiques et de la Mécanique,* pp. 165-170. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (F. C. Kreiling) 44 #3821

Stipčević, Zdravko

A generalization of the Hartree method. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 18 (1963), 279-284. (D. ter Haar) 29 #6841

(with Ninan, M. M.) Some relations in the ring with a unit commutator. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 9-17. (M. Djabali) 39 #4202

(with Ninan, M. M.) Two expansion theorems in the ring with a unit anticommutator. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 19-24. (M. Djabali) 39 #4203

Štipel′man, Ja. I.

The places of the sfield $D_{1,0}$. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 4, 95-96. (L. Bokut′) 41 #264

Stippes, Marvin

A representation theorem for biharmonic functions. *J. Math. Anal. Appl.* 22 (1968), 599-601. (Y. Kusunoki) 37 #459

Completeness of the Papkovich potentials. *Quart. Appl. Math.* 26 (1968/69), 477-483. (L. E. Payne) 39 #1158

(with Shadman, D.) Method of orthogonal polynomials in plane theory of elasticity. (Polish and Russian summaries) *Arch. Mech. Stos.* 21 (1969), 17-32. (E. Pinney) 40 #5176

Stiševa, A. G.

(with Popov, V. N.; Stepanov, V. A.; Travnikova, N. A.) A programming program. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 78-95. (P. Constantinescu) 29 #3015

Stitzinger, Ernest L.

A nonimbedding theorem of associative algebras. *Pacific J. Math.* 30 (1969), 529-531. (G. Michler) 40 #7307

On the Frattini subalgebra of a Lie algebra. *J. London Math. Soc.* (2) 2 (1970), 429-438. (T. O. Hawkes) 41 #8484

A note on a class of Lie algebras. *Math. Z.* 116 (1970), 141-142. (S. Moran) 42 #7724

Frattini subalgebras of a class of solvable Lie algebras. *Pacific J. Math.* 34 (1970), 177-182. (E. I. Marshall) 43 #303

A nonembedding theorem for finite groups. *Proc. Amer. Math. Soc.* 25 (1970), 124-126. (B. Chang) 41 #3581

On elementary groups. *Proc. Amer. Math. Soc.* 26 (1970), 236-238. (H. Bechtell) 42 #376

Minimal nonnilpotent solvable Lie algebras. *Proc. Amer. Math. Soc.* 28 (1971), 47-49. (J. Brezin) 42 #6061

Theorems on Cartan subalgebras like some on Carter subgroups. *Trans. Amer. Math. Soc.* 159 (1971), 307-315. (R. W. Carter) 43 #6276

Stix, Thomas Howard

* Теария плазменных волн. (Russian) [The theory of plasma waves] Translated from the English by A. A. Ivanov, L. V. Korablev and G. V. Šolin. *Atomizdat, Moscow,* 1965. 343 *pp.* (Editors) 33 #2101

Stjažkin, N. I.

* Становление идей математической логики. (Russian) [The formation of the ideas of mathematical logic] *Izdat. "Nauka", Moscow,* 1964. 305 *pp.* (G. Asser) 32 #3985

* Формирование математической логики. (Russian) [Formation of mathematical logic] *Izdat. "Nauka", Moscow,* 1967. 508 *pp. (loose errata)* (Editors) 35 #5282

* History of mathematical logic from Leibniz to Peano. Translated from the Russian. *The M.I.T. Press, Cambridge, Mass.-London,* 1969. viii + 333 *pp.* (Editors) 40 #7071

St'juart, A. See Stuart, Alan.

St. Kalitzin, Nikola. See Kalicin, Nikola St.

St. Mary, Donald F.

Some oscillation and comparison theorems for $(r(t)y')' + p(t)y = 0$. *J. Differential Equations* 5 (1969), 314-323. (W. M. Whyburn) 38 #1332

(with Eliason, Stanley B.) Upper bounds of $T\int_{-T/2}^{T/2} p(t)dt$ and the differential equation $x'' + p(t)x = 0$. *J. Differential Equations* 6 (1969), 154-160. (J. S. Bradley) 39 #1742

(with Fink, A. M.) A generalized Sturm comparison theorem and oscillation coefficients. *Monatsh. Math.* 73 (1969), 207-212. (W. R. Utz) 39 #5875

(with Fink, A. M.) On an inequality of Nehari. *Proc. Amer. Math. Soc.* 21 (1969), 640-642. (D. Willett) 39 #1737

Stock, F. T.

(with Mufti, I. H.; Chow, C. K.) Solution of ill-conditioned linear two-point boundary value problems by the Riccati transformation. *SIAM Rev.* 11 (1969), 616-619. (Editors) 40 #6781

Stöckel, Helmut

Beugung am Spalt. II. *Ann. Physik* (7) 16 (1965), 209-219. (I. Kay) 33 #3599

Stöcker, Ralph

Whiteheadgruppe topologischer Räume. *Invent. Math.* 9 (1969/70), 271-278. (M. Arkowitz) 42 #2472

Stockiĭ, È. D.

On descriptive game theory. (Russian) *Problemy Kibernet. No.* 8 (1962), 45-54. (F. M. Stewart) 30 #2945

On the imbedding of finite metrics into a graph. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1203-1206. (H. Sachs) 30 #1503

The restrictions on deduction in grammars of immediate components. (Russian) *Tartu Riikl. Ül. Toimetised Vih.* 226 (1969), 107-111. (I. Kramosil) 43 #6030

Stockmeyer, Paul K.

(with Manvel, B.; Welsh, D. J. A.) On removing a point of a digraph. *Studia Sci. Math. Hungar.* 5 (1970), 299-301. (F. Harary) 44 #2668

Stocks, D. R., Jr.

Lattice paths in E^3 with diagonal steps. *Canad. Math. Bull.* 10 (1967), 653-658. (J. W. Moon) 37 #2621

Stoddard, F. J.

Closed-form solutions for the hypersonic viscous shock layer with finite-rate chemistry. *Proc.* 1963 *Heat Transfer and Fluid Mech. Inst. (Calif. Inst. Tech., Pasadena, Calif.,* 1963*), pp.* 128-145. *Stanford Univ. Press, Stanford, Calif.,* 1963. (H. K. Cheng) 30 #4456

Stoddart, A. W. J.

The shape of level surfaces of harmonic functions in three dimensions. *Michigan Math. J.* 11 (1964), 225-229. (E. F. Beckenbach) 29 #3660

Semicontinuity of integrals. *Trans. Amer. Math. Soc.* 122 (1966), 120-135. (S. Cinquini) 32 #8226

Inequalities for convex functions. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 421-426. (L. C. Young) 37 #2072

Existence of optimal controls. *Pacific J. Math.* 20 (1967), 167-177. (E. B. Lee) 35 #6000

An existence theorem for optimal stochastic programming. *J. Austral. Math. Soc.* 8 (1968), 114-118. (B. Bereanu) 38 #924

Estimation of optimality for multidimensional control systems. *J. Optimization Theory Appl.* 3 (1969), 385-391. (P. L. Falb) 39 #7984

An extension of the Thomson principle. *Proc. Amer. Math. Soc.* 29 (1971), 561-564. (E. F. Beckenbach) 43 #3411

Stoddart, J. C.

The singularities of asymptotic quantum field theory. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1073-1095. (F. R. Halpern) 32 #3557

(with Rohrlich, F.) Microcausality in asymptotic quantum field theory. *J. Mathematical Phys.* 6 (1965), 495-499. (G. Källén) 31 #1931

Stoer, Josef

Duality in nonlinear programming and the minimax theorem. *Numer. Math.* 5 (1963), 371-379. (E. M. L. Beale) 30 #2938

A direct method for Chebyshev approximation by rational functions. *J. Assoc. Comput. Mach.* 11 (1964), 59-69. (G. Meinardus) 29 #1479

A characterization of Hölder norms. *J. Soc. Indust. Appl. Math.* 12 (1964), 634-648. (A. S. Householder) 30 #2676

Über einen Dualitätssatz der nichtlinearen Programmierung. *Numer. Math.* 6 (1964), 55-58. (E. M. L. Beale) 30 #2939

On the characterization of least upper bound norms in matrix space. *Numer. Math.* 6 (1964), 302-314. (W. G. Strang) 29 #5831

(with Bulirsch, Roland) Fehlerabschätzungen und Extrapolation mit rationalen Funktionen bei Verfahren vom Richardson-Typus. *Numer. Math.* 6 (1964), 413-427. (Č. Masaitis) 31 #861

(with Bulirsch, Roland) Numerical treatment of ordinary differential equations by extrapolation methods. *Numer. Math.* 8 (1966), 1-13. (C. Froese) 32 #8504

(with Bulirsch, Roland) Asymptotic upper and lower bounds for results of extrapolation methods. *Numer. Math.* 8 (1966), 93-104. (G. D. Byrne) 33 #5123

Über die Existenz linearer Approximationsoperatoren. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach, 1965), pp.* 55-57. *Birkhäuser, Basel,* 1967. (Bruno Brosowski) 37 #1869

(with Gries, D.) Some results on fields of values of a matrix. *SIAM J. Numer. Anal.* 4 (1967), 283-300. (J. W. Schmidt) 36 #186; erratum, 36, p. 1568

* (with Anđelić, T. P.; Aumann, G.; Bauer, F. L.; Bulirsch, R.; Künzi, H. P.; Rutishauser, H.; Samelson, K.; Sauer, R.) Mathematische Hilfsmittel des Ingenieurs. Teil III. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 141. *Springer-Verlag, Berlin-New York,* 1968. xix + 535 *pp.* (E. Kreyszig) 37 #7115

(with Brosowksi, Bruno) Zur rationalen Tschebyscheff-Approximation differenzierbarer und analytischer Funktionen. (English summary) *Numer. Math.* 12 (1968), 57-65. (E. W. Cheney) 39 #1878

Lower bounds of matrices. *Numer. Math.* 12 (1968), 146-158. (N. Gastinel) 38 #5378

(with Bauer, F. L.; Deutsch, E.) Abschätzungen für die Eigenwerte positiver linearer Operatoren. *Linear Algebra and Appl.* 2 (1969), 275-301. (A. S. Householder) 39 #6893

* (with Witzgall, Christoph) Convexity and optimization in finite dimensions. I. Die Grundlehren der mathematischen Wissenschaften, Band 163. *Springer-Verlag, New York-Berlin,* 1970. ix + 293 *pp.* (B. Bereanu) 44 #3707

Stogniĭ, A. A.

A variant of the design of a computer for the transformation of alphabetized information. (Russian) *Problemy Kibernet. No.* 10 (1963), 151-163. (D. Vaida) 30 #5518

Stogniĭ, A. O.

On an interpolation method of Trefftz. (Ukrainian. Russian summary) *Zbirnik Prac' z Občis. Mat. i Tehn.* 1 (1961), 68-77. (W. V. Petryshyn) 33 #862

Štogrin, M. I.

(with Delone, B. N.; Ryškov, S. S.) On a theorem of Sandakova in the theory of positive quadratic forms. (Russian) *Mat. Zametki* 1 (1967), 253-262. (H. Schwerdtfeger) 35 #846

Regular Dirichlet partitions for the second triclinic group. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 793-796. (E. J. F. Primrose) 38 #5110

(with Delone, B. N.; Dolbilin, N. P.; Ryškov, S. S.) A new construction of the theory of lattice coverings of an n-dimensional space by congruent balls. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 289-298. (W. J. Firey) 42 #1767

Stöhr, Karl-Otto

Dualitäten in der Kategorie der lokal kompakten Moduln über einem Dedekindschen Ring. *J. Reine Angew. Math.* 239/240 (1969), 239-255. (G. Renault) 41 #6833

Štoĭan, G.

Some economical additive schemes for solving boundary value problems for a multidimensional equation of parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 644-653. (M. Zlámal) 44 #2366

Stoianov, N. V. See Stojanov, N. V.

Stoica, Fulga

(with Mangeron, D.; Andricioaie, Gh.) The method of integral equations used in studying polyoscillating equations. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Fac. Mec.* 6 (1964), 23-34. (W. T. Reid) 32 #4500

On convex functions. (Romanian. French summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 17(21) (1971), *fasc.* 1-2, *sect.* 71-74. (B. Crstici) 44 #770

Stoica, Marcel Dragoş

Utilization of vector methods for the study of the compatibility of two algebraic equations of degree n in one unknown. *Stud. Cerc. Mat.* 19 (1967), 1341-1355. (N. Popescu (Zbl 165, 359)) 40 #4247; erratum, 42, p. 1823

Stoicescu, V.

(with Bădin, V.) An application of Markov chains to the control of production quality. (Romanian. English, French and Russian summaries) *Stud. Cerc. Econom.* 1-2 (1969), 159-172. 40 #6948

(with Bădin, V.) Considerations on the multi-index transportation problem for the case of symmetrical constraints. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res.* 1970, *no.* 2, 29-48. (F. Giannessi) 43 #7200

Stoĭčev, L.

(with Pirgov, Dimit"r) Über eine Klasse der irreduzibelen ganzzahligen Polynome. *Bul. Inst. Politehn. Bucureşti* 32 (1970), *no.* 3, 25-30. (L. Carlitz) 43 #1950

Stoichiţă, Radu

La transcription du carré logique en calcul propositionnel. *An. Univ. Bucureşti Ser. Acta Logica* 6 (1963), 145-162. 30 #1923

Der Wahrheitsbegriff, Beziehung der zweiwertigen zur mehrwertigen Logik. *An. Univ. Bucureşti Acta Logica* 11 (1968), 75-83. 43 #4641

(See also Noica, C., 44 #3847)

Stoilov, Simon. See Stoĭlow, Simion.

Stoĭlow, Simion

(See Potential theory, 33 #4295 and Andreian Cazacu, C., 31 #1169)

* Teoria funcţiilor de o variabilă complexă. Vol. I: Noţiuni şi principii fundamentale. (Romanian) [Theory of functions of a complex variable. Vol. I: Fundamental comcepts and principles] *Editura Stat Didact Pedagog, Bucharest,* 1962. 306 *pp.* (Editors) 31 #1361

* Oeuvre mathématique. *Editions de l'Academie de la République Populaire Roumaine, Bucharest,* 1964. xix + 416 *pp.* (A. J. Lohwater) 29 #5698

* Лекции о топологических принципах теории аналитических функций. (Russian) [Lectures on topological principles of the theory of analytic functions] Translated from the French by E. T. Stečkina. With a foreword by. B. V. Šabat. *Izdat. "Nauk", Moscow,* 1964. 227 *pp.* (Editors) 32 #5899

Stoitschew, L. See Stoĭčev, L.

Stojaković, Mirko D.

A note on the general solution of the Riccati differential equation. *Mat. Vesnik* 1(16) (1964), 162-164. (F. M. Stein) 33 #322

Mihajlo Petrović (1868-1943)--Serbian mathematician--Creative orginality and versatile personality. (Serbo-Croatian summary) *Godišnjak Filozof. Fak. u Novom Sadu No.* 8 (1964/65), 371-373. (Editors) 40 #7079

Inversion of matrices appearing in the application of the method of least squares. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 911-915. (A. S. Householder) 29 #5376

Sur l'algèbre distantielle. *Mat. Vesnik* 2(17) (1965), 179-185. (R. Cohn) 34 #6362

Matrix inversion in the theory of synthesis in the domain of automatic devices. (Serbo-Croatian. German summary) *Acad. Serbe Sci. Arts Glas* 263 (1966), 1-29. (R. N. Goss) 33 #2491

Matrizeninversion in der algebraischen Theorie der Wahrheitsfunktionen der mehrwertigen Logik. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 35 (1966), *no.* 5, 39-43. (A. Nerode) 35 #6528

The inversion of transformation matrices for the canonical bases of the ring of polynomials of finite degree. (Serbo-Croatian. French summary) *Godišnjak Filozof. Fak. u Novom Sadu No.* 10 (1967), 531-538. (M. Tomić) 41 #8884

Taking the powers of a matrix. (Serbo-Croatian. English summary) *Godišnjak Filozof. Fak. u Novom Sadu No.* 11 (1968), 711-716. (D. Palman) 41 #236

(with Trifunović, Dragan) Petrović's modification of Gräffe's method for solving algebraic equations. (Serbo-Croatian. French summary) *Mat. Vesnik* 5(20) (1968), 439-446. 39 #1111

On a method of solution of linear difference equations. *Mat. Vesnik* 6(21) (1969), 111-116. (W. Strodt) 42 #708

Stojancev, V. T.

Indeterminate methods of integration with a finite number of possible formulas. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1235-1246. (P. Zinterhof) 42 #1339

Stojanov, A. C.

(with Hristov, Hr. Ja.) Nonlinear representations of the group SU(2). (Russian) *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna, 1968), pp.* 493-503. *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (C. A. Hurst) 41 #1310

Stojanov, D. T.

(with Tavhelidze, A. N.) A relativistic three-body problem. *Phys. Lett.* 13 (1964), 76-77. (R. L. Omnès) 32 #807a

(with Šelest, V. P.) Scattering matrix elements in the relativistic three body problem. *Phys. Lett.* 13 (1964), 253-255. (R. L. Omnès) 32 #807b

(with Matveev, V. A.; Tavhelidze, A. N.) Perturbation theory, finite-energy sum rules and a generalized Veneziano representation. *Phys. Lett.* 32B (1970), 61-64. (S. Aramaki) 43 #7154

Stojanov, N. V.

On the relative periodic motions of a pendulum. *Prikl. Mat. Meh.* 28 (1964), 160-163 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 188-193. (M. Janet) 30 #3266

On the stabilization of the steady state motion of a nonlinear control system in the critical case of a double zero root. *Prikl. Mat. Meh.* 31 (1967), 511-515 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 536-540. (A. M. Krall) 39 #3110

Stabilizing a nonlinear controlled system for steady-state motions in the critical case of a double zero root. *Prikl. Mat. Meh.* 31 (1967), 963-968 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 981-986 (1968). (B. Porter) 37 #3855

The stabilization of a nonlinear control system in the critical case of two pairs of pure imaginary roots. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 103-109. (Š. Schwabik) 40 #6018

(with Gerov, G. H.) The stabilization of a nonlinear control system in the $2k$ critical case of purely imaginary roots. (Russian. Bulgarian and English summaries) *Teoret. i Prilož. Meh.* 1 (1970), *kn.* 2, 11-16. (Authors' summary) 43 #8414

Stojanova, I.

(with Nedjalkov, I.) Integral formulas for two-dimensional multipole moments. (Russian. Bulgarian and English summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Fiz.* 6 (1969), *kn.* 1, 121-133 (1971). (Editors) 44 #2936

Stojanović, Rastko D.

Equilibrium conditions for internal stresses in non-Euclidean continua and stress spaces. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 1 (1963), 323-327. (E. F. Stiel) 31 #4237

(with Vujošević, L.) Couple stress in non-euclidean continua. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 71-74 (1963). (P. P. Teodorescu) 30 #2743

(with Durić, S.; Vujošević, L.) On finite thermal deformations (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 103-108. (R. L. Fosdick) 29 #6685

(with Durić, S.; Vujošević, L.) On the dynamics of the continuum of E. and F. Cosserat. (Serbo-Croatian. English summary) *Mat. Vesnik* 1(16) (1964), 127-139. (Authors' summary) 33 #924

Generalization of the concept of moment of vectors and application to the geometry of masses. (Serbo-Croatian. English summary) *Mat. Vesnik* 3(18) (1966), 23-34. 34 #5344

Stojanović, Stevan M.

The strong law of large numbers for strictly stationary sequence of generalized stochastic processes. *Publ. Inst. Math. (Beograd) (N.S.)* 5(19) (1965), 41-44. (K. Krickeberg) 33 #4999

Spectral decomposition of stationary generalized random processes. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 3(18) (1966), 173-177. (Author's summary) 36 #7203

On the law of large numbers for generalized stochastic processes. (Serbo-Croatian. English summary) *Mat. Vesnik* 3(18) (1966), 299-302. (From the author's summary) 34 #6845

The doubled system with different elements. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 6(21) (1969), 417-418. (I. Vajda) 41 #4762

The optimal control of a coding channel of a closed queueing system with many types of sources. (Serbo-Croatian. English summary) *Mat. Vesnik* 6(21) (1969), 413-416. (T. T. Tonkov) 41 #7791

The construction of the lower confidence boundary for a reliability function of a complex system on the basis of observation results of certain components. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 6(21) (1969), 419-422. (I. Vajda) 41 #2861

Stojanović, Zoran Pop. See Pop-Stojanović, Zoran R.

Stojanovitch, Rastko. See Stojanović, Rastko D.

Stojic', Milic' R.

The analysis of nonlinear automatic control systems by the application of algebraic absolute stability criteria. (Russian. Serbo-Croatian summary) *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 246 (1969), 47 *pp.* (Editors) 39 #6639

Stoka, Marius I.

On the subgroups of the transformation group of a Riemannian space V_3 with constant negative curvature. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 13 (1962), 565-581. (A. Aeppli) 31 #6175

Über die Bewegungsgruppe eines Riemannschen Raumes V_3 mit konstanter negativer Krümmung. *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 633-662. (A. Urban) 31 #3978

Géométrie intégrale dans un espace E_n. *Univ. Nac. Tucumán Rev. Ser. A* 14 (1962), 25-59. (L. A. Santaló) 29 #6460

Families of measurable manifolds in a Riemannian space V_3 of constant negative curvature. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 365-376. (Author's summary) 31 #6190

On Riemannian spaces with indefinite metric and constant curvature. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 599-614. (Author's summary) 32 #421

On the group of motions of a Riemannian space V_3 of constant positive curvature. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 317-323. (A. Urban) 31 #3957

Connexions invariantes sur un espace riemannien V_3. I. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 50 (1964), 1244-1251. (A. Urban) 31 #3979

Su gli spazi Riemanniani dalla metrica indefinita e dalla curvature costante. *Math. Notae* 20 (1965), 65-86. (Editors) 35 #3601

Connexions invariantes sur un espace riemannien V_3. II. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1247-1254. (A. Urban) 34 #3492

Connexions invariantes sur un espace riemannien V_n. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1281-1300. (W. F. Pohl) 33 #6541

On correspondences of the third kind between projective planes. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 547-562. (G. Vranceanu) 34 #1957

Invariant connections on a Riemannian space V_3. II. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1027-1034. (Editors) 34 #3491

* (with Theodorescu, Radu) Probabilitate şi geometrie. (Romanian) [Probability and geometry] *Editura Ştiinţifică, Bucharest,* 1966. 246 *pp.* (M. Iosifescu) 35 #7364

Les groupes d'holonomie des espaces A_3. *Bull. Math. Soc. Sci. Math. R. S. Roumaine* 10(58) (1966), 169-177 (1967). (Editors) 36 #7064

Determination of subgroups of the group $X_\alpha f = \partial f/\partial x^\alpha + 2x^\alpha \partial f/\partial x^3$ $(\alpha = 1,2)$, $X_3 f = x^1 \partial f/\partial x^2 - x^2 \partial f/\partial x^1$, $X_4 f = x^1 \partial f/\partial x^1 + x^2 \partial f/\partial x^2 + 2x^3 \partial f/\partial x^3$. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 397-405. 36 #1583

Holonomy groups of the spaces A_3. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 537-545. (H. W. Guggenheimer) 35 #2236

On groups isomorphic with the group of orthogonal transformations in the euclidean plane. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 771-781. (L. A. Santaló) 35 #1700

On the partition function of a multinomial partition. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1281-1285. (Author's summary) 39 #2191

* Geometrie integrală. (Romanian) [Integral geometry] *Editura Academiei Republicii Socialiste Romania, Bucharest,* 1967. 239 *pp.* (L. A. Santaló) 36 #836

Connexions invariantes sur des espaces riemanniens à métrique indéfinie à courbure constante. *Boll. Un. Mat. Ital.* (3) 22 (1967), 219-227. (H. Rund) 36 #3277

On groups isomorphic with the group of orthogonal transformations in the space E_3 and with subgroups of it. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 177-204. (L. A. Santaló) 39 #4320

On subgroups of the group of orthogonal transformations in the space E_3. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 339-362. (L. Tamássy) 39 #4321

Holonomy groups of spaces A_4. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 585-607. (Gh. Th. Gheorghiu (Zbl 157, 282)) 40 #3463

Determination of the subgroups of the group of affine transformations of the plane. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 897-925. 40 #5784

Invariant connections on Riemannian spaces with indefinite metric of constant curvature. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1071-1079. (Editors) 40 #6438

On groups isomorphic with the projective group of the plane and with its subgroups. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1081-1104. (G. G. Vrănceanu (Zbl 153, 352)) 40 #6349

* Géométrie intégrale. Mémorial des Sciences Mathématiques, Fasc. 165. *Gauthier-Villars Éditeur, Paris,* 1968. 65 *pp.* (L. A. Santaló) 37 #6891

(with Theodorescu, Radu) Sur la probabilité d'une famille de figures arbitrairement réparties. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1204-A1205. (L. A. Santaló) 38 #1646

Les groupes d'holonomie des espaces A_4. *Publ. Math. Debrecen* 15 (1968), 311-315. (R. N. Sen) 39 #889

Alcune formule integrali concernenti i corpi convessi dello spazio euclideo E_3. *Univ. e Politec. Torino Rend. Sem. Mat.* 28 (1968/69), 95-105. (C.-C. Hsiung) 41 #7593

Sur la fonction de répartition de la distance entre deux points de l'interieur d'un hyperovaloïde. *Math. Nachr.* 42 (1969), 263-266. (A. D. McLaren) 42 #6895

Connessioni invarienti su spazi riemanniani. (English summary) *Rend. Sem. Mat. Fis. Milano* 39 (1969), 151-170. (G. Vranceanu) 42 #6749

Štokalo, Ĭ. Z.

Important investigations in the field of the analytic theory of differential equations. (Ukrainian. Russian summary) *Visnik Kiïv. Univ.* 1961, *no.* 4, 19-26. (Editors) 33 #2878

(with Gnedenko, B. V.; Pogrebysskiĭ, I. B.; Juškevič, A. P.) Problems of the history of mathematics in Russia and the U.S.S.R. and works in this area during the period 1956-1961. (Russian) *Istor.-Mat. Issled. No.* 15 (1963), 11-36. (Kenneth May) 32 #3983

(See also History of national mathematics in four volumes. Vol. I. From oldest times to the end of the 18th century, 35 #4068; History of national mathematics in four volumes, Vol. II. 1801-1917, 37 #3888; Bogoljubov, A. N.; Erugin, N. P.; Mitropol's'kiĭ, Ju. O; Parasjuk, O. S., 36 #1276; Mitropol's'kiĭ, Ju. O.; Parasjuk, O. S.; Bogoljubov, A. N., 37 #3899; History of national mathematics in four volumes. Vol. 3: 1917-1967, 38 #5566; and Mitropol's'kiĭ, Ju. O.; Bogoljubov, A. N., 38 #1991)

Important studies in problems of differential equations (on the 60th birthday of Academician N. P. Erugin). (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1969, *no.* 2, 7-32. (Š. Schwabik) 42 #24

Stoker, D. J.

(with Fellingham, S. A.) An approximation for the exact distribution of the Wilcoxon test for symmetry. *J. Amer. Statist. Assoc.* 59 (1964), 899-905. (E. Lukacs) 29 #4156

(with Lemmer, H. H.; Reinach, S. G.) A distribution-free analysis of variance technique for block designs. *South African Statist. J.* 2 (1968), 9-32. 41 #4743

Stoker, James J., Jr.

Uniqueness theorems for polyhedra. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 1398-1404. (G. T. Sallee) 33 #6558

Geometrical problems concerning polyhedra in the large. *Comm. Pure Appl. Math.* 21 (1968), 119-168. (G. T. Sallee) 36 #5815

* Differential geometry. Pure and Applied Mathematics, Vol. XX. *Interscience Publishers [John Wiley & Sons], New York-London-Sydney,* 1969. xxi + 404 *pp.* (C. B. Allendoerfer) 39 #2072

Uniqueness theorems for surfaces consisting of cones or cylinders closed off at one and by convex bases. *Comm. Pure Appl. Math.* 23 (1970), 425-446. (G. Ludden) 41 #9163

Stokes, Arnold P.

On the stability of a limit cycle of an autonomous functional differential equation. *Contributions to Differential Equations* 3 (1964), 121-139. (K. L. Cooke) 29 #1396

Some implications of orbital stability in Banach spaces. *SIAM J. Appl. Math.* 17 (1969), 1317-1325. (H. I. Freedman) 42 #2139

On the stability of integral manifolds of functional differential equations. *J. Differential Equations* 9 (1971), 405-419. (T. Yoshizawa) 43 #2326

Stokes, V. K.

(with Leigh, D. C.) On complex potentials in two-dimensional linearized elasticity with couple stresses. (German summary) *Acta Mech.* 8 (1969), 304-322. (R. L. Fosdick) 43 #4324

Stölan, Birger

(with Cooper, Leon N.) Approximation methods in many-body perturbation theory. *Phys. Rev.* (2) 143 (1966), 209-214. (H. S. Green) 33 #5310

Stolarska, Elżbieta

(with Zadora, Krzysztof) The problem of periodic oscillations in a dynamical econometric model with one period retardations. (Polish. Russian and English summaries) *Przegląd Statyst.* 16 (1969), 101-107. 40 #989

(with Jankiewicz, C.) The solution of the stationary equations of the gravitational field by a method of successive approximations in a harmonic coordinate system. (Polish. English summary) *Zeszyty Nauk. Wyż. Szkoł. Ped. Opol.* 1967, *no.* 6, 185-216. (W. M. Tulczyjew) 40 #2324

Stolarski, S. J.

(with Bednarek, A. R.) On a certain class of covers. *Nieuw Arch. Wisk.* (3) 16 (1968), 85-89. (G. Fodor) 39 #2641

Stolarsky, Kenneth B.

A lower bound for the Scholz-Brauer problem. *Canad. J. Math.* 21 (1969), 675-683. (L. Kuipers) 40 #114

A vanishing finite sum associated with Jacobi's triple product identity. *J. Combinatorial Theory* 6 (1969), 392-398. (A. L. Whiteman) 38 #5642

Infinitely many generalizations of Abel's partial summation identity. *Fibonacci Quart.* 8 (1970), *no.* 4, 375-379, 405. (H. W. Brinkmann) 42 #6088

Certain semigroups of linear fractional transformations contain elements of arbitrarily large trace. *Illinois J. Math.* 14 (1970), 238-240. (L. Greenberg) 41 #359

Generalizations of the Bellavitis partition identities. *J. Number Theory* 3 (1971), 240-246. (H. Gupta) 43 #1936

Stolarz, J.

The nonuniqueness of solutions of the equation $f(x) = \max_{y_1 + y_2 \leq x} [g(y_1) + h(y_2) + f(ay_1 + by_2 + x - y_1 - y_2)]$. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Slaska Mat.-Fiz.* *Zeszyt* 15 (1970), 147-160. (Authors' summary) 43 #1623

Stoljarov, A. V.

Certain properties of cyclically conjugate systems of the first kind in P_4. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 154-166. (O. Em. Gheorghiu) 41 #4405

Certain properties of plane nets with coincident pseudofoci. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 167-180. (A. Zajtz) 40 #6424

Pseudo-focal transformations of plane holonomic nets in four-dimensional projective space. (Russian) *Čuvaš. Gos. Univ. i Čuvaš. Gos. Ped. Inst. Učen. Zap. Vyp.* 29 (1969), 22-49 *(errata insert).* (I. Vaisman) 41 #4406

The intrinsic geometry of two classes of plane multidimensional nets in projective space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 8 (87), 104-111. (M. Decuyper) 40 #6413

Nets that have coincident pseudofoci and are given on the hypersurfaces of projective space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 2 (93), 86-93. (K. Svoboda) 43 #3945

The networks and polar conjugate configurations on the hypersurfaces of a projective space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 7 (98), 96-101. (M. Decuyper) 43 #6829

Stoljarova, L. P.

An application of multi-element throws to the solution of problems of projective geometry. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 156-160. (D. J. Struik) 43 #8001

Stoljars'ka, N. E.

Effect of external periodic forces on single-frequency oscillations in systems with several degrees of freedom. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1964, 155-158. (T. Leser) 34 #4628

Stoljarskaja, N. E. See Stoljars'ka, N. E.

Stoll, Robert R.

Elementary operations and systems of linear equations. *Amer. Math. Monthly* 69 (1962), 42-44. 30 #4779

* Set theory and logic. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1963. xiv + 474 *pp.* (R. L. Wilder) 30 #11

* (with Wong, E. T.) Linear algebra. *Academic Press, New York-London,* 1968. x + 326 *pp.* (Editors) 36 #5149

Stoll, Wilhelm

The growth of the area of a transcendental analytic set of dimension one. *Math. Z.* 81 (1963), 76-98. (R. Epe) 29 #2430

The growth of the area of a transcendental analytic set. I, II. *Math. Ann.* 156 (1964), 47-78; *ibod.* 156 (1964), 144-170. (R. C. Gunning) 29 #3670

Normal families of non-negative divisors. *Math. Z.* 84 (1964), 154-218. (E. A. Bishop) 29 #2431

Normal families of non-negative divisors. *Proc. Conf. Complex Analysis (Minneapolis, 1964), pp.* 70-81. *Springer, Berlin,* 1965. (Editors) 34 #6155

About the convergence of a power series. *Festschr. Gedächtnisfeier K. Weierstrasse, pp.* 523-529. *Westdeutscher Verlag, Cologne,* 1966. (Y. Kawahara) 33 #5662

The multiplicity of a holomorphic map. *Invent. Math.* 2 (1966), 15-58. (H. Röhrl) 35 #1832

A general first main theorem of value distribution. I. *Acta Math.* 118 (1967), 111-146. (R. C. Gunning) 36 #430a

A general first main theorem of value distribution. II. *Acta Math.* 118 (1967), 147-191. (R. C. Gunning) 36 #430b

The continuity of the fiber integral. *Math. Z.* 95 (1967), 87-138. (P. Lelong) 39 #4437

About entire and meromorphic functions of exponential type. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 392-430. *Amer. Math. Soc., Providence, R. I.,* 1968. (J. Kajiwara) 38 #4706

The fiber integral is constant. *Math. Z.* 104 (1968), 65-73. (Ngô van Quê) 37 #467

About the value distribution of holomorphic maps into the projective space. *Acta Math.* 123 (1969), 83-114. (K. Peters) 41 #3815

About the universal covering of the complement of a complete quadrilateral. *Proc. Amer. Math. Soc.* 22 (1969), 326-327. (K. Peters) 39 #7135

* Value distribution of holomorphic maps into compact complex manifolds. Lecture Notes in Mathematics, Vol. 135. *Springer-Verlag, Berlin-New York,* 1970. i + 267 *pp.* (W. Barth) 42 #2040

Value distribution of holomorphic maps. *Several Complex Variables, I (Proc. Conf., Univ. of Maryland, College Park, Md., 1970), pp.* 165-190. *Springer, Berlin,* 1970. (H. Wu) 42 #4774

(with Andreotti, Aldo) The extension of bounded holomorphic functions from hypersurfaces in a polyclinder. Complex Analysis (Proc. Conf. Rice Univ., Houston, Tex., 1969). *Rice Univ. Studies* 56 (1970), *no.* 2, 199-222 (1971). (B. M. Weinstock) 43 #3485

The construction of a $\bar{\partial}$-simple covering. *Proc. Amer. Math. Soc.* 27 (1971), 101-106. (S. J. Greenfield) 42 #7940

Stoller, R. L.

(with Koivo, A. J.) On least squares estimation in nonlinear dynamical systems with time delay. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 116-122. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the authors' summary) 40 #495

Stolov, E. L.

Asymptotic properties of the special functions which are connected with class 1 representations of groups of motions of spaces of constant curvature. (Russian) *Collection of Candidates' Works. Exact Sci.: Math. Mech., Phys. (Russian), pp.* 96-104. *Izdat. Kazan. Univ., Kazan,* 1969. (J. Ławrynowicz) 41 #2094

A certain method of investigation of the matrix elements of group representations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematik* 1969, *no.* 7 (86), 79-86. (A. J. Coleman) 40 #1535

The matrix elements of the representations of SO(n) of class I with respect to SO(n - 1). (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 5 (96), 86-91. (M. E. Mayer) 43 #2261

Stolova, E. S.

Focal properties of curves of third order. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 112-114. 35 #848

Stolt, Robert H.

(with Taylor, John R.) Correspondence between the first- and second-quantized theories of paraparticles. *Nuclear Phys.* B19 (1970), 1-19. (L. M. Garrido) 43 #7167

Stoltenberg, Ronald A.

A completion for a quasi uniform space. *Proc. Amer. Math. Soc.* 18 (1967), 864-867. (D. V. Thampuran) 35 #6124

Some properties of quasi-uniform spaces. *Proc. London Math. Soc.* (3) 17 (1967), 226-240. (D. V. Thampuran) 34 #5055

On quasi-metric spaces. *Duke Math. J.* 36 (1969), 65-71. (C. R. Borges) 38 #3824

(with Burke, D. K.) A note on p-spaces and Moore spaces. *Pacific J. Math.* 30 (1969), 601-608. (D. R. Traylor) 40 #3507

A note on stratifiable spaces. *Proc. Amer. Math. Soc.* 23 (1969), 294-297. (C. R. Borges) 39 #6245

Stolz, Peter

Attempt of an axiomatic foundation of quantum mechanics and more general theories. V. *Comm. Math. Phys.* 11 (1968/69), 303-313. (J. M. Jauch) 39 #3760

Stolzenberg, Gabriel

(with Rossi, H.) Analytic function algebras. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 138-148. *Scott-Foresman, Chicago, Ill.,* 1966. (L. Bungart) 33 #6439

Volumes, limits, and extensions of analytic varieties. Lecture Notes in Mathematics, No. 19. *Springer-Verlag, Berlin-New York,* 1966. ii + 45 *pp.* (W. Stoll) 34 #6156

Uniform approximation on smooth curves. *Acta Math.* 115 (1966), 185-198. (J. Wermer) 33 #307

The analytic part of the Runge hull. *Math. Ann.* 164 (1966), 286-290. (R. P. Gilbert) 34 #2938

Constructive normalization of an algebraic variety. *Bull. Amer. Math. Soc.* 74 (1968), 595-599. (A. Mattuck) 37 #201

Review: ***Foundations of constructive analysis*** by Errett Bishop. *Bull. Amer. Math. Soc.* 76 (1970), 301-323. (W. A. J. Luxemburg) 41 #2337

Stone, A. H.

Non-separable Borel sets. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague, 1961), pp.* 341-342. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (Editors) 30 #3848

Errata to: "Hereditarily compact spaces". *Amer. J. Math.* 86 (1964), 888. (Editors) 30 #558

(with Ross, K. A.) Products of separable spaces. *Amer. Math. Monthly* 71 (1964), 398-403. (H. H. Corson) 29 #1611

(with Scarborough, C. T.) Products of nearly compact spaces. *Trans. Amer. Math. Soc.* 124 (1966), 131-147. (G. E. Strecker) 34 #3528

Disconnectible spaces. *Topology Conference (Arizona State Univ., Tempe, Ariz., 1967), pp.* 265-276. *Arizona State Univ., Tempe, Ariz.,* 1968. (H. V. Kronk) 39 #924

On partitioning ordered sets into cofinal subsets. *Mathematika* 15 (1968), 217-222. (E. S. Wolk) 38 #5674

(with Michael, E.) Quotients of the space of irrationals. *Pacific J. Math.* 28 (1969), 629-633. (H. Tong) 41 #1002

Some combinatorial problems in general topology. *Combinatoria Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 413-416. *Gordon and Breach, New York,* 1970. (Ky Fan) 42 #3764

Borel and analytic metric spaces. *Proc. Washington State Univ. Conf. on General Topology (Pullman, Wash., 1970), pp.* 20-33. *Pi Mu Epsilon, Dept. of Math., Washington State Univ., Pullman, Wash.,* 1970. (A. H. Kruse) 42 #3745

(with Erdős, P.) On the sum of two Borel sets. *Proc. Amer. Math. Soc.* 25 (1970), 304-306. (E. R. Lorch) 41 #5578

(with Jones, F. B.) Countable locally connected Urysohn spaces. *Colloq. Math.* 22 (1971), 239-244. (J. W. Rogers, Jr.) 44 #994

Stone, Alexander P.

Analytic conservation laws. (French summary) *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 2, 319-327. (K. Takano) 35 #6160

General conservation laws. *Proc. Amer. Math. Soc.* 18 (1967), 868-873. (B. L. Reinhart) 36 #805

Higher order conservation laws. *J. Differential Geometry* 3 (1969), 447-456. (K. Takano) 41 #9128

(with Blair, D. E.) A note on the holonomy group of manifolds with certain structures. *Proc. Amer. Math. Soc.* 21 (1969), 73-76. (H. Suzuki) 38 #5133

Higher order conservation laws. II. *J. Differential Geometry* 4 (1970), 469-475. (K. Takano) 43 #2629

(with Blair, D. E.) Geometry of manifolds which admit conservation laws. (French summary) *Ann. Inst. Fourier (Grenoble)* 21 (1971), *fasc.* 1, 1-9. (Shoshichi Kobayashi) 44 #948
(with Blair, D. E.) Geometry of manifolds which admit conservation laws. II. *Math. Ann.* 194 (1971), 167-179. (Shoshichi Kobayashi) 44 #5885

Stone, Anthony P.
Representations of the n-dimensional rotation group. *Proc. Cambridge Philos. Soc.* 57 (1961), 469-475. (R. Keown) 33 #3694
Semisimple subgroups of semisimple groups. *J. Mathematical Phys.* 11 (1970), 29-38. (A. H. Klotz) 41 #4934

Stone, Arthur L.
Extensive ultraproducts and Haar measure. *Theory of Models (Proc. 1963 Internat. Sympos. Berkeley)*, *pp.* 419-423. *North-Holland, Amsterdam,* 1965. (H. J. Keisler) 34 #1441
Nonstandard analysis in topological algebra. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif., 1967), pp.* 285-299. *Holt, Rinehart and Winston, New York,* 1969. (J. R. Isbell) 38 #3309

Stone, Charles J.
A local limit theorem for nonlattice multi-dimensioanl distribution functions. *Ann. Math. Statist.* 36 (1965), 546-551. (C. G. Esseen) 30 #5351
On moment generating functions and renewal theory. *Ann. Math. Statist.* 36 (1965), 1298-1301. (C. G. Esseen) 31 #4097
On characteristic functions and renewal theory. *Trans. Amer. Math. Soc.* 120 (1965), 327-342. (S. Orey) 32 #6578
On absolutely continuous components and renewal theory. *Ann. Math. Statist.* 37 (1966), 271-275. (S. Orey) 33 #4981
The growth of a recurrent random walk. *Ann. Math. Statist.* 37 (1966), 1040-1041. (K. L. Chung) 33 #5004
Ration limit theorems for random walks on groups. *Trans. Amer. Math. Soc.* 125 (1966), 86-100. (G. E. H. Reuter) 36 #976
On local and ratio limit theorems. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part 2, pp.* 217-224. *Univ. California Press, Berkeley, Calif.,* 1967. (N. C. Jain) 36 #5989
Application of unsmoothing and Fourier analysis to random walks. *Markov Processes and Potential Theory (Proc. Sympos. Math. Res. Center, Madison, Wis., 1967), pp.* 165-192. *Wiley, New York,* 1967. (H. Kesten) 37 #4887
(with Port, Sidney C.) A large sample test for the independence of two renewal processes. *Ann. Math. Statist.* 38 (1967), 1037-1041. (E. A. Robinson) 35 #6316
(with Wainger, Stephen) One-sided error estimates in renewal theory. *J. Analyse Math.* 20 (1967), 325-352. (D. L. Iglehart) 36 #987
(with Port, Sidney C.) Hitting time and hitting places for non-lattice recurrent random walks. *J. Math. Mech.* 17 (1967), 35-57. (H. Kesten) 35 #6216
On a theorem by Dobrushin. *Ann. Math. Staitst.* 39 (1968), 1391-1401. (Petr Mandl) 37 #6996
(with Port, Sidney C.) Stopping times for recurrent stable processes. *Duke Math. J.* 35 (1968), 663-670. (F. L. Spitzer) 38 #773
(with Port. Sidney C.) Hitting times for transient random walks on groups. *J. Math. Mech.* 17 (1968), 1117-1130. (N. C. Jain) 37 #2327
Infinite particle systems and multi-dimensioanl renewal theory. *J. Math. Mech.* 18 (1968/69), 201-227. (C. J. Ridler-Rowe) 37 #7008
(with Port, Sidney C.) Potential theory of random walks on Abelian groups. *Acta Math.* 122 (1969), 19-114. (H. Kesten) 41 #6319
(with Port, S. C.) The asymmetric Cauchy processes on the line. *Ann. Math. Statist.* 40 (1969), 137-143. (J. F. C. Kingman) 38 #3922
(with Port, Sidney C.) Potential theory for infinitely divisible processes on Abelian groups. *Bull. Amer. Math. Soc.* 75 (1969), 848-851. (H. Kesten) 39 #6406
On the potential operator for one-dimensional recurrent random walks. *Trans. Amer. Math. Soc.* 136 (1969), 413-426. (H. Kesten) 38 #6674
Asymptotic behavior of the convolution of a pair of measures. *Trans. Amer. Math. Soc.* 136 (1969), 427-445. (Petr Mandl) 38 #2822

Stone, David A.
A counterexample in block bundle theory. *Topology* 9 (1970), 11-12. (B. J. Sanderson) 41 #6225

Stone, David R.
Torsion-free and divisible modules over matrix rings. *Pacific J. Math.* 35 (1970), 235-253. (H. Tominaga) 43 #4855

Stone, Harold S.
(with Jackson, Charles L.) Structures of the affine families of switching functions. *IEEE Trans. Computers* C-18 (1969), 251-257. (Authors' summary) 40 #4013
(with Mukhopadhyay, Amar) Cellular logic. *Recent Developments in Switching Theory, pp.* 255-313. *Academic Press, New York,* 1971. (Authors' summary) 43 #4564
Universal logic modules. *Recent Developments in Switching Theory, pp.* 229-254. *Academic Press, New York,* 1971. (Author's summary) 43 #4680

Stone, Henry
(with Mangasarian, O. L.) Two-person nonzero-sum games and quadratic programming. *J. Math. Anal. Appl.* 9 (1964), 348-355. (K. J. Arrow) 29 #6944

Stone, Herbert L.
Iterative solution of implicit approximations of multidimensional partial differential equations. *SIAM J. Numer. Anal.* 5 (1968), 530-558. (G. Fairweather) 38 #6780
(with Dupont, Todd; Rachford, H. H., Jr.) Factorization techniques for elliptic difference equations. *Numerical Solution of Field Problems in Continuum Physics (Proc. Sympos. Appl. Math. Durham, N. C., 1968), SIAM-AMS Proc., Vol. II, pp.* 168-174. *Amer. Math. Soc. Providence, R. I.,* 1970. (P. Laasonen) 41 #4831

Stone, Lawrence D.
On the distribution of the maximum of a semi-Markov process. *Ann. Math. Statist.* 39 (1968), 947-956. (L. Takács) 38 #785
On the distribuiton of the supremum functional for semi-Markov processes with continuous state spaces. *Ann. Math. Statist.* 40 (1969), 844-853. (R. Fischler) 39 #3595
(with Belkin, Barry; Snyder, Martin Avery) Distribution of time above a threshold for Markov processes. *J. Math. Anal. Appl.* 30 (1970), 448-470. (S. C. Port) 41 #2765
Distribution of time above a threshold for semi-Markov jump processes. *J. Math. Anal. Appl.* 30 (1970), 576-591. (L. Takács) 41 #4636

Stone, M. S.
(with Weber, C. S.) Signal-design considerations for the noncoherent Gaussian channel. *IEEE Trans. Information Theory* IT-16 (1970), 501-503. (Authors' summary) 43 #1731

Stone, Marshall H.
Topological aspects of conformal mapping theory. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague, 1961), pp.* 343-346. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (L. Fourès) 31 #323
(See also Functional analysis and related fields, 42 #3532; Birkhoff, George David, 38 #4271a, 38 #4271b and 38 #4271c)
The future of mathematics. (Czech) *Pokroky Mat. Fys. Astronom.* 16 (1971), 57-63. (Editors) 43 #3

Stone, Mervyn
Comments on a posterior distribuiton of Geisser and Cornfield. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 274-276. (D. V. Lindley) 30 #2605
Right Haar measure for convergence in probability to quasi posterior distributions. *Ann. Math. Statist.* 36 (1965), 440-453. (J. Sacks) 30 #5398
(with Springer, B. G. F.) A paradox involving quasi prior distributions. *Biometrika* 52 (1965), 623-627. (L. J. Savage) 35 #1127
Generalized Bayes decision functions, admissibility and the exponential family. *Ann. Math. Statist.* 38 (1967), 818-822. (J. Sacks) 37 #2367
Extreme tail probabilities for the null distribution of the two-sample Wilcoxon statistic. *Biometrika* 54 (1967), 629-640. (J. Sethuraman) 37 #7056
Extreme tail probabilities for sampling without replacement and exact Bahadur efficiency of the two-sample normal scores tests. *Biometrika* 55 (1968), 371-375. (Author's summary) 38 #806
(with von Randow, R.) Statistically inspired conditions on the group structure of invariant experiments and their relationships with other conditions on locally compact topological groups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 70-80. (J. Kiefer) 38 #1771
Approximations to extreme tail probabilities for sampling without replacement. *Proc. Cambridge Philos. Soc.* 66 (1969), 587-606. (M. M. Siddiqui) 40 #2205
Necessary and sufficient condition for convergence in probability to invariant posterior distributions. *Ann. Math. Statist.* 41 (1970), 1349-1353. (Author's summary) 42 #1265

Stone, Richard
* Matematyka w naukach społecznych. (Polish) [Mathematics in the social sciences] *Państwowe Wydawnictwo Ekonomiczne, Warsaw,* 1970. 331 *pp. (2 foldouts)* (Editors) 42 #7305
* Mathematics in the social sciences and other essays. *The M.I.T. Press, Cambridge, Mass.,* 1966, xiii + 291 *pp. (2 foldouts)* (Andrei Rogers) 33 #5362

Stoneham, R. G.
A study of 60,000 digits of the transcendental "e". *Amer. Math. Monthly* 72 (1965), 483-500. (I. J. Good) 31 #4108
On (j,ε)-normality in the rational fractions. *Acta Arith.* 16 (1969/70), 221-237. (H. J. Kanold) 42 #207a
A general arithmetic construction of transcendental non-Liouville normal numbers from rational fractions. *Acta Arith.* 16 (1969/70), 239-253. (H. J. Kanold) 42 #207b

On a new class of multiplicative pseudo-random number generators. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 481-500. (R. R. Coveyou) 43 #4218

Stonehewer, Stewart E.

Abnormal subgroups of a class of periodic locally soluble groups. *Proc. London Math. Soc.* (3) 14 (1964), 520-536. (S. Lipschutz) 29 #2303

Locally soluble *FC*-groups. *Arch. Math.* 16 (1965), 158-177. (Graham Higman) 31 #3511

Formations and a class of locally soluble groups. *Proc. Cambridge Philos. Soc.* 62 (1966), 613-635. (O. H. Kegel) 34 #4368

(with Roseblade, J. E.) Subjunctive and locally coalescent classes of groups. *J. Algebra* 8 (1968), 423-435. (H. Lausch) 36 #5208

Some finiteness conditions in locally soluble groups. *J. London Math. Soc.* 43 (1968), 689-694. (B. A. F. Wehrfritz) 37 #5300

(with Hartley, B.) On some questions of P. Hall concerning simple, generalized soluble groups. *J. London Math. Soc.* 43 (1968), 739-744. (D. Woodhouse) 37 #5280

(with Green, J. A.) The radicals of some group algebras. *J. Algebra* 13 (1969), 137-142. (T.-Y. Lam) 39 #7000

Group algebras of some torsion-free groups. *J. Algebra* 13 (1969), 143-147. (T.-Y. Lam) 39 #7005

The join of finitely many subnormal subgroups. *Bull. London Math. Soc.* 2 (1970), 77-82. (M. F. Newman) 41 #1877

Stoneman, David M.

(with Draper, Norman R.) Testing for the inclusion of variables in linear regression by a randomisation technique. *Technometrics* 8 (1966), 695-699. (Authors' summary) 34 #3714

(with Draper, Norman R.) Response surface designs for factors at two and three levels and at two and four levels. *Technometrics* 10 (1968), 177-192. (M. J. Karson) 37 #1036

(with Draper, Norman R.) Factor changes and linear trends in eight-run two-level factorial designs. *Technometrics* 10 (1968), 301-311. (M. Atiqullah) 38 #5357

Stong, Robert E.

A note on the sequential unconstrained minimization technique for non-linear programming. *Management Sci.* 12 (1965), 142-144. (J. Warga) 32 #1020

Cobordism and Stiefel-Whitney numbers. *Topology* 4 (1965), 241-256. (P. E. Conner) 34 #5095

Relations among characteristic numbers. I. *Topology* 4 (1965), 267-281. (F. Hirzebruch) 33 #740

Involutions fixing projective spaces. *Michigan Math. J.* 13 (1966), 445-447. (E. Dyer) 34 #6795

On the squares of oriented manifolds. *Proc. Amer. Math. Soc.* 17 (1966), 706-708. (P. S. Landweber) 33 #730

Relations among characteristic numbers. II. *Topology* 5 (1966), 133-148. (F. Hirzebruch) 33 #741

Cobordism of maps. *Topology* 5 (1966), 245-258. (M. F. Atiyah) 33 #4945

Finite topological spaces. *Trans. Amer. Math. Soc.* 123 (1966), 325-340. (E. Nunnally) 33 #3247

On complex-spin manifolds. *Ann. of Math.* (2) 85 (1967), 526-536. (P. S. Landweber) 35 #1040

Some remarks on symplectic cobordism. *Ann. of Math.* (2) 86 (1967), 425-433. (P. S. Landweber) 36 #2162

Stationary point free group actions. *Proc. Amer. Math. Soc.* 18 (1967), 1089-1092. (H. Suzuki) 36 #895

* Notes on cobordism theory. Mathematical notes. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo,* 1968. v + 354 + lvi *pp.* (R. Z. Goldstein) 40 #2108

(with Smith, Larry) The structure of *BSC*. *Invent. Math.* 5 (1968), 138-159. (P. A. Green) 37 #2240

(with Smith, Larry) Exotic cobordism theoreis associated with classical groups. *J. Math. Mech.* 17 (1968), 1087-1102. (P. S. Landweber) 37 #2241

Bordism and involutions. *Ann. of Math.* (2) 90 (1969), 47-74. (J. Siegel) 39 #3503

Clifford algebra cobordism. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 177-185. (A. Liulevicius) 40 #8066

Complex and oriented equivariant bordism. *Topology of Manifolds (Proc. Inst. Univ. of Georgia, Athens, Ga., 1969), pp.* 291-316. *Markham, Chicago, Ill.*, 1970. (R. Schultz) 42 #8521

* Unoriented bordism and actions of finite groups. Memoirs of the Americal Mathematical Society, No. 103. *Americal Mathematical Society, Providence, R. I.*, 1970. 80 *pp.* (R. Schultz) 42 #8522

Equivariant bordism and $(Z_2)^k$ actions. *Duke Math. J.* 37 (1970), 779-785. (J. W. Vick) 42 #6847

Cobordism of homology classes. *Math. Ann.* 189 (1970), 99-120. (J. W. Vick) 43 #1211

Equivariant bordism and Smith theory. *Trans. Amer. Math. Soc.* 159 (1971), 417-426. (J. W. Vick) 44 #4779a

Equivariant bordism and Smith theory. II. *Trans. Amer. Math. Soc.* 162 (1971), 317-326. (J. W. Vick) 44 #4779b

Stonic'kiĭ, A. A.

Asymptotic representation of the solution of a differential equation with oscillating free term. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1963, 299-303. (Author's summary) 29 #1383

Approximate solution, by the method of Ju. D. Sokolov, of an infinite system of integral equations of Volterra type depending on a parameter. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1963, 1555-1559. (H. P. Thielman) 29 #2610

On the question of applying the method of A. M. Ljapunov to the solution of the problem on periodic waves of finite amplitude. (Russian) *Vyčisl. Mat. (Kiev) Vyp.* 1 (1965), 68-78. (Jerome S. Shipman) 34 #7102

The use of uniform approximations for the approximate solution of Fredholm integral equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 613-616. (Author's summary) 35 #5157

A method for the approximate solution of Fredholm integral equations. (Russian) *Problems in the Theory and History of Differential Equations (Russian), pp.* 147-155. *"Naukova Dumka", Kiev,* 1968. G. F. Miller) 37 #7110

A solution of Fredholm integral equations with degenerate kernel by the method of undetermined coefficients. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968. 824-826. 39 #1918

Stopes-Roe, Harry V.

An economy in the formation rules for quantification theory. *Notre Dame J. Formal Logic* 10 (1969), 313-316. 39 #6735

Stopp, Friedmar

Zur funktionentheoretischen Auffassung der Mikusińskischen Operatorenrechnung. *Math. Nachr.* 32 (1966), 187-205. (A. Erdélyi) 34 #6458

Über die verallgemeinerten Lösungen bei entarteten Anfangswertproblemen für gewöhnliche Differentialgleichungen. *Z. Angew. Math. Mech.* 48 (1968), 288-289. (D. Laugwitz) 38 #3496

Stoppelli, Francesco

Sulle equazioni linearizzate dell'aerotermochimica unidimensionale. *Ricerche Mat.* 14 (1965), 169-186. (R. N. Goss) 35 #1277

Stöppler, Siegmar

k-Auflösbare Gruppen. *Rend. Sem. Mat. Univ. Padova* 43 (1970), 141-175. (K. W. Gruenberg) 43 #4918

Stora, Raymond

(with Moussa, P.) Some remarks on the product of irreducible representations of the inhomogeneous Lorentz group. *Lectures in Theoret. Phys., Vol. VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo.,* 1964), *pp.* 37-69. *Univ. Colorado Press, Boulder, Colo.*, 1965. (R. F. Streater) 32 #6896

Storčaĭ, V. F.

Approximation by a linear function in L_2. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 101-104. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (S. Teljakovskiĭ (RŽMat 1968 #12 B110)) 42 #4929

The deviation of polygonal lines in the L_p metric. (Russian) *Mat. Zametki* 5 (1969), 31-37. (H. E. Warren) 39 #688

Storch, Uwe

Fastfaktorielle Ringe. *Schr. Math. Inst. Univ. Münster No.* 36 (1967), iv + 42 *pp.* (P. Samuel) 35 #5437

Über starre analytische Algebren. *Math. Ann.* 179 (1968), 53-62. (F. Gherardelli) 39 #4139

Über die Divisorenklassengruppen normaler komplex-analytischer Algebren. *Math. Ann.* 183 (1969), 93-104. (E. Brieskorn) 41 #1724

(with Scheja, Günter) Über differentielle Abhängigkeit bei Idealen analytischer Algebren. *Math. Z.* 114 (1970), 101-112. (W. V. Vasconcelos) 41 #8408

(with Scheja, Günter) Bemerkungen über die Einheitengruppen semilokaler Ringe. *Math.-Phys. Semesterber.* 17 (1970), 168-181. (E. F. Assmus, Jr.) 42 #3079

Storchi, Edoardo

Condizione di congruenza per una membrana ed integrale generale delle equazioni indifinite di equilibrio. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 527-532. (M. Mişicu) 39 #2391

Storer, R. G.

(with Grimm, R.) A new method for the numerical solution of the Schrödinger equation. *J. Computational Phys.* 4 (1969), 230-249. (Authors' summary) 39 #6590

(with Grimm, R. C.) Monte-Carlo solution of Schrödinger's equation. *J. Computational Phys.* 7 (1971), 134-156. (From the authors' introduction) 42 #5573

Storer, Thomas

* Cyclotomy and difference sets. Lectures in Advanced Mathematics, No. 2. *Markham Publishing Co., Chicago, Ill.*, 1967. vii + 134 *pp.* (A. L. Whiteman) 36 #128

On the unique determination of the cyclotomic numbers for Galois fields and Galois domains. *J. Combinatorial Theory* 2 (1967), 296-300. (A. L. Whiteman) 35 #1572

Cyclotomies and difference sets modulo a product of two distinct odd primes. *Michigan Math. J.* 14 (1967), 117-127. (A. L. Whiteman) 36 #2580

Cyclotomy in G.D.($p^{\alpha}q^{\beta}r^{\gamma}$). *Portugal. Math.* 26 (1967), 83-91. (A. L. Whiteman) 40 #1366

On the arithmetic structure of Galois domains. *Acta Arith.* 15 (1968/69), 139-159. (A. L. Whiteman) 39 #173

A note on the arithmetic structure of the integers modulo *N*. *J. Combinatorial Theory* 5 (1968), 207-209. (H. J. Godwin) 37 #5184

A complete cyclotomic theory for $Z_{p_0p_1}$. *Duke Math. J.* 36 (1969), 485-493. (A. L. Whiteman) 39 #5517

Combinatorial structures in Galois domains. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 417-420. *Gordon and Breach, New York,* 1970. (From the author's conclusion) 41 #8257

Mixed cyclotomy, prime-power circulants, and cyclotomy modulo $p = ef + 1$ for composite e. *J. Number Theory* 1 (1969), 280-290. (A. L. Whiteman) 39 #2727

The number of solutions of some equations in Galois domains whose orders are the product of three distinct odd prime powers. *J. Math. Anal. Appl.* 25 (1969), 18-40. (A. L. Whiteman) 38 #1076

Storey, A. J.

(with McKnight, J. D., Jr.) Equidivisible semigroups. *J. Algebra* 12 (1969), 24-48. (M. Friedberg) 39 #342

Storey, Charles R.

(with Rosenbrock, H. H.) On the computation of the optimal temperature profile in a tubular reaction vessel. *Computing Methods in Optimization Problems (Proc. Conf., Univ. California, Los Angeles, Calif.,* 1964*), pp.* 23-64. *Academic Press, New York,* 1964. (Y.-C. Ho) 29 #5390

(with Barnett, S.) Analysis and synthesis of stability matrices. *J. Differential Equations* 3 (1967), 414-422. (K. R. Meyer) 35 #1876

A description of all globally idempotent threads with zero. *Trans. Amer. Math. Soc.* 130 (1968), 185-207. (P. S. Mostert) 36 #296

(with Hewit, J. R.) Numerical application of Szegö's method of constructing Liapunov functions. *IEEE Trans. Automatic Control* AC-14 (1969), 106-107. (Editors) 40 #5290

(with Barnett, S.; Ford, B.) A comparison of several methods for calculating the general functional matrix for linear systems. *Internat. J. Control* (1) 10 (1969), 677-686. 40 #3922

(with Hewit, J. R.) Comparison of numerical methods in stability analysis. *Internat. J. Control* (1) 10 (1969), 687-701. (Authors' summary) 40 #5291

Storey, S. H.

(with Roberts, F. D. K.) A three-dimensional cluster problem. *Biometrika* 55 (1968), 258-260. (From the authors' introduction) 37 #946

Størmer, Erling

On the Jordan structure of C^*-algebras. *Trans. Amer. Math. Soc.* 120 (1965), 438-447. (R. Arens) 32 #2930

Jordan algebras of type I. *Acta Math.* 115 (1966), 165-184. (R. H. Oehmke) 35 #754

Two-sided ideals in C^*-algebras. *Bull. Amer. Math. Soc.* 73 (1967), 254-257. (L. Longdon) 34 #8210

Large groups of automorphisms of C^*-algebras. *Comm. Math. Phys.* 5 (1967), 1-22. (O. E. Lanford, III) 37 #2012

Types of von Neumann algebras associated with extremal invariant states. *Comm. Math. Phys.* 6 (1967), 194-204. (M. Nakamura) 37 #773

On anti-automorphisms of von Neumann algebras. *Pacific J. Math.* 21 (1967), 349-370. (D. M. Topping) 35 #3455

(with Effros, Edward G.) Jordan algebras of self-adjoint operators. *Trans. Amer. Math. Soc.* 127 (1967), 313-316. (D. M. Topping) 34 #6550

A characterization of pure states of C^*-algebras. *Proc. Amer. Math. Soc.* 19 (1968), 1100-1102. (D. M. Topping) 38 #548

On partially ordered vector spaces and their duals, with applications to simplexes and C^*-algebras. *Proc. London Math. Soc.* (3) 18 (1968), 245-265. (J. W. Bunce) 37 #2013

Irreducible Jordan algebras of self-adjoint operators. *Trans. Amer. Math. Soc.* 130 (1968), 153-166. (L. Longdon) 36 #700

Symmetric states of infinite tensor products of C^*-algebras. *J. Functional Analysis* 3 (1969), 48-68. (Z. Takeda) 39 #3327

(with Doplicher, S.; Kastler, D.) Invariant states and asymptotic abelianness. *J. Functional Analysis* 3 (1969), 419-434. (S. Sankaran) 39 #4686

(with Powers, Robert T.) Free states of the canonical anticommutation relations. *Comm. Math. Phys.* 16 (1970), 1-33. (P. R. Chernoff) 42 #4126

The even CAR-algebra. *Comm. Math. Phys.* 16 (1970), 136-137. (M. Glück) 42 #4128

States and invariant maps of operator algebras. *J. Functional Analysis* 5 (1970), 44-65. (W. B. Arveson) 41 #841

On infinite tensor products of von Neumann algebras. *Amer. J. Math.* 93 (1971), 810-818. (B. J. Vowden) 44 #5792

Störmer, Horand

Das Anwachsen des Verbrauchs von Wirtschaftsgütern als stochastischer Prozess. *Z. Angew. Math. Mech.* 44 (1964), T72-T73. 32 #3849

Zur Überlagerung von Erneuerungsprozesses. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 9-24. (M. F. Neuts) 41 #6328

* Semi-Markoff-Prozesse mit endlich vielen Zuständen. Theorie und Anwendungen. Lecture Notes in Operations Research and Mathematical Systems, Vol. 34. *Springer-Verlag, Berlin-New York,* 1970. vii + 128 *pp.* (S. Ekberg) 44 #3401

Zufällige Überdeckungen auf dem Kreis. (English and Russian summaries) *Z. Angew. Math. Mech.* 51 (1971), 91-96. (R. V. Ambarcumjan) 44 #1071

Storoženko, È. A.

On best approximation of functions of two variables with the aid of polynomials. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 243-247. *Fizmatgiz, Moscow,* 1961. (Ivan Singer) 32 #6119

Best approximation of continuous functions of two variables. (Russian) *Odess. Gos. Univ. Naučn. Ežegodnik* 1961, *vyp.* 2, 74-76. (Bl. Sendov) 35 #7055

The rapidity of approximation of functions by the de la Vallée Poussin means of their orthogonal expansions. (Russian) *Mat. Zametki* 2 (1967), 175-186. (G. G. Lorentz) 36 #603

Approximation by linear methods of summation of orthogonal series. (Russian) *Mat. Zametki* 3 (1968), 345-356. (J. Musielak) 37 #3260

On the question of the order of approximation by Fejér sums. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 39-51. (R. R. Goldberg) 39 #3223

(with Šmandin, Ju. M.) The rate of approximation of orthogonal series by $(C,1)$-means. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 264-275. (V. I. Mel'nik) 41 #4124

Embedding in the class e^D. (Russian) *Mat. Zametki* 10 (1971), 17-24. (J. Friberg) 44 #7274

Storoženko, V. A.

(with Košljakov, V. N.; Ljusin, Ju. B.; Temčenko, M. E.; Šul'man, I. Š.) Stability of solutions of the differential equations for the autonomous determination of the coordinates of a moving object. *Dokl. Akad. Nauk SSSR* 179 (1968), 34-36 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 201-202. (J. M. Skowroński) 38 #2394

Storozhenko, V. A. See Storoženko, V. A.

Storrer, Hans Heiner

Epimorphismen von kommutativen Ringen. *Comment. Math. Helv.* 43 (1968), 378-401. (R. E. MacRae) 39 #4137

Sur les épimorphismes dans la catégorie des anneaux commutatifs. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A263-A265. (P. Abellanas) 37 #5272

Épimorphismes d'anneaux et anneaux des fractions. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A322-A323. (P. Abellanas) 37 #5273

A note on quasi-Frobenius rings and ring epimorphisms. *Canad. Math. Bull.* 12 (1969), 287-292. (T. Hannula) 40 #4306

A characterization of Prüfer domains. *Canad. Math. Bull.* 12 (1969), 809-812. (R. M. Fossum) 40 #7238

(See also Lambek, Joachim, 44 #1685)

Storvick, David A.

Radial limits of quasiconformal functions. *Nagoya Math. J.* 23 (1963), 199-206. (A. A. Armendáriz) 29 #3638

A localization principle for a class of analytic functions. *Nagoya Math. J.* 23 (1963), 207-212. (M. H. Heins) 29 #3639

(with Cameron, R. H.) A translation theorem for analytic Feynman integrals. *Trans. Amer. Math. Soc.* 125 (1966), 1-6. (H. P. McKean, Jr.) 34 #872

(with Cameron, R. H.) Analytic continuation for functions of several complex variables. *Trans. Amer. Math. Soc.* 125 (1966), 7-12. (Joji Kajiwara) 34 #2939

(with Cameron, R. H.) A Lindelöf theorem and analytic continuation for functions of several variables, with an application to the Feynman integral. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.,* 1966*), pp.* 149-156. *Amer. Math. Soc., Providence, R. I.,* 1968. (M. Hervé) 38 #6096

(with Cameron, R. H.) An operator valued function space integral and a related integral equation. *J. Math. Mech.* 18 (1968), 517-552. (M. Schilder) 38 #4643

(with Hayman, W. K.) On normal functions. *Bull. London Math. Soc.* 3 (1971), 193-194. (P. S. Chiang) 44 #4195

Storwick, Robert M.

(with Scholtz, Robert A.) Block codes for statistical synchronization. *IEEE Trans. Information Theory* IT-16 (1970), 432-438. (Authors' summary) 42 #7400

Stoß, Hanns-Jörg

Ein Verfahren zur Berechnung des charakteristischen Exponenten der Differentialgleichung $y'' + (\lambda + 2\lambda_1 \cos x + 2\lambda_2 \cos 2x)y = 0$. *Numer. Math.* 10 (1967), 423-436. (B. Hubbard) 37 #7094 k-Band-Simulation von k-Kopf-Turing-Maschinen. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 309-317. (Author's summary) 44 #3534

Monotonie-Eigenschaften bei Differentialungleichungen über nichtkompaktem Grundbereich. *Numer. Math.* 15 (1970), 61-73. (J. Schröder) 42 #3404

Stoughton, R. W.

(with Lietzke, M. H.; Lietzke, Marjorie P.) A comparison of several methods for inverting large symmetric positive definite matrices. *Math. Comp.* 18 (1964), 449-456. (H. S. Wilf) 29 #4187

Stout, E. L.

(with Rudin, Walter) Boundary properties of functions of several complex variables. *J. Math. Mech.* 14 (1965), 991-1005. (W. Stoll) 32 #230

Bounded holomorphic functions on finite Riemann surfaces. *Trans. Amer. Math. Soc.* 120 (1965), 255-285. (N. L. Alling) 32 #1358

On some restriction algebras. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., New Orleans, La.,* 1965), pp. 6-11. *Scott-Foresman, Chicago, Ill.,* 1966. (A. Browder) 35 #3447

On some algebras of analytic functions on finite open Riemann surfaces. *Math. Z.* 92 (1966), 366-379. (N. L. Alling) 34 #358 (E)

Corrections to: "On some algebras of analytic functions on finite Riemann surfaces". *Math. Z.* 95 (1967), 403-404. (Editors) 34 #2913

Interpolation on finite open Riemann surfaces. *Proc. Amer. Math. Soc.* 18 (1967), 274-278. (N. L. Alling) 34 #6134

A generalization of a theorem of Radó. *Math. Ann.* 177 (1968), 339-340. (H. Tietz) 37 #6447

The second Cousin problem with bounded data. *Pacific J. Math.* 26 (1968), 379-387. (K. Peters) 38 #3467

(with Sidney, S. J.) A note on interpolation. *Proc. Amer. Math. Soc.* 19 (1968), 380-382. (R. H. Cox) 36 #6944

Additional results on modules over polydisc algebras. *Pacific J. Math.* 29 (1969), 427-437. (N. Kuhlmann) 41 #2049

(with Rudin, Walter) Modules over polydisc algebras. *Trans. Amer. Math. Soc.* 138 (1969), 327-342. (N. Kuhlmann) 39 #3034

Some remarks on varieties in polydiscs and bounded holomorphic functions. *Pacific J. Math.* 32 (1970), 813-820. (J. Kajiwara) 41 #2046

Riesz and Laurent decompositions on Riemann surfaces. *Proc. Amer. Math. Soc.* 24 (1970), 324-331. (M. H. Heins) 40 #4448

Stout, W. T., Jr.

(with McCulloh, L. R.) Corresponding residue systems in cyclic extensions of prime degree over algebraic number fields. *J. Number Theory* 1 (1969), 312-325. (H. S. Butts) 39 #6864

Stout, William F.

Some results on the complete and almost sure convergence of linear combinations of independent random variables and martingale differences. *Ann. Math. Statist.* 39 (1968), 1549-1562. (R. H. Farrell) 38 #754

(with Chow, Y. S.) On the expected value of a stopped stochastic sequence. *Ann. Math. Statist.* 40 (1969), 456-461. (P. W. Millar) 39 #1054

Stovall, E. J., Jr.

(with Lewis, H. R., Jr.) Comments on a floating-point version of Nordsieck's scheme for the numerical integration of differential equations. *Math. Comp.* 21 (1967), 157-161. (D. J. Evans) 37 #2452

Stovbun, A. V.

Uniform approximation in a closed region by generalized Faber polynomials. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 849-857. (R. P. Boas, Jr.) 40 #5876

Stöwener, F.

Einfacher Beweis des Wilsonschen Satzes. *Elem. Math.* 23 (1968), 136. 38 #2079

Stoyakovitch, M. See Stojaković, Mirko D.

Stoyan, Dietrich

Über Zusammenhangseigenschaften der Fixpunktmenge einer kompakten kontraktiven Abbildung. *Wiss. Z. Techn. Univ. Dresden* 16 (1967), 1351-1352. (S. Burýsek) 38 #6417

Ein Iterationsverfahren zur numerischen Auflösung von Gleichungssystemen der Bedienungs- und Zuverlässigkeitstheorie. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 77-82. (W. C. Rheinboldt) 41 #2910

(with Stoyan, H.) Monotonieeigenschaften der Kundenwartezeiten im Modell *GI/G/*1. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 729-734. (Authors' summary) 41 #4696

Probleme der Bedienungs- und Dammtheorie bei "unvollständigen Informationen". (English and Russian summaries) *Math. Operationsforsch. Statist.* 2 (1971), *Heft* 1, 51-60. (J. G. C. Templeton) 43 #4156

Stoyan, H.

(with Stoyan, D.) Monotonieeigenschaften der Kundenwartezeite im Modell *GI/G/*1. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 729-734. (Authors' summary) 41 #4696

Stoyanov, D. See Stojanov, D. T.

Strahov, I. A.

A boundary value problem for the half-plane with a boundary condition of the third kind. (Russian) *Differencial'nye Uravnenij* 2 (1966), 1123-1127. (J. Nieto) 34 #1721

The third boundary-value harmonic problem for the half-plane with boundary conditions which contain variable coefficients. (Russian) *Differencial'nye Uravnenija* 5 (1969), 712-723. (T. Kusano) 39 #5960

Strahov, V. N.

On a method of numerical solution of linear integral equations of convolution type. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 533-536. (D. Mangeron) 30 #1622

The problem of obtaining the best numerical method for the transformation of potential fields. I. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1963, 1780-1797 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1963, 1081-1090. (E. Kogbetliantz) 29 #4601

The problem of obtaining the best numerical methods for the transformation of potential fields. II, III. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 55-67; *ibid.* 1964, 68-81 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 30-35; *ibid.* 1964, 36-42. (E. Kogbetliantz) 29 #4602

The problem of obtaining the best numerical method for the transformation of potential fields. IV. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 213-227 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 119-125. (Author's summary) 34 #3986

The theory of the matching method. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 494-509 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 297-304. (E. Kogbetliantz) 31 #3213

The smoothing of observed strengths of potential fields. I, II. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 1479-1493, 1634-1653 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 897-904, 986-995. (E. Kogbetliantz) 31 #4598

A new method for calculating convolution-type integrals. *Izv. Akad. Nauk SSSR Ser. Geofiz.* 1964, 1819-1822 *(Russian); translated as Bull. (Izv.) Acad. Sci. USSR Geophys. Ser.* 1964, 1098-1102. (E. Kogbetliantz) 31 #2570

The problem of obtaining the best numerical method for the transformation of potential fields. V. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1965, 35-47 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1965, 736-742. (S. V. Parter) 34 #3987

An inverse problem in logarithmic-potential theory. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1965, 90-97 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1965, 49-52. (A. Ben-Menahem) 34 #1824

The numerical solution of incorrect problems representable by convolution type integral equations. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 299-302. (S. Maloň) 37 #4521

(with Bakušinskiĭ, A. B.) The solution of certain integral equations of the first kind by the method of successive approximations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 181-185. (G. F. Miller) 37 #3371

The solution of integral equations by the method of integral transforms. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1395-1405. (S. Maloň) 43 #5267

The solution of linear ill-posed problems in Hilbert space. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1490-1495. (P. Saworotnow) 42 #8311

A certain method for the approximate solution of linear ill-posed problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 204-210. (S. Maloň) 43 #4289

Methods for the approximate solution of linear conditonally well posed problems. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 786-788. (S. Maloň) 43 #3876

Strait, Peggy Tang

Sample function regularity for Gaussian processes with the parameter in a Hilbert space. *Pacific J. Math.* 19 (1966), 159-173. (L. A. Shepp) 33 #6692

On Kitagawa's functional integral. *Tôhoku Math. J.* (2) 19 (1967), 75-78. (R. Fischler) 35 #6209

On Berman's version of the Lévy-Baxter theorem. *Proc. Amer. Math. Soc.* 23 (1969), 91-93. (Simeon M. Berman) 39 #7662

A flat integral for functionals defined on sample paths of a Brownian process with the parameter in *N*-dimensional space. *Proc. Amer. Math. Soc.* 25 (1970), 21-23. (J. A. Beekman) 41 #1120

A note on Lévy's Brownian process on the Hilbert sphere. *Proc. Amer. Math. Soc.* 33 (1972), 207-209. (L. A. Shepp) 44 #7646

Strakhov, Nicholas A.

(with Kurz, Ludwik) An upper bound on the zero-crossing distribution. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 364-373. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #7756 (with Kurz, Ludwik) An upper bound on the zero-crossing distribution. *Bell System Tech. J.* 47 (1968), 529-547. (Simeon M. Berman) 37 #5928

Strakhov, V. N. See Strahov, V. N.

Strålberg, Arne Halstein

On the reduction of classical logic. An extension of some theorems of Glivenko and Gödel. *Norske Vid. Selsk. Forh. (Trondheim)* 38 (1965), 94-99 (1966). (D. Nelson) 33 #2536

Stralka, Albert R.

The topological structure of D-classes. *Bull. Austral. Math. Soc.* 1 (1969), 289-295. (K. N. Sigmon) 41 #5541

Rees-simple semigroups. *J. London Math. Soc.* (2) 1 (1969), 705-708. (R. J. Koch) 41 #380

The Green equivalences and dimension in compact semigroups. *Math. Z.* 109 (1969), 169-176. (K. H. Hofmann) 39 #2903

(with Baker, Kirby A.) Compact, distributive lattices of finite breadth. *Pacific J. Math.* 34 (1970), 311-320. (D. R. Brown) 44 #129

Locally convex topological lattices. *Trans. Amer. Math. Soc.* 151 (1970), 629-640. (L. E. Ward, Jr.) 41 #9216

(with Shirley, E. D.) Homomorphisms on connected topological lattices. *Duke Math. J.* 38 (1971), 483-490. (Richard A. Alò) 43 #5497

Strambach, Karl

Reichhaltige Untergruppen geometrischer Gruppen. *Math. Z.* 93 (1966), 243-264. (W. Klingenberg) 34 #1907

Über die Zerlegungsgleichheit von Polygonen bezüglich Untergruppen nichteuklidischer Bewegungsgruppen. *Math. Z.* 93 (1966), 276-288. (H. Salzmann) 34 #660

Über sphärische Möbiusebenen. *Arch. Math. (Basel)* 18 (1967), 208-211. (H. Salzmann) 35 #3537

(with Schleiermacher, Adolf) Über die Gruppe der Projektivitäten in nichtgeschlossenen Ebenen. *Arch. Math. (Basel)* 18 (1967), 299-307. (T. G. Room) 37 #820

Eine Charakterisierung der klassischen Geometrien. *Arch. Math. (Basel)* 18 (1967), 539-544. (H. Salzmann) 36 #3202

Salzmann-Ebenen mit hinreichend vielen Punkt- oder Geradenspiegelungen. *Math. Z.* 99 (1967), 247-269. (H. Salzmann) 36 #3203

Zur Klassifikation von Salzmann-Ebenen mit dreidimensionaler Kollineationsgruppe. *Math. Ann.* 179 (1968), 15-30. (J. Yaqub) 39 #4731

(with Schleiermacher, Adolf) Freie Erweiterungen in der affinen Geometrie und in der Geometrie der Kreise. I. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 22-37. (E. Glock) 41 #6050

Zur Klassifikation von Salzmann-Ebenen mit dreidimensionaler Kollineationsgruppe. II. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 159-169. (J. Yaqub) 42 #8391

(with Schleiermacher, Akolf) Freie Erweiterungen in der affinen Geometrie und in der Geometrie der Kreise. II. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70), 209-226. (E. Glock) 44 #910

Homöomorphismengruppen der reellen Zahlengeraden mit wenig Fixpunkten. *Arch. Math. (Basel)* 20 (1969), 556-560. (H. Salzmann) 40 #2586

(with Plaumann, Peter) Zusammenhängende Quasikörper mit Zentrum. *Arch. Math. (Basel)* 21 (1970), 455-465. (H. J. Weinert) 43 #3308

Zentrale und axiale Kollineationen in Salzmann-Ebenen. *Math. Ann.* 185 (1970), 173-190. (H. Salzmann) 41 #4359

Sphärische Kreisebenen. *Math. Z.* 113 (1970), 266-292. (P. Dembowski) 41 #7510

Zentrale Kreisverwandtschaften und die Heringsche Klassifikation von Möbiusebenen. *Math. Z.* 117 (1970), 41-45. (W. Benz) 43 #3907

Salzmann-Ebenen mit punkttransitiver dreidiemnsionaler Kollineationsgruppe. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 253-267. (J. Yaqub) 42 #8392

Gruppentheoretische Charakterisierungen klassischer desarguesscher und moultonscher Ebenen. *J. Reine Angew. Math.* 248 (1971), 75-116. (F. D. Veldkamp) 44 #897

Stranahan, G.

(with Gartenhaus, S.) Phase transitions in systems of interacting fermions. *Phys. Rev.* (2) 138 (1965), A1346-A1356. (M. D. Girardeau) 32 #3715

Strand, J. L.

Random ordinary differential equations. *J. Differential Equations* 7 (1970), 538-553. (H. P. McDean, Jr.) 41 #1137

Strand, Otto Neall

A method for the computation of the error function of a complex variable. *Math. Comp.* 19 (1965), 127-129. (From the author's introduction) 30 #694

(with Westwater, Ed R.) Statistical estimation of the numerical solution of a Fredholm integral equation of the first kind. *J. Assoc. Comput. Mach.* 15 (1968), 100-114. (Authors' summary) 38 #4064

(with Westwater, Ed R.) Minimum-rms estimation of the numerical solution of a Fredholm integral equation of the first kind. *SIAM J. Numer. Anal.* 5 (1968), 287-295. (G. F. Miller) 38 #1851

Strandberg, M. W. P.

(with Grant, W. J. C.) Statistical theory of spin-spin interactions in solids. *Phys. Rev.* (2) 135 (1964), A715-A726. (R. Kubo) 30 #1806

Strane, Robert E.

(with Vogt, William G.) Stabilization of a class of nonlinear systems using a linear system estimator. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1969), pp.* 313-322. *Univ. of Illinois, Urbana, Ill.,* 1969. (Authors' summary) 41 #8084

Strang, Gilbert

Accutare partial difference methods. II. Non-linear problems. *Numer. Math.* 6 (1964), 37-46. (H.-O. Kreiss) 29 #4215

Unbalanced polynomials and difference methods for mixed problems. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 46-51. (P.-O. Kreiss) 31 #5354

Necessary and insufficient conditions for well-posed Cauchy problems. *J. Differential Equations* 2 (1966), 107-114. (H.-O. Kreiss) 33 #2928

Implicit difference methods for initial-boundary value problems. *J. Math. Anal. Appl.* 16 (1966), 188-198. (H.-O. Kreiss) 34 #5323

(with Miller, John) Matrix theorems for partial differential and difference equations. *Math. Scand.* 18 (1966), 113-133. (H.-O. Kreiss) 35 #206

On strong hyperbolicity. *J. Math. Kyoto Univ.* 6 (1967), 397-417. (H.-O. Kreiss) 36 #529

The nucleus of a set. *Canad. Math. Bull.* 11 (1968), 65-72. (D. A. Woodward) 37 #4226

A variant of Carathéodory's problem. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 43-48. (J. H. Curtiss) 38 #2283

On the construction and comparison of difference schemes. *SIAM J. Numer. Anal.* 5 (1968), 506-517. (A. R. Gourlay) 38 #4057

On multiple characteristics and the Levi-Lax conditions for hyperbolicity. *Arch. Rational Mech. Anal.* 33 (1969), 358-373. (H. Kumano-go) 39 #4509

On numerical ranges and holomorphic semigroups. *J. Analyse Math.* 22 (1969), 299-318. (K. Gustafson) 41 #2463

Hyperbolic initial-boundary value problems in two unknowns. *J. Differential Equations* 6 (1969), 161-171. (N. D. Kazarinoff) 39 #633

Approximating semigroups and the consistency of difference schemes. *Proc. Amer. Math. Soc.* 20 (1969), 1-7. (G. Da Prato) 38 #1561

(with Fix, George) Fourier analysis of the finite element method in Ritz-Galerkin theroy. *Studies in Appl. Math.* 48 (1969), 265-273. (P. G. Ciarlet) 41 #2944

Toeplitz operators in a quarter-plane. *Bull. Amer. Math. Soc.* 76 (1970), 1303-1307. (G. O. Okikiolu) 42 #3595

The finite element method and approximation theory. *Numerical Solution of Partial Differential Equations, II (SYNSPADE* 1970*) (Proc. Sympos., Univ. of Maryland, College Park, Md.,* 1970*), pp.* 547-583. *Academic Press, New York,* 1971. (M. Zlámal) 44 #4926

(with Flaschka, Hermann) The correctness of the Cauchy problem. *Advances in Math.* 6, 347-379 (1971). (H. Kumano-go) 43 #5147

Strantzalos, P.

Wesentliche Fixpunktkomponenten in endlichen Polyedern. *Bull. Soc. Math. Grèce (N.S.)* 9 (1968), *fasc.* 1, 94-112. (E. Fadell) 41 #2658

Strasburger, A.

(with Wawrzyńczyk, A.) Reciprocity theorems in the theory of representations of groups. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 101-105. (G. de B. Robinson) 44 #2851

Strašinina, K. P.

The integration of the equations of motion of a fluid for certain interior problems of aerodynamics. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 631-636. (F. Barański) 39 #7296

An integral of the Navier-Stokes equations for a spatial motion of a viscous incompressible fluid. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 127-129. (Şt. I. Gheorghiţă) 39 #6567

Strašinskaja, F. F.

(with Kračkovskiĭ, S. N.) An algorithm for the solution of a multipoint boundary value problem. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 284 (1968), 21-24. 40 #5960

Strassen, Volker

Asymptotische Abaschätzungen in Shannons Informationstheorie. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962*), pp.* 689-723. *Publ. House Czech. Acad. Sci., Prague,* 1964. (J. Wolfowitz) 29 #3277

Messfehler und Information. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 2, 273-305 (1964). (J. Wolfowitz) 29 #2120

An invariance principle for the law of the iterated logarithm. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 211-226 (1964). (J. W. Lamperti) 30 #5379

The existence of probability measures with given marginals. *Ann. Math. Statist.* 36 (1965), 423-439. (J. Wolfowitz) 31 #1693

A converse to the law of the iterated logarithm. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4 (1965/66), 265-268. (Y. S. Chow) 34 #850

Almost sure behavior of sums of independent random variables and martingales. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1956/66), Vol. II: Contributions to Probability Theory, Part* 1, *pp.* 315-343. *Univ. California Press, Berkeley, Calif.*, 1967. (K. Krickeberg) 35 #4969

Der Satz mit dem iterierten Logarithmus. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 527-532. *Izdat. "Mir", Moscow*, 1968. (W. F. Stout) 40 #917

(with Dudley, R. M.) The central limit theorem and ε-entropy. *Probability and Information Theory (Proc. Internat. Sympos., McMaster Univ., Hamilton, Ont.*, 1968*), pp.* 224-231. *Springer, Berlin*, 1969. (J. Wolfowitz) 43 #5593

Gaussian eliminations is not optimal. *Numer. Math.* 13 (1969), 354-356. (G. Fairweather) 40 #2223

Strasser, Franz

* Über die Verträglichkeit der Verfahren E_p, B_q und S_α der Limitierungstheorie. Von der Technischen Hochschule Stuttgart zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart*, 1967. 38 *pp.* (D. Gaier) 36 #3007

(with Ishiguro, Kazuo; Meyer-König, Werner) Über die Verträglichkeit der Kreisverfahren der Limitierungstheorie bei reellen Ordnungen. *Math. Z.* 120 (1971), 107-123. (W. Beekmann) 43 #6623

Strathdee, J.

Modified perturbation method for spinor electrodynamics. *Phys. Rev.* (2) 135 (1964), B1428-B1429. (J. M. Jauch) 31 #1039

(with Delbourgo, R.; Rashid, M. A.; Salam, Abdus) The U(12) symmetry. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste, 1965), pp.* 455-532. *International Atomic Energy Agency, Vienna*, 1965. (W. Rühl) 34 #7155

(with Delbourgo, R.; Salam, Abdus) U_{12} and broken SU_6 symmetry. *Nuovo Cimento* (10) 36 (1965), 689-692. (K. Kawarabayashi) 33 #2267

(with Salam, Abdus; Charap, J. M.; Matthews, P. T.) *P* and *C* properties of the Ũ(12) multiplets. *Phys. Lett.* 15 (1965), 184-185. (P. Singer) 32 #3626

(with Delbourgo, R.; Leung, Y. C.; Rashid, M. A.) Ũ(12) predictions for $p\bar{p}$ annihilation into mesons. *Phys. Rev. Lett.* 14 (1965), 609-611. (N. P. Chang) 31 #4451

(with Delbourgo, R.; Rashid, M. A.) Spin-2^+ meson decays in broken Ũ(12). *Phys. Rev. Lett.* 14 (1965), 719-721. (S. P. Rosen) 31 #3093

(with Salam, A.; Delbourgo, R.) The covariant theory of strong interaction symmetries. *Proc. Roy. Soc. Ser. A* 284 (1965), 146-158. (F. A. E. Pirani) 30 #2855

(with Delbourgo, R.; Salam, A.) Relativistic extension of non-compact symmetry groups. *Proc. Roy. Soc. Ser. A* 289 (1966), 177-191. (A. O. Barut) 32 #8836

(with Salam, A.) On the coupling of non-compact group representations. *Proc. Roy. Soc. Ser. A* 292 (1966), 314-321. (R. Delbourgo) 33 #3692

(with Salam, Abdus) Nonlinear realizations. I. The role of Goldstone bosons. *Phys. Rev.* (2) 184 (1969), 1750-1759. (T. Yao) 42 #1425

(with Salam, Abdus) Nonlinear realizations. II. Conformal symmetry. *Phys. Rev.* (2) 184 (1969), 1760-1768. (T. Yao) 42 #1426

(with Delbourgo, R.; Salam, Abdus) Infinities of nonlinear and Lagrangian theories. *Phys. Rev.* (2) 187 (1969), 1999-2007. (R. L. Ingraham) 41 #1302

(with Isham, C. J.; Salam, Abdus) Nonlinear realizations of space-time symmetries. Scalar and tensor gravity. *Ann. Physics* 62 (1971), 98-119. (M. Carmeli) 43 #2960

Stratigopoulos, Dimitrios

Hyperanneaux non commutatifs: Hyperanneaux, hypercorps, hypermodules, hyperspaces vectoriels et leurs propriétés élémentaires. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A489-A492. (O. Steinfeld) 41 #5430a

Hyperanneaux non commutatifs: Le radical d'un hyperanneau, somme sous-directe des hyperanneaux, hyperanneaux artiniens et théorie des éléments idempotents. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A627-A629. (O. Steinfeld) 41 #5430b

Hyperanneaux non commutatifs: Hyperanneaux artiniens, centralisateur d'un hypermodule et théorème de densité. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A889-A891. (O. Steinfeld) 41 #5430c

Strătilă, Şerban

(with Arsene, Gr.) Prolongement des mesures vectorielles. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 333-338. (N. Dinculeanu) 32 #180

Elements of harmonic analysis. I, II. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1209-1245; *ibid.* 19 (1967), 1473-1511. (V. Istrăţescu (Zbl 171, 118)) 40 #7728

(with Foiaş, Ciprian) Ensembles de Kronecker dans la théorie ergodique. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A166-A168. (E. S. Boylan) 38 #1234

Elements of harmonic analysis. III. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 347-426. (V. Istrăţescu (Zbl 169, 179)) 41 #2304

Elements of harmonic analysis. IV. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 867-926. (V. Istrăţescu (Zbl 169, 179)) 40 #3187

Stratilatova, M. B.

(with Burago, Ju. D.) A circumference on a surface. (Russian) *Trudy Mat. Inst. Steklov.* 76 (1965), 88-114. (L. C. Young) 34 #3508

Certain geometric loci of points on a surface. (Russian) *Trudy Mat. Inst. Steklov.* 76 (1965), 115-119. (E. J. F. Primrose) 33 #4806

Stratonovič, R. L.

On conditional Markov processes. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 411-423. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius*, 1962. (Petr Mandl) 32 #3134

On a infinitesimal operator of the Markov process. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 169-172. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius.* 1962. (G. Hufford) 32 #8399

On the probability functional of diffusion processes. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*) (Russian), pp.* 471-482. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius*, 1962. (A. Širjaev (RŽMat 1963 #7 B142)) 34 #5164

On the theory of optimal control. Sufficient coordinates. *Avtomat. i Telemeh.* 23 (1962), 910-917 *(Russian. English summary); translated as Automat. Remote Control* 23 (1963), 847-854. (R. Kalaba) 29 #6981

(with Kolosov, G. E.) A problem on optimal control synthesis which can be solved by dynamic programming methods. (Russian. English summary) *Avtomat. i Telemeh.* 24 (1963), 1165-1173. (W. H. Fleming) 29 #1103

Conditional Markov processes in problems of mathematical statistics, dynamic programming and game theory. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*),(Russian), Vol. II. pp.* 370-379. *Izdat. "Nauka", Leningrad*, 1964. (V. Prelov (RŽMat 1964 #8 V45)) 36 #4664

(with Dobrovidov, A. V.) On the design of optimal automata functioning in random media. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1433-1441. (Authors' summary) 29 #5693

(with Kolosov, G. E.) An asymptotic method of solving design problems for optimal controllers. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1641-1655. (J. Chover) 30 #5876

(with Sosulin, Ju. G.) Optimal detection of a Markov process in noise. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 6, 10-22. (S. Kotz) 32 #2264

(See also Non-linear transformations of stochastic processes, 32 #3120)

(with Ponomarev, Ju. V.) Solution of a diffusion alternative equation by means of equations in total derivatives. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 443-453. (W. M. Wonham) 31 #1134

(with Kolosov, G. E.) Optimal control in quasiharmonic systems. *Avtomat. i Telemeh.* 26 (1965), 601-614 *(Russian, English summary); translated as Automat. Remote Control* 26 (1965), 602-615. (S. Roy Schubert) 31 #5750

Quantity of information transmitted by a quantum communication channel. I. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 116-128. (Author's summary) 32 #7336

Quantity of information transmitted by a quantum communication channel. II. (Russain. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 129-141. (Author's summary) 32 #7337

(with Sosulin, Ju. G.) Optimum detection of a diffusion process in white noise. *Radiotehn. i Elektron.* 10 (1965), 827-838 *(Russian) translated as Radio Engrg. and Electron. Phys.* 10 (1965), 704-714. 32 #9128

(with Žil'kov, È. A.) Certain relations between thermodynamic functions and their information-theoretic interpretation. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom* 1965, *no.* 2, 44-52. (R. Cirelli) 36 #1178

* Условные Марковские процессы и их применение к теории оптимального управления. (Russian) [Conditional Markov processes and their application to the theory of optimal control] *Izdat. Moskov. Univ., Moscow*, 1966. 319 *pp.* (W. M. Wonham) 33 #5391

The speed of transmitting information in certain quantum communication channels. (Russian) *Problemy Peredači Informacii* 2 (1966), *vyp.* 1, 45-57. 33 #5396

A new representation for stochastic integrals and equations. *SIAM J. Control* 4 (1966), 362-371. (Editors) 33 #5000

The maximum principle and statistical optimal control problems. (Russian) *Optimal Systems of Automatic Control (Russian), pp.* 102-125. *Izdat. "Nauka", Moscow*, 1967. (W. M. Wonham) 37 #3869

On a generalization of the maximum principle of Pontrjagin. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 1, 3-7. (P. Sagirow) 35 #4045

Extremal problems of information theory and dynamic programming *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 5, 63-77 *(Russian); translated as Engrg. Cybernetics* 1967, *no.* 5, 54-69 (1968). (Author's summary) 40 #6951

* Conditional Markov processes and their application to the theory of optimal control. Translated from the Russian by R. N. and N. B. McDonough for Scripta Technica, Inc. Modern Analytic and Computational Methods in Science and Mathematics, No. 7. *American Elsevier Publishing Co., Inc., New York*, 1968. xvii + 350 *pp.* (Editors) 36 #4912

Does there exist a theory of synthesis of optimal adaptive, self-learning, and self-adaptive systems? *Avtomat. i Telemah.* 1968, *no.* 1, 96-107 *(Russian. English summary); translated as Automat. Remote Control* 1968, *no.* 1, 83-92. (P. E. Sarachik) 39 #5210

(with Grašanin, B. A.) Game problems with information-tape restraints. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 1, 3-12 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 1, 1-10. (N. Zierler) 39 #3833

The efficiency of methods of mathematical statistics in problems of the synthesis of algorithms for constructing an unknown function. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 1, 32-46 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 1, 30-46. (R. R. Coveyou) 40 #3634

Optimal extension of a functional subspace with algorithms for renewal of the distribution density and distribution function. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 2, 57-64 *(Russian); translated as Engrg. Cybernetics* 1970, *no.* 2, 250-257 (1971). (J. Galambos) 43 #946

(with Mamaev, D. D.) An optimal adaptive estimation of a priori nonconstant distribution parameters. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 481-490. (N. L. Johnson) 44 #1172

(with Mirkin, L. I.) A comparison of the linear and the nonlinear method of interpolation and extrapolation of a Markov signal. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 25 (1970), *no.* 1, 26-34. (L. I. Gal'čuk) 44 #6395

Contribution to the quantum nonlinear theory of thermal fluctuations. *Ž. Èksper. Teoret. Fiz.* 58 (1970), 1612-1622 *(Russian. English summary); translated as Soviet Physics JETP* 31 (1970), 864-869. (O. Penrose) 44 #6285

Stratonovich, R. L. See Stratonovič, R. L.

Stratopoulos, George M.

(with Wylie, C. R., Jr.) A rational twisted sextic with six inflexions which does not belong to a linear complex. *Bull. Soc. Math. Grèce (N.S.)* 8 (1967), *fasc.* 1, 49-54. (P. Du Val) 38 #2137

(with Wylie, C. R., Jr.) The uniqueness of a certain line involution. *Proc. Amer. Math. Soc.* 19 (1968), 1283-1289. (S. S. Subramanyam) 38 #1588

Stratton, A. E.

A note on ext-completions. *J. Algebra* 17 (1971), 110-115. (J. Rotman) 42 #1894

On the splitting of rank one Abelian groups. *J. Algebra* 19 (1971), 254-260. (J. D. Reid) 43 #4911

Stratton, Howard H., Jr.

On dimension of support for stochastic processes with independent increments. *Trans. Amer. Math. Soc.* 132 (1968), 1-29. (J. L. Denny) 37 #2310

(with Binmore, K. G.) A note on characteristic functions. *Ann. Math. Statist.* 40 (1969), 303-307. (E. Lukacs) 38 #3899

On continua which resemble simple closed curves. *Fund. Math.* 68 (1970), 121-128. (J. Segal) 41 #7639

(with Brown, H. I.) Conullity of operators on some FK-spaces. *Proc. Amer. Math. Soc.* 25 (1970), 717-727. (W. Beekmann) 41 #5838

Mixed modules over an incomplete discrete valuation ring. *Proc. London Math. Soc.* (3) 21 (1970), 201-218. (J. Rotman) 42 #7653

(with Baum, Leonard E.; Katz, Melvin) Strong laws for ruled sums. *Ann. Math. Statist.* 42 (1971), 625-629. (H. Bergström) 44 #7608

(with Brown, H. I.) Some FK spaces that are conservative summability fields. *J. London Math. Soc.* (2) 3 (1971), 363-370. (D. L. Prullage) 43 #5212

Strauch, Ralph E.

Conditional expectations of random variables without expectations. *Ann. Math. Statist.* 36 (1965), 1556-1559. (C. V. Stanojevic) 31 #5232

(with Brown, T. A.) Dynamic programming in multiplicative lattices. *J. Math. Anal. Appl.* 12 (1965), 364-370. (H. F. Karreman) 32 #2248

(with Derman, Cyrus) A note on memoryless rules for controlling sequential control processes. *Ann. Math. Statist.* 37 (1966), 276-278. (R. S. Bucy) 32 #2250

Negative dynamic programming. *Ann. Math. Statist.* 37 (1966), 871-890. (J. N. Kapur) 33 #2456

Measurable gambling houses. *Trans. Amer. Math. Soc.* 126 (1967), 64-72. (L. J. Savage) 34 #5181

Straumann, N.

(with Kamber, F.) Gruppenextensionen in der Quantentheorie. *Helv. Phys. Acta* 37 (1964), 563-584. (R. Hermann) 34 #1046

(with Biedenharn, L. C.; Nuyts, J.) On the unitary representations of SU(1,1) and SU(2,1). *Ann. Inst. H. Poincaré Sect. A (N.S.)* 3 (1965), 13-39. (R. Keown) 33 #3678

On the Clebsch-Gordan series of semisimple Lie algebras. *Helv. Phys. Acta* 38 (1965), 56-64. (R. Steinberg) 32 #2516

(with Nuyts, J.) Baryon-meson couplings and baryon magnetic moments in a relativistic generalization of the Wigner SU_4 supermultiplet theory. (Italian summary) *Nuovo Cimento A* (10) 40 (1965), 868-873. (K. T. Mahanthappa) 33 #1073

(with Biedenharn, L. C.; Nuyts, J.) A remark on magnetic moments in the SU_4 supermultiplet model. *Phys. Lett.* 16 (1965), 92-93. (M. A. B. Bég) 32 #2104

Application of current algebras. *Cargèse Lectures in Theoretical Physics: Application of Mathematics to Problems in Theoretical Physics (Cargèse,* 1965*), pp.* 491-507. *Gordon and Breach Science Publ., New York,* 1967. (G. R. Allcock) 37 #3819

A new proof of von Neumann's theorem concerning the uniqueness of the Schrödinger operators. *Helv. Phys. Acta* 40 (1967), 518-524. (C. R. Putnam) 36 #737

Štraus, A. V.

Expansion in eigenfunctions of certain one dimensional boundary value problems. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 110-115. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (George Biriuk) 33 #4725

Certain questions of the theory of extension of symmetric nonselfadjoint operators. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No. I (Russian), pp.* 121-124. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. (G. Biriuk) 34 #4913

Selfadjoint operators in the orthogonal sum of two Hilbert spaces. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No. I (Russian), pp.* 125-128. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. 34 #1855

On the spectral theory of symmetric operators. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 221-226. (George Biriuk) 33 #4688

Extensions of a symmetric operator depending on a parameter. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1389-1416. (R. C. Gilbert) 34 #3338

One-parameter families of extensions of a symmetric operator. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1325-1352. (R. C. Gilbert) 34 #3339

Extensions, characteristic functions and generalized resolvents of symmetric operators. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 790-792. (L. de Branges) 36 #5748

Extensions and characteristic function of a symmetric operator. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 186-207. (T. Ando) 37 #788

Extensions and generalized resolvents of a non-densely defined symmetric operator. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 175-202. (Chandler Davis) 43 #3830

Straus, Ernst G.

Two comments on Dvoretzky's sphericity theorem. *Israel J. Math.* 1 (1963), 221-223. (B. R. Gelbaum) 29 #515

(with Erdős, P.) On the irrationality of certain Ahmes series. *J. Indian Math. Soc. (N.S.)* 27 (1963), 129-133 (1964). (K. Mahler) 31 #124

(with Erdős, P.; Gordon, B.; Rubel, L. A.) Tauberian theorems for sum sets. *Acta Arith.* 9 (1964), 177-189. (N. G. de Bruijn) 29 #3417

(with Redheffer, R. M.) Degenerate elliptic equations. *Pacific J. Math.* 14 (1964), 265-268. (Stanley Kaplan) 29 #4979

(with Gordon, Basil) On the degrees of the finite extensions of a field. *Proc. Sympos. Pure Math., Vol. VIII, pp.* 56-65. *Amer. Math. Soc., Providence, R. I.,* 1965. (E. Inaba) 30 #4756

Rational dependence in finite sets of numbers. *Acta Arith.* 11 (1965), 203-204. (E. Inaba) 32 #1158

(with Motzkin, T. S.) Maxima for graphs and a new proof of a theorem of Turán. *Canad. J. Math.* 17 (1965), 533-540. (F. Harary) 31 #89

(with Sato, Daihachiro) On the rate of growth of Hurwitz functions of a complex or *p*-adic variable. *J. Math. Soc. Japan* 17 (1965), 17-29. (A. Edrei) 33 #257

(with Katz, Paul) Infinite sums in algebraic structures. *Pacific J. Math.* 15 (1965), 181-190. (S. B. Prešić) 33 #460

(with Sato, Daihachiro) Generalized interpolation by analytic functions. *Bull. Amer. Math. Soc.* 72 (1966), 32-36. (T. J. Rivlin) 36 #1670

On a problem of R. Bellman. *J. Math. Anal. Appl.* 14 (1966), 427-432. (Henry Hermes) 32 #7812

(with Sato, Daihachiro) Generalised interpolation by analytic functions. *J. Math. Sci.* 1 (1966), 53-76. (S. M. Shah) 34 #2884

On a problem in combinatorial number theory. *J. Math. Sci.* 1 (1966), 77-80. (P. Erdős) 34 #1295

(with Rubel, L. A.) Special trigonometric series and the Riemann hypothesis. *Math. Scand.* 18 (1966), 35-44. (S. Knapowski) 34 #2543

On a problem of Erdős in combinatorial number theory. *Studia Sci. Math. Hungar.* 1 (1966), 411-412. (T. M. Apostol) 34 #2554

(with Erdős, Paul) Über eine geometrische Frage von Fejes-Tóth. *Elem. Math.* 23 (1968), 11-14. (H. W. Guggenheimer) 37 #2068

(with Kelly, Paul) Curvature in Hilbert geometries. II. *Pacific J. Math.* 25 (1968), 549-552. (P. Scherk) 38 #613

(See also Proceddings of Symposia in Pure Mathematics, 40 #2592)

(with Cantor, David G.; Hilliker, D. L.) Interpolation by analytic functions of bounded growth. *Aequationes Math.* 2 (1969), 337-347. (T. Kövari) 40 #7430

(with Motzkin, T. S.) Divisors of polynomials and power series with positive coefficients. *Pacific J. Math.* 29 (1969), 641-652. (J.-P. Lafon) 39 #7129 (with Neidleman, L. D.) Functions whose derivatives at one point form a finite set. *Trans. Amer. Math. Soc.* 140 (1969), 411-422. (S. M. Shah) 39 #2983

(with Sato, Daihachiro) p-adic proof of non-existence of proper prime representing algebraic functions and related problems. *J. London Math. Soc.* (2) 2 (1970), 45-48. (W.-D. Geyer) 40 #2599

(with Adams, W. W.) Non-archimedian analytic functions taking the same values at the same points. *Illinois J. Math.* 15 (1971), 418-424. (A. F. Monna) 43 #3504

(with Erdős, P.) Some number theoretic results. *Pacific J. Math.* 36 (1971), 635-646. (J. B. Kelly) 43 #7413

Strauss, Aaron

Liapunov functions and global existence. *Bull. Amer. Math. Soc.* 71 (1965), 519-520. (J. O. C. Ezeilo) 30 #4035

Liapunov functions and L^p solutions of differential equations. *Trans. Amer. Math. Soc.* 119 (1965), 37-50. (C. S. Coleman) 31 #2461

On the stability of a perturbed nonlinear system. *Proc. Amer. Math. Soc.* 17 (1966), 803-807. (K. W. Chang) 33 #4396

(with Kato, Junji) On the global existence of solutions and Liapunov functions. (Italian summary) *Ann. Mat. Pura Appl.* (4) 77 (1967), 303-316. (T. Yoshizawa) 37 #1720

A note on a global existence result of R. Conti. *Boll. Un. Mat. Ital.* (3) 22 (1967), 434-441. (T. Yoshizawa) 37 #1673

(with Yorke, James A.) Perturbation theorems for ordinary differential equations. *J. Differential Equations* 3 (1967), 15-30. (F. Bauer) 34 #3029

(with Yorke, James A.) On asymptotically autonomous differential equations. *Math. Systems Theory* 1 (1967), 175-182. (T. Yoshizawa) 35 #4524

* An introduction to optimal control theory. Lecture Notes in Operations Research and Mathematical Economics, Vol. 3. *Springer-Verlag, Berlin-New York,* 1968. v + 153 *pp.* (B. Paiewonsky) 38 #1375

The use of Liapunov functions for global existence. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 76-82. *Springer, Berlin,* 1968. (Editors) 38 #2362

Recent results in perturbation theory. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 1-6. *Springer, Berlin,* 1968. (Editors) 38 #2401

(with Yorke, James A.) Perturbing asymptotically stable differential equations. *Bull. Amer. Math. Soc.* 74 (1968), 992-996. (T. Yoshizawa) 37 #6555

(with Jones, G. Stephen) An example of optimal control. *SIAM Rev.* 10 (1968), 25-55. (E. B. Lee) 39 #1224

(with Yorke, James A.) Perturbing uniform asymptotically stable nonlinear systems. *J. Differential Equations* 6 (1969), 452-483. (D. Wexler) 40 #5998

(with Yorke, James A.) Identifying perturbations which preserve asymptotic stability. *Proc. Amer. Math. Soc.* 22 (1969), 513-518. (J. Kato) 39 #5892

(with Yorke, James A.) Perturbing uniformly stable linear systems with and without attraction. *SIAM J. Appl. Math.* 17 (1969), 725-738. (N. Onuchic) 40 #5999

(with Yorke, James A.) On the fundamental theory of differential equations. *SIAM Rev.* 11 (1969), 236-246. (L. D. Fountain) 40 #431

On a perturbed Volterra integral equation. *J. Math. Anal. Appl.* 30 (1970), 564-575. (H. E. Gollwitzer) 41 #5906

(with Brauer, Fred) Perturbations of nonlinear systems of differential equations. III. *J. Math. Anal. Appl.* 31 (1970), 37-48. (W. M. Whyburn) 41 #3919

(with Lukes, D. L.) Two countable systems of differential inequalities with applications to the stability of linear quadratic differential games. *J. Math. Anal. Appl.* 32 (1970), 512-531. (J. Fichefet) 43 #4487

(with Yorke, James A.) Linear perturbations of ordinary differential equations. *Proc. Amer. Math. Soc.* 26 (1970), 255-260. (R. P. de Figueiredo) 41 #3920

(with Lasota, Andrzej; Walter, Wolfgang) Infinite systems of differential inequalities defined recursively. *J. Differential Equations* 9 (1971), 93-107. (J. W. Bebernes) 43 #664

(with Lasota, A.) Asymptotic behavior for differential equations which cannot be locally linearized. *J. Differential Equations* 10 (1971), 152-172. (K. E. Swick) 43 #3570

Strauss, Dona

(with Fishel, B.) A note on hyperdiffuse measures. *J. London Math. Soc.* 39 (1964), 245-254. (U. D'Ambrosio) 29 #2351

Congruence relations in semi-lattices. *J. London Math. Soc.* 39 (1964), 723-729. (E. T. Schmidt) 29 #3401

(with Dowker, C. H.) Quotient frames and subspaces. *Proc. London Math. Soc.* (3) 16 (1966), 275-296. (D. R. Brown) 34 #2510

(with Dowker, C. H.) On Urysohn's lemma. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos., 1966), pp.* 111-114. *Academia, Prague,* 1967. (O. Frink) 39 #108

Extremally disconnected spaces. *Proc. Amer. Math. Soc.* 18 (1967), 305-309. (S. A. Naimpally) 35 #961

Topological lattices. *Proc. London Math. Soc.* (3) 18 (1968), 217-230. (S. P. Franklin) 37 #3532

(with Crowell, R. H.) On the elementary ideals of link modules. *Trans. Amer. Math. Soc.* 142 (1969), 93-109. (L. Neuwirth) 40 #889

Strauss, Henry

(with Robinson, Ivor; Schild, Alfred) A generalized Reissner-Nordström solution. *Internat. J. Theoret. Phys.* 2 (1969), 243-245. (P. S. Florides) 41 #6544

Strauss, Martin

On a generalized Lorentz transformation. *Ann. Physik* (7) 16 (1965), 105-113. (Mary L. Boas) 34 #2319

On the Voigt-Palacios-Gordon transformation and the kinematics implied by it. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 658-666. (R. L. Ingraham) 33 #1126

Strauss, Paul

Some systems of natural deduction. *Notre Dame J. Formal Logic* 8 (1967), 286-290. (A. S. Troelstra) 38 #4278

Strauss, Walter Alexander

Les opérateurs d'onde pour des équations d'onde non linéaires indépendantes du temps. *C. R. Acad. Sci. Paris* 256 (1963), 5045-5046. (Author's summary) 32 #4391

(with Lions, Jacques-Louis) Sur certains problèmes hyperboliques non linéaires. *C. R. Acad. Sci. Paris* 257 (1963), 3267-3270. (G. Prodi) 29 #3905

Scattering for hyperbolic equations. *Trans. Amer. Math. Soc.* 108 (1963), 13-37. (J. Horváth) 33 #412

(with Lions, Jacques-Louis) Some non-linear evolution equations. *Bull. Soc. Math. France* 93 (1965), 43-96. (T. Kato) 33 #7663

Evolution equations non-linear in the time derivative. *J. Math. Mech.* 15 (1966), 49-82. (T. Kato) 32 #8217

On continuity of functions with values in various Banach spaces. *Pacific J. Math.* 19 (1966), 543-551. (D. E. Edmunds) 34 #4956

The initial-value problem for certain non-linear evolution equations. *Amer. J. Math.* 89 (1967), 249-259. (Melvyn S. Berger) 36 #553

On the solutions of abstract nonlinear equations. *Proc. Amer. Math. Soc.* 18 (1967), 116-119. (Melvyn S. Berger) 36 #746

Decay and asymptotics for $\Box u = F(u)$. *J. Functional Analysis* 2 (1968), 409-457. (D. E. Edmunds) 38 #1385

* The energy method in nonlinear partial differential equations. Notas de Matemática, No. 47. *Instituto de Matemática Pura e Aplicada, Conselho Nacional de Pesquisas, Rio de Janeiro,* 1969. ii + 154 *pp.* (G. F. Webb) 42 #8051

Further applications of monotone methods to partial differential equations. *Nonlinear Functional Analysis (Proc. Sympos. Pure Math., Vol. XVIII, Part 1, Chicago, Ill., 1968), pp.* 282-288. *Amer. Math. Soc., Providence, R. I.,* 1970. (G. F. Webb) 42 #8113

Local exponential decay of a group of conservative nonlinear operators. *J. Functional Analysis* 6 (1970), 152-156. (J.-P. Gossez) 43 #728

Strauß, Werner

Funktionalanalytische Fassung des Satzes von Radon-Nikodým. I. *J. Reine Angew. Math.* 249 (1971), 92-132. (W. A. J. Luxemburg) 44 #397

Strawderman, William E.

(with Holmes, Paul T.) A note on the waiting times between record observations. *J. Appl. Probability* 6 (1969), 711-714. (J. Keilson) 41 #2798

(with Holmes, Paul T.) On the law of the iterated logarithm for inter-record times. *J. Appl. Probability* 7 (1970), 432-439. (M. F. Neuts) 41 #6282

(with Cohen, Arthur) Admissibility of estimators of the mean vector of a multivariate normal distribution with quadratic loss. *Ann. Math. Statist.* 42 (1971), 270-296. (J. Kiefer) 43 #7011

(with Cohen, Arthur) Unbiasedness of tests for homogeneity of variances. *Ann. Math. Statist.* 42 (1971), 355-360. 43 #1316

Stray, Arne

An approximation theorem for subalgebras of H^∞. *Pacific J. Math.* 35 (1970), 511-515. (M. Abel) 43 #2515

Strazdin', I. See Strazdiņš, I. Ē.

Strazdiņš, I. Ē.

On the number of types of l-adic functions. (Russian. Latvian and English summaries) *Rīgas Politehn. Inst. Zinātn. Raksti.* 10 (1963), *vyp.* 1, 167-186. (Author's summary) 33 #2486

Types of three-valued switching functions of two variables. (Russian. English summary) *Latvijas Valsts Univ. Zinātn. Raksti* 58 (1964), *vyp.* 2, 27-42. (J. Kuntzmann) 31 #5765

Automorphism groups of an algebra of Boolean functions, and Post classes. (Russian) *Proceedings of the Riga Seminar on Algebra (Russian), pp.* 253-266. *Latv. Gos. Univ., Riga,* 1969. (Robert M. Baer) 42 #7492

Streater, R. F.

Axioms for multi-local fields. *Proc. Phys. Soc.* 83 (1964), 549-552. (H. Araki) 30 #4505

On quasi-free polylocal fields and fields of infinite spin. *Ann. Physics* 30 (1964), 1-9. (H. Araki) 31 #3037

Intensive observables in quantum theory. *J. Mathematical Phys.* 5 (1964), 581-590. (R. Haag) 29 #941

Almost local field theories of the *S* matrix. *Phys. Rev.* (2) 136 (1964), B1748-B1755. (H. Araki) 31 #3038

Broken symmetries and the Goldstone theorem. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste, 1965), pp.* 781-788. *International Atomic Energy Agency, Vienna,* 1965. (C. R. Hagen) 34 #3917

Generalized Goldstone theorem. *Phys. Rev. Lett.* 15 (1965), 475-476. (C. R. Hagen) 32 #776

Spontaneous breakdown of symmetry in axiomatic theory. *Proc. Roy. Soc. Ser. A* 287 (1965), 510-518. (R. Haag) 32 #5133

Canonical quantization. *Comm. Math. Phys.* 2 (1966), 354-374. (Author's summary) 36 #3550

(with Charap, J. M.; Matthews, P. T.) The irreducible representations of $\tilde{U}(12)$. *Proc. Roy. Soc. Ser. A* 290 (1966), 24-43. (Jean Nuyts) 34 #1043

The representations of the oscillator group. *Comm. Math. Phys.* 4 (1967), 217-236. (A. Kihlberg) 34 #7721

The Heisenberg ferromagnet as a quantum field theory. *Comm. Math. Phys.* 6 (1967), 233-247. (Y. Kato) 37 #3827

On certain non-relativistic quantized fields. *Comm. Math. Phys.* 7 (1968), 93-98. (T. Kato) 37 #6088

(with Wulfsohn, A.) Continuous tensor products of Hilbert spaces and generalized random fields. (Italian and Russian summaries) *Nuovo Cimento B* (10) 57 (1968), 330-339. (Authors' summary) 38 #1891

A continuum analogue of the lattice gas. *Comm. Math. Phys.* 12 (1969), 226-232. (R. Høegh-Krohn) 39 #7888

(with Wilde, I. F.) The time evolution of quantized fields with bounded quasi-local interaction density. *Comm. Math. Phys.* 17 (1970), 21-32. (M. E. Mayer) 42 #2763

Strebel, Kurt

Zur Frage der Eindeutigkeit extremaler quasikonformer Abbildungen des Einheitskreises. *Comment. Math. Helv.* 36 (1961/62), 306-323. (V. Singh) 29 #1331

Zur Frage der Eindeutigkeit extremaler quasikonformer Abbildungen des Einheitskreises. II. *Comment. Math. Helv.* 39 (1964), 77-89. (G. C. Sethares) 31 #346

Über quadratische Differentiale mit geschlossenen Trajektorien und extremale quasikonforme Abbildungen. *Festband* 70. *Geburtstage R. Nevanlinna, pp.* 105-127. *Springer, Berlin,* 1966. (L. V. Ahlfors) 35 #368

Bemerkungen über quadratische Differentiale mit geschlossenen Trajektorien. *Ann. Acad. Sci. Fenn. Ser. A I No.* 405 (1967), 12 *pp.* (H. Renggli) 36 #6612

On quadratic differentials with closed trajectories and second order poles. *J. Analyse Math.* 19 (1967), 373-382. (L. V. Ahlfors) 37 #407

Ein Konvergenzsatz für Folgen quasikonformer Abbildungen. *Comment. Math. Helv.* 44 (1969), 469-475. (H. Renggli) 40 #7444

(with Reich, Edgar) On quasiconformal mappings which keep the boundary points fixed. *Trans. Amer. Math. Soc.* 138 (1969), 211-222. (H. Renggli) 38 #6059

(with Reich, Edgar) Einige Klassen Teichmüllerscher Abbildungen, die die Randpunkte festhalten. *Ann. Acad. Sci. Fenn. Ser. A I No.* 457 (1970), 19 *pp.* (H. Renggli) 42 #495

(with Reich, Edgar) On the extremality of certain Teichmüller mappings. *Comment. Math. Helv.* 45 (1970), 353-362. (R. Kühnau) 43 #514

(with Reich, Edgar) Teichmüller mappings which keep the boundary pointwise fixed. *Advances in the Theory of Riemann Surfaces (Proc. Conf., Stony Brook, N. Y., 1969), pp.* 365-367. *Ann of Math. Studies, No.* 66. *Princeton Univ. Press, Princeton, N. J.,* 1971. (Editors) 43 #6425

Streckeisen, Paul Theophil

Une propriété de certaines matrices infinies. *C. R. Acad. Sci. Paris* 256 (1963), 1902-1903. (J. M. Bennett) 30 #106

* Die Konvergenz der Abschnittsinversen von speziellen unendlichen Matrizen. Abhandlung zur Erlangung der Würde eines Doktors der Mathematik der Eidgenössischen Technischen Hochschule, Zürich. Diss. Nr. 3758. *Juris Verlag, Zürich,* 1966. 98 *pp.* (I. M. Sheffer) 37 #4093

Strecker, George E.

(with Wattel, E.) A coherent embedding of an arbitrary topological space in a semi-regular space. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1966, ZW-006, 11 *pp.* (Authors' summary) 39 #923

(with de Groot, J.; Wattel, E.) The compactness operator in general topology. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos., 1966), pp.* 161-163. *Academia, Prague,* 1967. (Ann K. Steiner) 38 #657

(with Wattel, E.) On semi-regular and minimal Hausdorff embeddings. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 234-237. (Ann K. Steiner) 35 #2261

(with Wattel, E.; Herrlich, H.; Groot, J.) Strengthening Alexander's subbase theorem. *Duke Math. J.* 35 (1968), 671-676. (S. Negrepontis) 37 #6912

(with Herrlich, H.) *H*-closed spaces and reflective subcategories. *Math. Ann.* 177 (1968), 302-309. (M. Katětov) 38 #2744

(with de Groot, J.; Herrlich, H.; Wattel, E.) Compactness as an operator. *Compositio Math.* 21 (1969), 349-375. (Ann K. Steiner) 41 #4490

(with Viglino, G.) Cotopology and minimal Hausdorff spaces. *Proc. Amer. Math. Soc.* 21 (1969), 569-574. (J. W. Rogers, Jr.) 39 #2115

(with Herrlich, Horst) Coreflective subcategories. *Trans. Amer. Math. Soc.* 157 (1971), 205-226. (A. Pultr) 43 #6281

Strecker, Joseph L.

One-dimensional phase transition. *J. Mathematical Phys.* 10 (1969), 1541-1554. (T. Arai) 41 #1339

Strecker, Reinhard

Verallgemeinerte Schreiersche Halbgruppenerweiterungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 11 (1969), 325-328. (Donald W. Miller) 41 #3642

Zum Begriff des Normalteilers in Kategorien. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 239-244. (J. R. Isbell) 31 #5891

Zum Begriff des Normalteilers in Kategorien. *Math. Nachr.* 41 (1969), 271-300. (H. J. Hoehnke) 41 #6942

(See also Kuroš, A. G., 42 #1880)

(with Hoehnke, Hans J.) Über induktive Isomorphie von Gruppen. *Math. Nachr.* 45 (1970), 353-361. (A. Babakhanian) 43 #334

Strecok, Anthony J.

On the calculation of the inverse of the error function. *Math. Comp.* 22 (1968), 144-158. 36 #6119

Street, Anne Penfold

Subgroup-determining functions on groups. *Illinois J. Math.* 12 (1968), 99-120. (H. Nagao) 36 #3885

(with Cossey, John; Macdonald, Sheila Oates) On the laws of certain linear groups. *Bull. Amer. Math. Soc.* 75 (1969), 361-363. (Hanna Neumann) 38 #5897

(with Rhemtulla, A. H.) Maximal sum-free sets in finite abelian groups. *Bull. Austral. Math. Soc.* 2 (1970), 289-297. (K. Honda) 41 #8519

(with Cossey, John; Macdonald, Sheila Oates) On the laws of certain finite groups. *J. Austral. Math. Soc.* 11 (1970), 441-489. (M. J. Dunwoody) 44 #291

Maximal sum-free sets in cyclic groups of prime-power order. *Bull. Austral. Math. Soc.* 4 (1971), 407-418. (E. C. Johnsen) 44 #2825

Street, Robert L.

(with Lenau, Charles W.) A non-linear theory for symmetric, supercavitating flow in a gravity field. *J. Fluid Mech.* 21 (1965) 257-280. (G. Birkhoff) 30 #3645

(with Larock, B. E.) A Riemann-Hilbert problem for nonlinear, fully cavitating flow. *J. Ship. Res.* 9 (1965), *no.* 3, 170-178. (T. Yao-tsu Wu) 33 #940

Street, Ross H.

(with Dubuc, Eduardo) Dinatural transformations. *Reports of the Midwest Category Seminar, IV, pp.* 126-137. *Lecture Notes in Mathematics, Vol.* 137. *Springer, Berlin,* 1970. (G. M. Kelly) 43 #313

Projective diagrams of interlocking sequences. *Illinois J. Math.* 15 (1971), 429-441. (Y. C. Wu) 43 #4881

Streeter, T. D.

(with McCart, B. R.; Haug, E. J.) Optimal design of structures with constraints on natural frequency. *AIAA J.* 8 (1970), 1012-1019. (R. Plunkett) 41 #4782

Štreho, M.

(with Bahvalov, N. S.) An investigation of the possibility of a regularization of the Ritz method on the example of polynomial approximations. (Russian) *Mat. Zametki* 7 (1970), 483-493. (E. L. Albasiny) 43 #5682

Streifer, William

Completely coherent radiation. *Ann. Phys.* 27 (1964), 72-78. (Wallace L. Anderson) 29 #901

On the zeros of Bessel functions as a function of order. *J. Math. and Phys.* 44 (1965), 403-405. (J. A. Donaldson) 32 #2635

(with Kodis, Ralph D.) On the solution of a transcendental equation in scattering theory. II. *Quart. Appl. Math.* 23 (1965), 27-38. (J. W. Miles) 30 #4470

Corrections to related equation algorithms. *J. Math. Anal. Appl.* 21 (1968), 123-125. (N. D. Kazarinoff) 36 #1760

Uniform asymptotic expansions for prolate spheriodal wave functions. *J. Math. and Phys.* 47 (1968), 407-415. (J. Meixner) 39 #5841

Streit, Franz

On multiple integral geometric integrals and their applications to probability theory. *Canad. J. Math.* 22 (1970), 151-163. (M. Stoka) 41 #9168

(with Hadwiger, H.) Über Wahrscheinlichkeiten räumlicher Bündelungserscheinungen. *Montsh. Math.* 74 (1970), 30-40. (L. A. Santaló) 41 #6143

Streit, L.

S-matrix unitarity and current operator in quantum field theory. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 198-204. (A. Lewis Licht) 32 #3558

An introduction to theories of integration over function spaces. *Acta Phys. Austriaca, Suppl. II* (1965), 2-21. (F. H. Brownell) 35 #331

Test function spaces for direct product representations of the canonical commutation relations. *Comm. Math. Phys.* 4 (1967), 22-31. (H. Wakita) 34 #7138

(with Klauder, John R.) Properties of "quadratic" canonical commutation relation representations. *J. Mathematical Phys.* 10 (1969), 1661-1669. (H. Araki) 40 #3836

A generalization of Haag's theorem. (Italian and Russian summaries) *Nuovo Cimento A* (10) 62 (1969), 673-680. (R. Høegh-Krohn) 40 #1108

(with Leutwyler, H.; Klauder, J. R.) Quantum field theory on lightlike slabs. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 536-554. (H. Wakita) 41 #4974

Streitwolf, Hans-Waldemar

* Gruppentheorie in der Festkörperphysik. *Akademische Verlagsgesellschaft Geest & Protig K.-G., Leipzig,* 1967. 222 *pp.* (1 *foldout*) (P. Roman) 39 #2425

Strejc, Vladimír

The theory of the synthesis of a multi-parameter control system containing a digital computer and exposed to the action of random signals. (Russian and Czech summaries) *Stroje na Zpracování Informací* 9 (1963), 169-181. (K. S. Miller) 32 #3912

Strel'čenko, A. Ĭ.

(with Rvačov, V. L.) The completeness of coordinate sequences for the Neumann problem which are constructed by the method of R-functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 222-225, 269. (M. Tomić) 41 #4075

Strel'cov, V. V.

(with Aleksandrov, A. D.) The isoperimetric problem and estimates of the length of a curve on a surface. (Russian) *Trudy Mat. Inst. Steklov.* 76 (1965), 67-80. (L. C. Young) 34 #1971

Strel'cova, V. M.

On the history of n-dimensional polyhedra. (Russian) *Proc. Second Kazakhstan Interuniv. Sci. Conf. Math. Mech.* (1965) *(Russian), pp.* 245-248. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. (P. Ver Eecke) 41 #1483

Strelcyn, Jean-Marie

(See Sinaĭ, Ja. G., 42 4705)

Stricte ergodicité des flots spéciaux. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A903-A905. (G. Della Riccia) 43 #3423

Strelic, Š. I. See Strelicas, Š.

Strelicas, Š.

(with Špilevskiĭ, È. K.) On maximal values of analytic functions of two variables. (Russian. Lithuanian summary) *Vilniaus Valst. Univ. Mokslo Darbai Mat. Fiz.* 9 (1960), 61-70. (W. C. Royster) 32 #2611

The behaviour of an analytic function for large values of its modulus. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 2, 123-175. (W. H. J. Fuchs) 35 #4418

Behaviour of an entire transcendental function of several complex variables for large values of its modulus. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 4 (1964), 357-408. (H. Tornehave) 31 #3628

On the growth of entire transcendental solutions of partial differential equations. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 4 (1964), 541-563. (R. N. Goss) 30 #2213

On defect values of the meromorphic solutions of ordinary differential equations of the first order. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 5 (1965), 127-141. (P. Caraman) 32 #7750

The minimal boundary. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 188, 101-107 (1967). (O. Forster) 39 #5823

Asymptotic properties of a function which is analytic in the half plane. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 8 (1968), 297-316. (T. Kubo) 39 #2993

(with Nagelė, A.) Behavior of the solutions holomorphic in a disc of first order differential equations. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 8 (1968), 109-125. (C. E. Langenhop) 39 #1721

(with Kisielius, J.) Holomorphic solutions of partial differential equations. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 8 (1968), 811-825. (J. Mitchell) 41 #8796

(with Miškelevičius, A.) The convergence of certain Laplace-Stieltjes type integrals. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 9 (1969), 131-151. (L. Berg) 40 #6115

Strelkov, S. P.

* Введение в теорию колебаний. (Russian) [Introduction to the theory of vibrations] Second revised edition. *Izdat. "Nauka", Moscow,* 1964. 437 *pp.* (F. Freudenstein) 32 #3311

Stremskiĭ, V. V.

(with Dalec'kiĭ, Ju. L.) Feynman integrals for the Schröding equation in functional derivatives. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 1 (145), 191-192. (D. Kölzow) 39 #1622

Střeznev, V. A.

On the solution of the conjugacy problem for functions satisfying the Laplace equation. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 71 (1962), 73-77. (Hana Švecová) 34 #6137

Strichartz, Robert S.

Isometric isomorphisms of measure algebras. *Pacific J. Math.* 15 (1965), 315-317. (Author's summary) 31 #1322

Isomorphisms of group algebras. *Proc. Amer. Math. Soc.* 17 (1966), 858-862. (J. G. Wendel) 33 #1751

Multipliers on fractional Sobolev spaces. *J. Math. Mech.* 16 (1967), 1031-1060. (W. Littman) 35 #5927

Fubini-type theorems. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 399-408. (J. F. Smith) 38 #4990

Sobolev inequalities and extension theorems for functions with certain L^p-derivatives. *Studia Math.* 30 (1968), 1-15. (R. D. Moyer) 37 #6747

A multilinear version of the Marcinkiewicz interpolation theorem. *Proc. Amer. Math. Soc.* 21 (1969), 441-444. (R. A. Hunt) 38 #6346

L^p estimates for integral transforms. *Trans. Amer. Math. Soc.* 136 (1969), 33-50. (G. O. Okikiolu) 38 #2638

A priori estimates for the wave equation and some applications *J. Functional Analysis* 5 (1970), 218-235. (T. Ushijima) 41 #2231

Convolutions with kernels having singularities on a sphere. *Trans. Amer. Math. Soc.* 148 (1970), 461-471. (Z. Ditzian) 41 #87

The stationary observer problem for $\square u = Mu$ and related equations. *J. Differential Equations* 9 (1971), 205-223. (D. Pascali) 43 #6571

A note on Sobolev algebras. *Proc. Amer. Math. Soc.* 29 (1971), 205-207. (S. Newberger) 43 #905

Striebel, Charlotte T.

(with Rauch, Herbert E.; Tung, F.) Maximum likelihood estimates of linear dynamic systems. *AIAA J.* 3 (1965), 1445-1450. (Y. C. Ho) 31 #5718

Partial differential equations for the conditional distributi of a Markov process given noisy observations. *J. Math. Anal. Appl.* 11 (1965), 151-159. (Bernard Harris) 32 #8400

(with Tung, F.) A stochastic optimal control problem and its applications. *J. Math. Anal. Appl.* 12 (1965), 350-359. (Y. C. Ho) 32 #3913

Sufficient statistics in the optimum control of stochastic systems. *J. Math. Anal. Appl.* 12 (1965), 576-592. (H. J. Kushner) 33 #7172

(with Kallianpur, G.) Estimation of stochastic systems: Arbitrary system process with additive white noise observation errors. *Ann. Math. Statist.* 39 (1968), 785-801. (D. S. Adorno) 36 #7286

(with Kallianpur, G.) Stochastic differential equations occurring in the estimation of continuous parameter stochastic processes. (Russian summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 597-622. (C. P. Tsokos) 41 #9371

(with Kallianpur, G.) Stochastic differential equations in statistical estimation problems. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio,* 1968*), pp.* 367-388. *Academic Press, New York,* 1969. (H. P. McKean, Jr.) 40 #8145

Strieder, William

A thermodynamic approach to stability problems. (French summar *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 318-331. (S. Fujita 33 #2111

Strigīna, S. O.

(with Zabreĭko, P. P.) Cesari's equation and Galerkin's method for finding periodic solutions of ordinary differential equations. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR. Ser. A* 1970, 583-586, 667. (D. Bobrowski) 43 #7718

Stringall, Robert W.

A problem on endomorphisms of primary abelian groups. *Proc. Amer. Math. Soc.* 17 (1966), 742-743. (R. S. Pierce) 33 #187

Endomorphism rings of Abelian groups generated by automorphism groups. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 401-404. (P. Gräbe) 35 #5509

Endomorphism rings of primary abelian groups. *Pacific J. Math.* 20 (1967), 535-557. (R. S. Pierce) 34 #7644

(with Cutler, Doyle O.) A topology for primary abelian groups *Studies on Abelian Groups (Symposium, Montpellier,* 1967*), pp.* 93-100. *Springer, Berlin,* 1968. (R. J. Ensey) 39 #6977

Decompositions of Abelian p-groups. *Proc. Amer. Math. Soc.* 28 (1971), 409-410. (R. S. Pierce) 43 #345

The categories of p-rings are equivalent. *Proc. Amer. Math. Soc.* 29 (1971), 229-235. (I. Sussman) 43 #1901

Primary modules determined by indecomposable idempotent endomorphisms. *Proc. Amer. Math. Soc.* 31 (1972), 54-56. (R. S. Pierce) 44 #2826

Strižak, T. G.

Dynamic stability of a pendulum filled with a viscous fluid. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 129-133. (Şt. I. Gheorghiţă) 39 #3748

Motion of a pendulum whose point of support is subjected to the action of periodic shocks. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 413-417. (E. Leimanis) 40 #1063

Strnad, Pavel

On-line Turing machine recognition. *Information and Control* 12 (1968), 442-452; *erratum, ibid.* 13 (1968), 508. (J. A. Schatz) 40 #4117

Strobel, D.

Estimation of the sum of statistical variables by using classes with random limits. *Metrika* 10 (1966), 39-45. 33 #5075

Strocchi, Franco

* (with Corinaldesi, E.) Relativistic wave mechanics. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1963. x + 310 *pp.* (D. Lurié) 31 #3000

Group-theoretical approach to the relativistic limit of particle equations. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1437-1445. (Roland Good, Jr.) 32 #3628

Complex coordinates and quantum mechanics. *Rev. Modern Phys.* 38 (1966), 36-40. (R. F. Streater) 33 #2134

Microscopic and macroscopic quantities in statistical mechanics. (Italian and Russian summaries) *Nuovo Cimento B* (10) 65 (1970), 239-265. (D. ter Haar) 40 #8405

Stročik, T. V.

(with Gol′dberg, A. A.) Conformal mapping of symmetric half-strips and angular regions. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 6 (1966), 227-239. (Z. Lewandowski) 35 #5593

The conformal mapping of semibands of constant width. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 60-72. (D. A. Brannan) 39 #7076

The conformal mapping of a certain class of half strips. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 859-878, 957-958. (W. Kleiner) 42 #7874

Strockite, T. D. See Strockytė, T.

Strockytė, T.

* (with Glembockis, J.; Karazija, R.; Uldukytė, V.; Vizbaraitė, J.) Tables of 9j-coefficients for integral values of the parameters with one parameter equal to unity. English and Russian texts. Editor A. Jucys. Academy of Sciences of Lithuanian SSR. Institute of Physics and Mathematics. Academy of Sciences USSR. Computing Center. *Computing Center AS USSR, Moscow,* 1968. xxviii + 552 *pp.* (C. Froese Fischer) 39 #7912

Strodt, Walter

Principal solutions of nonlinear differential equations. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 347-366. *Benjamin, New York,* 1967. (Editors) 36 #5438

* (with Wright, Robert K.) Asymptotic behavior of solutions and adjunction fields for nonlinear first order differential equations. Memoirs of the Americal Mathematical Society, No. 109. *American Mathematical Society, Providence, R. I.,* 1971. 284 *pp.* (K. Okugawa) 44 #1884

Stroescu, Elena

Pfaff's equation in the sense of distribution theory. I. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1189-1192. (Author's summary) 42 #4872

$\mathcal{U}$-scalar dilations and $\mathcal{U}$-scalar extensions of operators on Banach spaces. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 567-572. (J. B. Deeds) 40 #4793

$\mathfrak{U}$-spectral representations. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1207-1211. (J. B. Miller) 41 #4264

$\mathcal{A}$-spectral transformations on locally convex spaces. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 923-934. (Ian Richards) 43 #7952

Stroffolini, R.

(with Fubini, S.) A new approach to scattering by singular potentials. *Nuovo Cimento* (10) 37 (1965), 1812-1816. (V. de Alfaro) 33 #2151

A constructive determination of the S-matrix for singular potentials. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 793-828. (Z. Janković) 43 #5826

Ströher, Wolfgang

Über Linienelemente, die an eine Kurve gebunden sind. *Monatsh. Math.* 68 (1964), 439-451. (K. Strubecker) 30 #2417

Strohmajer, J.

Über die Verteilung von Punkten auf der Kugel. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 6 (1963), 49-53. (R. P. Bambah) 29 #3958

Strohmeier, Elizabeth M.

Homogeneous ideal decompositions in general graded rings with ACC. *Math. Ann.* 181 (1969), 103-108. (M. F. Smiley) 39 #5618

Stroĭk, D. Dž. See Struik, Dirk J.

Strojk, Dirk J. See Struik, Dirk J.

Stroke, G. W.

(with McClellan, R. P.) Solution of the non-homogeneous Helmholtz equation for optical gratings with perfectly conducting boundaries. *J. Math. and Phys.* 45 (1966), 383-390. (R. F. Millar) 34 #7124

Strøm, Arne

Note on cofibrations. *Math. Scand.* 19 (1966), 11-14. (J. Dugundji) 35 #2284

Note on cofibrations. II. *Math. Scand.* 22 (1968), 130-142 (1969). (J. Dugundji) 39 #4846

Ström, Staffan

On the representation of finite Lorentz transformations. *Lectures in Theoret. Phys., Vol VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo., 1964), pp.* 70-78. *Univ. Colorado Press, Boulder, Colo.,* 1965. (R. F. Stora) 33 #2135

On the matrix elements of a unitary representation of the homogeneous Lorentz group. *Ark. Fys.* 29 (1965), 467-483. (L. O'Raifeartiagh) 33 #5301

On the contraction of representations of the Lorentz group to representations of the Euclidean group. *Ark. Fys.* 30 (1965), 267-281. (Harry E. Moses) 33 #3695

Construction of representations of the inhomogeneous Lorentz group by means of contraction of representations of the (1 + 4) de Sitter group. *Ark. Fys.* 30 (1965), 455-472. (Author's summary) 32 #7060

(with Kihlberg, A.) On the unitary irreducible representations of the (1 + 4) de Sitter group. *Ark. Fys.* 31 (1966), 491-508. (B. Kursunoglu) 33 #7032

A note on the matrix elements of a unitary representation of the homogeneous Lorentz group. *Ark. Fys.* 33 (1967), 465-469. (J.-P. Antoine) 36 #310

Some remarks on the decomposition of a unitary representation of the Lorentz group with respect to representations of non-compact subgroups. *Ark. Fys.* 34 (1967), 215-225. (Author's summary) 36 #2740

Matrix elements of the supplementary series of unitary representations of SL(2,C). *Ark. Fys.* 38 (1968), 373-381. (J.-P. Antoine) 39 #359

On the decomposition of a unitary representation of the (1 + 4) de Sitter group with respect to representations of the Lorentz group. *Ark. Fys.* 40 (1969), 1-33. (W. Israel) 42 #8805

Induced representations of the (1 + 4) de Sitter group in an angular momentum basis and the decomposition of these representations with respect to representations of the Lorentz group. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 13 (1970), 77-98. (M. Carmeli) 42 #8806

Stromberg, Karl R.

* (with Hewitt, Edwin) Real and abstract analysis. A modern treatment of the theory of functions of a real variable. *Springer-Verlag. New York,* 1965. viii + 476 *pp.* (R. E. Edwards) 32 #5826

(with Ross, Kenneth A.) Baire sets and Baire measures. *Ark. Mat.* 6, 151-160 (1965). (J. C. Oxtoby) 33 #4224

(with Ross, Kenneth A.) Jessen's theorem on Riemann sums for locally compact groups. *Pacific J. Math.* 20 (1967), 135-147. (J. M. G. Fell) 34 #7702

Large families of singular measures having absolutely continuous convolution squares. *Proc. Cambridge Philos. Soc.* 64 (1968), 1015-1022. (C. F. Dunkl) 37 #6693

* (with Hewitt, Edwin) Real and abstract analysis. A modern treatment of the theory of functions of a real variable. Second printing corrected. *Springer-Verlag, New York-Berlin,* 1969. viii + 476 *pp.* (Editors) 43 #428

Strömi, Torsten

An inductive proof of the fundamental theorem of games. *Nordisk Tidskr. Informations-Behandling* 6 (1966), 161-163. 34 #4013

Strict error bounds in Romberg quadrature. *Nordisk Tidskr. Informations-Behandling (BIT)* 7 (1967), 314-321. (Author's summary) 36 #7329

An inclusion formula for derivatives. *Nordisk Tidskr. Informationsbehandling* 11 (1971), 196-198. (Author's summary) 44 #4906

Strict estimation of the maximum of a function of one variable. *Nordisk Tidskr. Informationsbehandling (BIT)* 11 (1971), 199-211. (R. P. Brent) 44 #6136

Strommer, J.

Konstruktionen in begrenzter hyperbolischer Ebene. *Publ. Math. Debrecen* 11 (1964), 295-296. (H. Schwerdtfeger) 30 #1437

Strong, H. R., Jr.

Algebraically generalized recursive function theory. *IBM J. Res. Develop.* 12 (1968), 465-475. (Author's summary) 41 #6689

Depth-bounded computation. *J. Comput. System Sci.* 4 (1970), 1-14. (B. A. Galler) 40 #5363

Translating recursion equations into flow charts. *J. Comput. System Sci.* 5 (1971), 254-285. (Robert M. Baer) 43 #4461

Strongin, R. G.

Multiextremal minimization for measurements with interference. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 6, 118-126 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 6, 106-115 (1970). (V. F. Dem'janov) 43 #1395

Stronina, M. I.

An elementary proof of Urazbaev's asymptotic formula. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 156-158. (A. E. Ingham) 33 #5576

Integral points on circular cones. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 8 (87), 112-116. (A. I. Vinogradov) 40 #1354

Stroock, Daniel W.

Penetration times and passage times. *Markov Processes and Potential Theory (Proc. Sympos. Math. Res. Center, Madison, Wis., 1967), pp.* 193-204. *Wiley, New York,* 1967. (J. L. Doob) 37 #4881

A mini-max theorem in classical potential theory. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 603-606. (L. L. Helms) 37 #4277

The Kac approach to potential theory. II. *Comm. Pure Appl. Math.* 20 (1967), 775-795. (J. L. Doob) 36 #969

The Kac approach to potential theory. I. *J. Math. Mech.* 16 (1967), 829-852. (J. L. Doob) 34 #8499

(with Varadhan, S. R. S.) Diffusion processes with continuous coefficients. I. *Comm. Pure Appl. Math.* 22 (1969), 345-400. (H. P. McKean, Jr.) 40 #6641

(with Varadhan, S. R. S.) Diffusion processes with continuous coefficients. II. *Comm. Pure Appl. Math.* 22 (1969), 479-530. (H. P. McKean, Jr.) 40 #8130

On certain systems of parabolic equations. *Comm. Pure Appl. Math.* 23 (1970), 447-457. (E. H. Lehman, Jr.) 42 #6956

(with Varadhan, S. R. S.) Diffusion processes with boundary conditions. *Comm. Pure Appl. Math.* 24 (1971), 147-225. (J. A. Beekman) 43 #2774

On the growth of stochastic integrals. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 18 (1971), 340-344. (H. P. McKean, Jr.) 44 #4825

Strooker, Jan Rustom

* Faithfully projective modules and clean algebras. Dissertation, University of Utrecht, Utrecht, 1965. *J. J. Groen & Zoon, N. V., Leiden,* 1965. 35 *pp.* (C. W. Curtis) 36 #206

A remark on Artin-van der Waerden equivalence of ideals. *Math. Z.* 93 (1966), 241-242. (H. Bass) 33 #4084

Lifting projectives. *Nagoya Math. J.* 27 (1966), 747-751. (E. H. Feller) 33 #5679

(with Oort, Frans) The category of finite bialgebras over a field. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 163-169. (S. S. Shatz) 35 #1599

Stroud, Arthur H.

Approximate integration formulas of degree 3 for simplexes. *Math. Comp.* 18 (1964), 590-597. (P. C. Hammer) 29 #6628

(with Moursund, D. G.) The best Čebyšev approximation to a function and its derivative on $n + 2$ points. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 15-23. (Bruno Brosowski) 36 #586

(with Stancu, D. D.) Quadrature formulas with multiple Gaussian nodes. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 129-143. (P. C. Hammer) 31 #4177

Error estimates for Romberg quadrature. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 480-488. (A. D. McLaren) 34 #957

* (with Secrest, Don) Gaussian quadrature formulas. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1966. ix + 374 *pp.* (P. C. Hammer) 34 #2185

Some fifth degree integration formulas for symmetric regions. *Math. Comp.* 20 (1966), 90-97. (P. C. Hammer) 32 #8503

Some approximate integration formulas of degree 3 for an n-dimensional simplex. *Numer. Math.* 9 (1966), 38-45. (S. Haber) 35 #7580

Some fifth degree integration formulas for symmetric regions. II. *Numer. Math.* 9 (1966/67), 460-468. (R. A. Valentin) 36 #1106

Estimating quadrature errors for functions with low continuity. *SIAM J. Numer. Anal.* 3 (1966), 420-424. (S. Haber) 35 #6368

Some seventh degree integration formulas for symmetric regions. *SIAM J. Numer. Anal.* 4 (1967), 37-44. (R. E. Barnhill) 35 #5133

Integration formulas and orthogonal polynomials. *SIAM J. Numer. Anal.* 4 (1967), 381-389. (F. Stenger) 37 #3764

Extensions of symmetric integration formulas. *Math. Comp.* 22 (1968), 271-274. (D. F. Mayers) 38 #866

Some seventh degree integration formulas for the surface of an n-sphere. *Numer. Math.* 11 (1968), 273-276. (Author's summary) 36 #7330

(with Goit, Edward H., Jr.) Some extensions of integration formulas. *SIAM J. Numer. Anal.* 5 (1968), 243-251. (R. E. Barnhill) 37 #3765

(with Sarma, V. L. N.) Eberlein measure and mechanical quadrature formulae. II. Numerical results. *Math. Comp.* 23 (1969), 781-784. (Authors' summary) 41 #2929

A fifth degree integration formula for the n-simplex. *SIAM J. Numer. Anal.* 6 (1969), 90-98. (J. B. Butler, Jr.) 40 #2231

Integration formulas and orthogonal polynomials for two variables. *SIAM J. Numer. Anal.* 6 (1969), 222-229. (C. S. Duris) 41 #6400

Integration formulas and orthogonal polynomials. II. *SIAM J. Numer. Anal.* 7 (1970), 271-276. (F. Stenger) 42 #4015

Stroud, P. W.

On a property of verbal and marginal subgroups. *Proc. Cambridge Philos. Soc.* 61 (1965), 41-48. (B. Chang) 30 #3910

Stroud, Thomas

On obtaining large-sample tests from asymptotically normal estimators. *Ann. Math. Statist.* 42 (1971), 1412-1424. (A. F. Ifram) 44 #7671

(with Feder, Paul I.) Sequential decisions in the control of a space-ship (Terminal cost proportional to magnitude of miss distance). *J. Appl. Probability* 8 (1971), 285-297. (Lionel Weiss) 44 #6109

Strubecker, Karl

* Differentialgeometrie. Band I: Kurventheorie der Ebene und des Raumes. Zweite, erweiterte Auflage. Sammlung Göschen, Bänder 1113/1113a. *Walter de Gruyter & Co., Berlin,* 1964. 253 *pp.* (H. W. Guggenheimer) 29 #2715

Über Monge-Ampèresche Differentialgleichungen mit konstanten Koeffizienten. *J. Reine Angew. Math.* 217 (1965), 143-179. (C. H. Wilcox) 34 #3089

* Differentialgeometrie. II: Theorie der Flächenmetrik. Zweite, ergänzte Auflage. Sammlung Göschen, Band 1179/1179a. *Walter de Gruyter & Co., Berlin,* 1969. 261 *pp.* (Editors) 39 #871

* Differentialgeometrie. III: Theorie der Flächenkrümmung. Zweite, verbesserte Auflage. Sammlung Göschen, Band 1180/1180a. *Walter de Gruyter & Co., Berlin,* 1969. 264 *pp.* (Editors) 39 #872

Geometrie isotroper Räume. *Symposia Mathematica, Vol. V (INDAM, Rome, 1969/70), pp.* 263-284. *Academic Press, London,* 1971. (M. Pinl) 43 #3950

Struble, Raimond A.

A discussion of the Duffing problem. *J. Soc. Indust. Appl. Math.* 11 (1963), 659-666. (J. Moser) 31 #2464

(with Warmbrod, G. K.) Free resonant oscillations of a conservative two-degree-of-freedom system. *J. Franklin Inst.* 278 (1964), 195-209. (N. D. SenGupta) 29 #4255

A note on periodic solutions of the Duffing equation. *J. Math. Anal. Appl.* 9 (1964), 498-501. (J. Moser) 29 #6116

On the oscillations of a pendulum under parametric excitation. *Quart. Appl. Math.* 22 (1964), 157-159. (N. D. SenGupta) 29 #3026

A note on damped oscillations in nonlinear systems. *SIAM Rev.* 6 (1964), 257-259. (G. S. Jones) 30 #2199

(with Proctor, Thomas G.) Motion of two weakly coupled nonlinear oscillators. *Arch. Rational Mech. Anal.* 18 (1965), 293-303. (J. Moser) 30 #2200

(with Heinbockel, J. H.) The existence of periodic solutions of nonlinear oscillators. *J. Soc. Indust. Appl. Math.* 13 (1965), 6-36. (E. Leimanis) 31 #6023

(with Heinbockel, J. H.) Periodic solutions for differential systems with symmetries. *J. Soc. Indust. Appl. Math.* 13 (1965), 425-440. (W. S. Loud) 31 #6024

(with Marlin, J. A.) Periodic motion of a simple pendulum with periodic disturbance. *Quart. J. Mech. Appl. Math.* 18 (1965), 405-417. (L. A. MacColl) 32 #6736

(with Cooke, C. H.) Perturbations of normal mode vibrations. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 1 (1966), 147-155. (H. Hochstadt) 37 #6558

(with Cooke, C. H.) On the existence of periodic solutions and normal mode vibrations of nonlinear systems. *Quart. Appl. Math.* 24 (1966), 177-193. (R. M. Rosenberg) 34 #1614

On operators and distributions. *Canad. Math. Bull.* 11 (1968), 61-64. (J. L. B. Cooper) 38 #1522

A genuine topology for the field of Mikusiński operators. *Canad. Math. Bull.* 11 (1968), 297-299. (R. M. Dudley) 38 #1523

On the differential equation $f'(x) = af(g(x))$. *Math. Mag.* 41 (1968), 260-262. (W. R. Utz) 38 #4787

(with Marlin, J. A.) Asymptotic equivalence of nonlinear systems. *J. Differential Equations* 6 (1969), 578-596. (N. Onuchic) 40 #5985

Topological equivalence of nonlinear systems. *J. Math. Anal. Appl.* 31 (1970), 196-205. (F. W. Wilson, Jr.) 41 #3859

Strudthoff, Mario

Intervalli d'attesa fra successi contigui in condizioni di scambiabilità. (English summary) *Rend. Ist. Mat. Univ. Trieste* 2 (1970), 164-183. (M. Iosifescu) 43 #5599

Struik, Dirk J.

(See Simon Stevin, The principal works of, 34 #1141)

* Abriss der Geschichte der Mathematik. Zweite, bearbeitete Auflage. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1963. xv + 237 *pp.* (Editors) 29 #1119

* Dějiny matematiky. (Czech) [History of mathematics] Translated from the English by L. Nový and J. Folta. *Orbis, Prague,* 1963. 251 *pp.* (Editors) 32 #5477a

* Краткий очерк истории математики. (Russian) [A short outline of the history of mathematics] Translated from the English by I. B. Pogrebysskiĭ. *Izdat. "Nauka", Moscow,* 1964. 233 *pp.* (Editors) 32 #5477b

On ancient Chinese mathematics. *Euclides (Groningen)* 40 (1964/65), 65-79. (K. Vogel) 30 #1021

* Geschiednis der wiskunde. (Dutch) [History of science] *Aula-Boeken, Het Spectrum, Utrecht,* 1965. 256 *pp.* (Editors) 32 #5477c

* A concise history of mathematics. Third revised edition. *Dover Publications, Inc., New York,* 1967. x + 195 *pp. (18 plates)* (Editors) 34 #7317

(See also Source book in mathematics, 1200-1800, 39 #11)

* Kratak pregled isotorije matematike. (Serbo-Croatian) [A short survey of the history of mathematics] Translated from the English and edited by Milenko M. Nikolić. *Zavod za Izdavanje Ucbenika Soc. Rep. Srbije, Belgrade,* 1969. 269 *pp.* (Editors) 40 #4051

Struik, Ruth Rebekka

(with Glauberman, George; Krause, Eugene F.) Engel congruences in groups of prime-power exponent. *Canad. J. Math.* 18 (1966), 579-588. (K. Honda) 33 #4138

(with Fischer, Irwin) Nil algebras and periodic groups. *Amer. Math. Monthly* 75 (1968), 611-623. (J. E. Whitesitt) 38 #179

Struminskiĭ, B. V.

A strong interaction symmetry model based on Sp_6. *Jadernaja Fiz.* 1 (1965), 701-709 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 501-506. (Author's summary) 33 #2285

(with Fakirov, D. G.; Todorov, I. T.) Group SU(12) as a generalization of the symplectic and spin symmetries. *Phys. Lett.* 17 (1965), 342-344. (R. Mirman) 32 #3636

Struminskiĭ, V. V.

On Hilbert's method of solving the kinetic Boltzmann equation. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 70-73. (R. Balescu) 29 #4533

A method of solving the kinetic Boltzmann equations. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 298-301. (C. K. Chu) 34 #2251

Laws of the development and stabilization of aerodynamic perturbations. *Dokl. Akad. Nauk SSSR* 164 (1965), 66-69 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 801-804. (E. J. Watson) 33 #2058

The structure of solutions of sequences of equations in the kinetic theory of gases. *Dokl. Akad. Nauk SSSR* 165 (1965), 293-296 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 999-1002. (L. E. Ebner (PA 69 #14716)) 34 #5465

Struminsky, B. V. See Struminskiĭ, B. V.

Struminsky, V. V. See Struminskiĭ, V. V.

Strunkov, S. P.

Topological Hamiltonian groups. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 157-161. (L. Zippin) 33 #2758

Subgroups of periodic groups. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 279-281. (I. M. S. Dey) 34 #2705

On the problem of O. Ju. Šmidt. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 476-479. (I. M. S. Dey) 33 #1361

The normalizers and abelian subgroups of certain classes of groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 657-670. (L. G. Kovács) 36 #255

Strutt, John William. See Rayleigh, John William Strutt, Third Baron.

Strutt, Robert John. See Rayleigh, Robert John Strutt, Fourth Baron.

Strygin, V. V.

A certain characteristic of a Riesz basis. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1961, *no.* 1, 41-42. (Ju. A. Kaz'min (RŽMat 1961 #12 B386)) 36 #4325

(with Krasnosel'skiĭ, M. A.) Some criteria for the existence of periodic solutions of ordinary differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1022-1024. (A. Stokes) 29 #312

The dependence of an integral operator on a parameter. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 28-31. (J. K. Hale) 30 #2207

One way of obtaining a priori estimates of periodic solutions of differential equations in a Banach space. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 293-295. (J. Albrycht) 32 #4353

(with Krasnosel'skiĭ, M. A.) The principle of the invariance of the rotation of a completely continuous vector field. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 3, 33-39. (Ky Fan) 36 #5780

(with Krasnosel'skiĭ, M. A.; Lifšic, E. A.) A new method in the problem of periodic solutions of equations with deviating argument. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 5 (1967), 116-120. (M. Bertolino) 37 #1741

The averaging principle for multidimensional differential equations of the first order. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 673-677 (1968). (J. A. Morrison) 38 #3521

Complete solvability of multi-dimensional differential equations with potential right-hand side. (Russian) *Differencial'nye Uravnenija* 5 (1969), 331-342. (C. Corduneanu) 39 #3074

Peculiarities of the averaging principle for evolution equations. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 535-537. (A. Elbert) 40 #7601

A certain property of the relative rotation of a vector field. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 5, 86-89. (H. Schwetlick) 43 #6791

The dependence of a certain integral operator on the parameter. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 55-66. (J. Kolomý) 39 #7248

A certain theorem on the existence of periodic solutions of systems of differential equations with ratarded argument. (Russian) *Mat. Zametki* 8 (1970), 229-234. (O. Gürel) 43 #2327

The averaging principle for equations with heredity. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 503-513. (J. K. Hale) 44 #5591

On the question of the bifurcation of the quasistationary periodic solutions of a system of differential-difference equations. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 305-308. (R. F. Datko) 43 #2328

"Change of stabilities" and bifurcation of small self-oscillations of systems of differential equations with a small parameter multiplying the highest derivative. (Russian) *Dokl. Akad. Nauk SSSR* 199 (1971), 33-35. (N. Chafee) 44 #4309

Strygina, S. O.

(with Zabreĭko, P. P.) The periodic solutions of evolution equations. (Russian) *Mat. Zametki* 9 (1971), 651-662. (I. Muntean) 44 #4295

Strzelecki, Emanuel

Metric properties of normed algebras. *Studia Math.* 23 (1963), 41-51. (R. Arens) 34 #2620

Some theorems on interpolation by periodic functions. *Colloq. Math.* 12 (1964), 239-248. (E. Følner) 30 #2268

Power-associative regular real normed algebras. *J. Austral. Math. Soc.* 6 (1966), 193-209. (P. Civin) 33 #6435

(with Speed, T. P.) A note on commutative *l*-groups. *J. Austral. Math. Soc.* 12 (1971), 69-74. (P. F. Conrad) 43 #3191

Stuart, Alan

Some remarks on sampling with unequal probabilities. (With discussion; French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 773-780. (J. Durbin) 30 #3560

Multistage sampling with preliminary random stratification of first-stage units. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 193-201. (C. Hayashi) 30 #5452

* (with Kendall, Maurice G.) Теория распределений. (Russian) [Distribution theory] Translated from the English by V. V. Sazonov and A. N. Širjaev. *Izdat. "Nauka", Moscow,* 1966. 587 *pp.* (Editors) 35 #3767

* (with Kendall, Maurice G.) The advanced theory of statistics. Vol. 3: Design and analysis, and time-series. *Hafner Publishing Co., New York,* 1966. ix + 552 *pp.* (E. J. Hannan) 37 #999

* (with Kendall, Maurice G.) The advanced theory of statistics. Vol. 2: Inference and relationship. Second edition. *Hafner Publishing Co., New York,* 1967. ix + 690 *pp.* (E. J. Hannan) 39 #4969

The average critical value method and the asymptotic relative efficiency of tests. *Biometrika* 54 (1967), 308-310. (Lionel Weiss) 35 #7473

* (with Kendall, Maurice G.) The advanced theory of statistics. Vol. 1: Distribution theory. Third edition. *Hafner Publishing Co., New York,* 1969. xii + 439 *pp.* (J. Wolfowitz) 39 #7703

Stuart, Charles A.

Positive solutions of a nonlinear integral equation. *Math. Ann.* 192 (1971), 119-124. (H. Amann) 44 #754

Stuart, I. M.

String vibrating at finite amplitude. *J. Austral. Math. Soc.* 6 (1966), 369-382. (I. Tadjbakhsh) 34 #5358

(with McMahon, G. B.) A queueing system with bulk service. *Operations Res.* 14 (1966), 728-731. (Authors' summary) 33 #3769

Stuart, J. T.

On the cellular patterns in thermal convection. *J. Fluid Mech.* 18 (1964), 481-498. (F. E. Bisshopp) 29 #6740

Double boundary layers in oscillatory viscous flow. *J. Fluid Mech.* 24 (1966), 673-687. (T. Tatsumi) 33 #6935

A simple corner flow with suction. *Quart. J. Mech. Appl. Math.* 19 (1966), 217-220. (W. F. Ames) 33 #5204

Stubberud, Allen R.

(with Kroy, W. H.) Identification via non-linear filtering. *Internat. J. Control* (1) 6 (1967), 499-522. (D. S. Adorno) 38 #787 (with Kroy, W. H.) Identification via nonlinear filtering. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 394-412. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the authors' summary) 40 #1186 }

Stucky, Wolffried

(with Walter, Hermann) Minimal linear realizations of autonomous automata. *Information and Control* 16 (1970), 66-84. (A. Ádám) 43 #8467

Studden, William J.

} * (with Karlin, Samuel) Tchebycheff systems: With applications in analysis and statistics. Pure and Applied Mathematics, Vol. XV. *Interscience Publishers [John Wiley & Sons], New York-London-Sydney,* 1966. xviii + 586 *pp.* (G. G. Lorentz) 34 #4757 }

Studencov, G. I.

On the theory of the projective differential geometry of a pair of surfaces. (Russian) *Ukrain. Geometr. Sb. Vyp.* 1 (1965), 102-106. (M. Decuyper) 35 #3568

On the projective-differential geometry of a pair of surfaces. (Russian) *Vestnik Har'kov. Gos. Univ.* 1965, *no.* 3, 119-132. (K. Svoboda) 34 #710 (E) }

Studnev, Ju. P.

(with Ljalina, D. I.) Limit distributions for functions of class V in a multiplicative scheme. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 424-431. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (W. Hoeffding) 33 #759

A remark in connection with the Katz-Petrov theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 751-753. (M. R. Leadbetter) 32 #8392

On the rate of convergence toward stable distribution laws. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 34-37. (Č. Masaitis) 33 #6676

(with Ignat, Ju. I.) A refinement of the central limit theorem and of its global version. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 562-567. (Harry I. Cohn) 35 #6189

Some generalizations of limit theorems in probability theory. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 729-734. (J. L. Denny) 37 #2303

Certain properties of the accompanying laws for symmetric distribution functions. (Russian) *Teor. Verojatnost. i Primenen.* 13 (1968), 742-745. (R. Cuppens) 39 #3553

A certain form of the estimate of the speed of convergence to the normal law. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 281-285. (R. Cuppens) 36 #7186

Study, Eduard

(See Grassmann, Hermann, 39 #6727)

Stueben, E. F.

Ideals in two place tri-operational algebras. *Monatsh. Math.* 69 (1965), 177-182. (A. C. Choudhury) 31 #3369

Stueckelberg de Breidenbach, E. C. G.

A generalization of the principle of detailed balancing in μ-space. *Helv. Phys. Acta* 37 (1964), 521-531. (D. ter Haar) 31 #3145

Stuelpnagel, John

On the parametrization of the three-dimensional rotation group. *SIAM Rev.* 6 (1964), 422-430. (G. de B. Robinson) 30 #3151

Euclidean fiberings of solvmanifolds. *Pacific J. Math.* 15 (1965), 705-717. (S. Tôgô) 32 #1287

Stuiver, Willem

A new variational approach to the solution of initial value problems. *Proc. Fourth U. S. Nat. Congr. Appl. Mech. (Univ. California, Berkeley, Calif., 1962), Vol. 1, pp.* 401-409. *Amer. Soc. Mech. Engrs., New York,* 1962. (F. D. Faulkner) 30 #1275

Stukalo, O. S.

A method of control of calculations in the integration of ordinary differential equations by the Adams method. (Ukrainian. Russian summary) *Vīsnik Kiïv. Unīv.* 1960, *no.* 3, *Ser. Mat. Meh. vyp.* 2, 134-143 (1961). (Č. Masaitis) 34 #7018

The general Adams method with a variable step of integration. (Russian. German summary) *Vyčisl. Mat. (Kiev) Vyp.* 2 (1966), 89-95. 35 #2491

Štulc, Jiří

On the length of curves and continua. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 90 (1965), 458-470. (J. Král) 32 #7689

(with Veselý, Jiří) Connection of a cyclic and radial variation of a path with its length and bend. (Czech. Loose English summary) *Časopis Pěst. Mat.* 93 (1968), 80-116. (J. Král) 39 #384

Stummel, Friedrich

* Einführung in die Distributionstheorie. Vorlesung im Wintersemester 1962/63 an der Technischen Universität Berlin. HMI-B 30. *Hahn-Meitner-Institut für Kernforschung Berlin, Berlin,* 1963. 83 *pp. (not consecutively numbered)* (Editors) 29 #465

* Näherungsmethoden zur Lösung elliptischer partieller Differentialgleichungen. Vortrag auf der Jahrestagung der Deutschen Mathematiker-Vereinigung in Frankfurt am Main, 1963. HMI-B 31. *Hahn-Meitner-Institut für Kernforschung Berlin, Berlin,* 1963. iii + 22 *pp.* (Author's summary) 29 #743

* Einführung in die Funktionalanalysis. Vorlesung im Wintersemester 1963/64 an der Technischen Universität Berlin. Hahn-Meitner-Institut für Kernforschung Berlin, Sektor Mathematik, HMI-B 33. *Hahn-Meitner-Institut für Kernforschung Berlin, Berlin-Wannsee,* 1964. vi + 78 *pp. (not consecutively numbered)* (R. G. Douglas) 30 #5147

* Über ein allgemeines iteratives Verfahren zur Lösung des Dirichletproblems für lineare elliptische Differentialgleichungen beliebiger gerader Ordnung. Hahn-Meitner-Institut für Kernforschung Berlin, Sektor Mathematik, HMI-B 32. *Hahn-Meitner-Institut für Kernforschung Berlin, Berlin-Wannsee,* 1964. 11 *pp.* (C. B. Morrey, Jr.) 32 #4385

Zur Konvergenz des Balayage-Verfahrens in Hilbertschen Räumen. *Math. Z.* 86 (1964), 136-144. (W. V. Petryshyn) 31 #3840

Über die Differenzenapproximation des Dirichletproblems für eine lineare elliptische Differentialgleichung zweiter Ordnung. *Math. Ann.* 163 (1966), 321-339. (S. V. Parter) 34 #7051

Elliptische Differenzenoperatoren unter Dirichletrandbedingungen. *Math. Z.* 97 (1967), 169-211. (S. V. Parter) 36 #7346

Stump, Robert K.

Linear combinations of univalent functions with complex coefficients. *Canad. J. Math.* 23 (1971), 712-717. (D. E. Tepper) 44 #2919

Stumpf, Harald

Quantenmechanische Modellbetrachtungen zur Mehrkanalstreuung in nichtlinearen Feldtheorien. *Ann. Physik* (7) 11 (1963), 138-150. (H. Ekstein) 31 #4414

Zur quantenfeldtheoretischen Darstellung der Streumatrix im Halbleitermodell. *Ann. Physik* (7) 13 (1964), 294-312. (I. Białynicki-Birula) 32 #833

(with Wagner, F.; Wahl, F.) Zur Konvergenz der einzeitigen Tamm-Dancoff-Methode beim anharmonischen Oszillator. (English summary) *Z. Naturforsch.* 19a (1964), 1254-1267. (R. Haag) 30 #5722

(with Rampacher, H.; Wagner, F.) Grundlagen der Dynamik in der nichtlinearen Spinortheorie der Elementarteilchen. *Fortschr. Physik* 13 (1965), 385-480. (W. Güttinger) 32 #3550

Functional quantum theory of scattering processes. I. *Z. Naturforsch.* 24a (1969), 1022-1029. (R. C. Gilbert) 42 #8827

Functional quantum theory of free relativistic Fermi fields. *Z. Naturforsch.* 25a (1970), 575-586. (R. C. Gilbert) 42 #4135

Functional quantum theory of scattering processes. II. *Z. Naturforsch.* 25a (1970), 795-803. (R. C. Gilbert) 42 #8828

Stumpf, Luis W.

(with Johnson, Duane P.) Perturbation solutions for low-thrust rocket trajectories. *AIAA J.* 3 (1965), 1934-1936. (Authors' summary) 32 #1942

Stünzi, M.

(with Gut, M.) Kongruenzen zwischen Koeffizienten trigonometrischer Reihen und Klassenzahlen quadratisch imaginärer Körper. *Comment. Math. Helv.* 41 (1966/67), 287-302. (J. V. Armitage) 36 #2591; erratum, 37, p. 1469

Stupina, I. D.

On a certain property of the *R*-operation. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May, 1960) (Russian), pp.* 101-105. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (E. Seiden) 36 #3659

On covering of sets in a Baire space. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 172-187. (Eugene F. Steiner) 34 #3518

On a property of the *R*-operation. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1125-1151. (Đ. Kurepa) 35 #1487

Certain properties of *R*- and R^c-operations. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 1010-1013. (Đ. Kurepa) 41 #1542

The *GS*-operation with *B*- and *A*-bases. (Russian) *Volgograd. Gos. Ped. Inst. Učen. Zap. Vyp.* 23 (1969), 105-127. (Đ. Kurepa) 44 #3879

Certain properties of *R*- and R^c-operations and projective operations, over uncountable systems of sets, in connection with ramification hypotheses. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 1248-1250. (Đ. Kurepa) 43 #7340

Certain properties of projective operations over uncountable systems of sets in connection with branching hypotheses. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 1026-1029. (M. S. Popadić) 43 #4683

Stupjalis, L.

(with Ladyženskaja, O. A.) Equations of mixed type. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 19, 38-46. (D. A. Lee) 35 #3275

A spectral problem for equations of mixed type. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 13, 86-102. (D. A. Lee) 36 #4175

(with Ladyženskaja, O. A.) Letter to the editors. (Russian) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 1, 155-156. (D. A. Lee) 37 #615

Boundary value problems for equations of mixed type in the case when λ = 0 is a point of the spectrum for the elliptic part of the equations. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 7, 46-73. (Ju. M. Berezanskiĭ) 44 #661

Stupnicka, Wanda Szemplińska. See Szemplińska-Stupnicka, Wanda.

Stupočenko, E. V.

(with Stahanov, I. P.) On certain questions of the hydrodynamics of relaxing media. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1963, *no.* 2, 3-20. (J. P. Guiraud) 32 #1991

Stupotschenko, J. W. See Stupočenko, E. V.

Sturm, Charles-François

(See Speziali, Pierre, 31 #1168)

Sturm, Horst

(with Lesky, Peter) Fundamentalsysteme von Lösungen für lineare Differenzengleichungen zweiter Ordnung. *Monatsh. Math.* 73 (1969), 72-80. (G. R. Sell) 39 #3177

Sturm, Siegfried

* Mehrstufige Entscheidungen unter Ungewißheit. Zur Theorie adaptiver Prozesse. Wirtschaftswissenschaftliche Schriften, Heft 7. *Verlag Anton Hain, Meisenheim am Glan,* 1970. vii + 71 *pp.* (M. Mañas) 42 #7258

Sturm, Teo

The isotonic extension of isotonic mappings. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 92 (1967), 318-331. (S. Mardešić) 36 #3685

Sturrock, Peter

Scattering of elastrostatic waves by inhomogeneities in a plasma. *Phys. Fluids* 8 (1965), 281-285. (Author's summary) 32 #3444

Sturz, Iosif

(with Boroş, E.) On quasi-inverse matrices. (Romanian. Russian and German summaries) *An. Univ. Timisoara Ser. Sti. Mat.-Fiz. No.* 1 (1963), 59-66. (Authors' summary) 30 #2022

(with Geier, A.) The approximate calculation of a definite integral with automatic choice of integration steps (intervals). The program for the computer MECIPT I in a floating point regime. (Romanian. Russian and French summaries) *Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 133-139. (R. N. Goss) 30 #3588

On the simultaneous reduction of two quadratic forms to the sum of squares. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 233-239. (Author's summary) 32 #113

Stussi, F.

(See Euler, Leonard, 38 #977)

Stuth, Charles J.

Inner endomorphisms of semigroups. *Amer. Math. Monthly* 75 (1968), 282. (D. R. LaTorre) 37 #1498

(with Arendt, B. D.) On the structure of commutative periodic semigroups. *Pacific J. Math.* 35 (1970), 1-6. (T. Saitô) 42 #7805

(with Arendt, B. D.) On partial homomorphisms of semigroups. *Pacific J. Math.* 35 (1970), 7-9. (J. B. Kim) 42 #6139

Stutz, C.

(with Boas, R. P.) Estimating sums with integrals. *Amer. J. Phys.* 39 (1971), 745-753. (R. E. Barnhill) 44 #698

Stutz, John

The representation problem for differential operators on analytic sets. *Math. Ann.* 189 (1970), 121-133. (R. Gérard) 44 #2943

Stutz, Pierre

(with Montel, Bernard; Nègre, Robert; Sibille, Robert) Remarques sur l'étude de la répartition des contraintes sous un poinçon dans le cas de la symétrie axiale. *C. R. Acad. Sci. Paris* 259 (1964), 2963-2966. (D. R. Bland) 30 #776

Styan, George P. H.

(with Harary, Frank; Lipstein, Benjamin) A matrix approach to nonstationary chains. *Operations Res.* 18 (1970), 1168-1181. (A. K. Gayen) 43 #8127

Štykan, A. B.

The idea of the method of isoclines in one of the works of J. Bernoulli. (Russian) *Trudy Inst. Istor. Estest. Tehn.* 34 (1960), 350-359. (C. J. Scriba) 32 #2302

An approximate graphical solution of boundary value problems for ordinary differential equations. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 187-213. (I. Šelihova (RŽMat 1969 #6 B823)) 42 #4047

A geometric illustration of the conditions for the existence and uniqueness of the solutions of first order ordinary differential equations. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 326-335. *(errata insert)* (G. Drinfel'd (RŽMat 1969 #5 B217)) 42 #3336

Styles, Carolyn C.

(with Harris, V. C.) A generalization of Fibonacci numbers. *Fibonacci Quart.* 2 (1964), 277-289. (T. Hayashida) 30 #3050

On evaluating certain coefficients. *Fibonacci Quart.* 4 (1966), 139-147. (L. K. Durst) 37 #182

(with Harris, V. C.) Generalized Fibonacci sequences associated with a generlaized Pascal triangle. *Fibonacci Quart.* 4 (1966), 241-248. (D. G. Cantor) 34 #7439

Stypiński, Zenon

On Orlicz spaces with mixed norms. I. Inequalities for trigonometric polynomials. *Prace Mat.* 11 (1968), 247-253. (T. Shimogaki) 37 #4598

Steklov means in Orlicz spaces. *Prace Mat.* 11 (1968), 297-303. (T. Shimogaki) 37 #3345

On approximation of generalized almost periodic functions. *Prace Mat.* 12 (1968), 161-164. (J. Musielak) 38 #4872

Styrikovič, R. S.

(with Lebedev, B. D.; Podinovskiĭ, V. V.) An optimization problem with respect to the ordered totality of criteria. (Russian) *Èkonom. i Mat. Metody* 7 (1971), 612-616. (V. F. Dem'janov) 44 #5105

Stys', T.

Hopf's theorem for a certain elliptic system of linear second-order equations. (Polish. Russian and English summaries) *Prace Mat.* 8 (1963/64), 143-146. (R. Carroll) 30 #341

A priori estimates for solutions of certain linear systems of second order differential equations of elliptic type. (Russian. English summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 639-640. (J. Nečas) 33 #405

On the unique solvability of the first Fourier problem for a parabolic system of linear differential equations of second order. (Russian) *Prace Mat.* 9 (1965), 283-289. (R. K. Juberg) 32 #4399

The maximum principle for the systems of the difference equations. *Ann. Polon. Math.* 20 (1968), 223-230. (A. Haimovici) 38 #4044

Styve, Birger

A variant of Pólya's urn model. (Norwegian. English summary) *Nordisk Mat. Tidskr.* 13 (1965), 147-152. (Author's summary) 33 #6663

Su, C. C.

(with Ku, Y. H.; Mekel, Ralph) Stability and design of nonlinear control systems via Liapunov's criterion. *IEEE Internat. Convention Record* 1964, *pt.* 1, 154-170. (From the authors' summary) 39 #2487

Su, Chau-Hsing

Kinetic theory of a weakly coupled gas. *J. Mathematical Phys.* 5 (1964), 1273-1290. (Sylvan Katz) 29 #4534

Kinetic equation of classical Boltzmann gases. *Phys. Fluids* 7 (1964), 1248-1255. (L. Z. Dumitrescu) 30 #909

Linearized near-free molecule Couette flow. *Phys. Fluids* 7 (1964), 1867-1868. (J. K. Thurber) 31 #4536

Theory of the linear Fokker-Planck collision operator. *J. Mathematical Phys.* 8 (1967), 248-254. (Author's summary) 35 #1315

(with Pao, Young-ping) On the instability of certain nonlinear periodic waves. *J. Math. Mech.* 19 (1969/70), 951-961. (D. Ramakrishna Rao) 44 #647

(with Gardner, C. S.) Korteweg-de Vries equation and generalizations. III. Derivation of the Korteweg-de Vries equation and Burgers equation. *J. Mathematical Phys.* 10 (1969), 536-539. (Authors' summary) 42 #6409

Su, Chen-jyi

(with Chen, Wea-chin) The relation between G_δ-set and continuity set. *Tamkang J. Math.* 1 (1970), *no.* 2, 103-108. (D. C. Kent) 43 #8057

Su, J. C.

A note on periodic transformations. *Hung-Ching Chow 60th Anniversary Vol., pp.* 99-107. *Inst. of Math., Acad. Sinica, Taipei,* 1962. (P. A. Smith) 31 #4030

Periodic transformations on the product of two spheres. *Trans. Amer. Math. Soc.* 112 (1964), 369-380. (T. Stweart) 29 #612

A note on the bordism algebra of involutions. *Michigan Math. J.* 12 (1965), 25-31. (R. H. Szczarba) 31 #4040

An example. *Proc. Conf. on Transformation Groups (New Orleans, La, 1967), p.* 351. *Springer, New York,* 1968. (P. S. Mostert) 39 #6304

Some results on cyclic transformation groups on homotopy spheres. *Proc. Conf. on Transformation Groups (New Orleans, La., 1967), pp.* 193-204. *Springer, New York,* 1968. (Deane Montgomery) 41 #4579

(with Hsiang, Wu-yi) On the classification of transitive effective actions on Stiefel manifolds. *Trans. Amer. Math. Soc.* 130 (1968), 322-336. (H. A. Eliopoulos) 36 #4581

(with Ku, H. T.; Mann, L. N.; Sicks, J. L.) Degree of symmetry of a product manifold. *Trans. Amer. Math. Soc.* 146 (1969), 133-149. (K. H. Mayer) 40 #3579 (with Ku, H. T.; Mann, L. N.; Sicks, J. L.) Degree of symmetry of a homotopy real projective space. *Trans. Amer. Math. Soc.* 161 (1971), 51-61. (T. Nagano) 43 #8089

Su, Li Pi

Algebraic properties of certain rings of continuous functions. *Pacific J. Math.* 27 (1968), 175-191. (M. Nakai) 39 #786

A homology theorem for rings of functions. *Amer. Math. Monthly* 76 (1969), 804-806. (J. Dugundji) 41 #2665

Su, Min-yen

(with Desoer, Charles A.) Stability of linear time-invariant systems. *IEEE Trans. Circuit Theory* CT-15 (1968), 245-250. (Authors' summary) 40 #1157

Suárez, Alberto

(with Diego, Antonio) Two sets of axioms for Boolean algebras. *Portugal. Math.* 23 (1964), 139-145. (B. Brainerd) 32 #4053

Suarez, Francisco Poyatos. See Poyatos Suarez, Francisco.

Suárez, Juan José Gutierrez. See Gutiérrez Suárez, Juan José.

Šuba, I. M.

(with Hīmič, Ī. V.) Nucleon form-factors for asymptotically large transfer momenta. (Russian. English summary) *Ukraïn. Fīz. Ž.* 13 (1968), 1622-1627. (J. Burlak) 38 #3408

Subbarami Reddy, P. See Reddy, P. Subbarami.

Subbarao, M. V.

The Brauer-Rademacher identity. *Amer. Math. Monthly* 72 (1965), 135-138. (E. Cohen) 30 #3863

Some remarks on the partition function. *Amer. Math. Monthly* 73 (1966), 851-854. (Morris Newman) 34 #1293

On relatively prime sequences. *Amer. Math. Monthly* 73 (1966), 1099-1102. (B. M. Stewart) 34 #4236

Arithmetic functions satisfying a congruence property. *Canad. Math. Bull.* 9 (1966), 143-146. (H. J. Godwin) 33 #3993

(with Warren, L. J.) Unitary perfect numbers. *Canad. Math. Bull.* 9 (1966), 147-153. (H. J. Godwin) 33 #3994

(with Gioia, A. A.) Generating functions for a class of arithmetic functions. *Canad. Math. Bull.* 9 (1966), 427-431. (S. L. Segal) 34 #7438

A congruence for a class of arithmetic functions. *Canad. Math. Bull.* 9 (1966), 571-574. (L. Carlitz) 34 #2520

(with Harris, V. C.) A new generalization of Ramanujan's sum. *J. London Math. Soc.* 41 (1966), 595-604. (W. Schwarz) 34 #133

A note on the arithmetic functions $C(n,r)$ and $C^*(n,r)$. *Nieuw Arch. Wisk.* (3) 14 (1966), 237-240. (H. Gupta) 34 #4193

(with Gioia, A. A.) Identities for multiplicative functions. *Canad. Math. Bull.* 10 (1967), 65-73. (S. L. Segal) 35 #6638

An arithmetic function and as associated probability theorem. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 93-95. (W. Schwarz) 34 #7478

A class of arithmetical equations. *Nieuw Arch. Wisk.* (3) 15 (1967), 211-217. (R. Spira) 36 #6341

A class of additive functions. *Amer. Math. Monthly* 75 (1968), 257-260. (T. M. Apostol) 37 #1331

Arithmetic functions and distributivity. *Amer. Math. Monthly* 75 (1968), 984-988. (H. J. Godwin) 38 #5705

Remarks on a paper of P. Kesava Menon. *J. Indian Math. Soc. (N.S.)* 32 (1968), *suppl. I,* 317-318 (1970). (H. J. Kanold) 43 #6153

Some classes of complete sequences and approximations in normed linear spaces. *Publ. Ramanujan Inst. No.* 1 (1968/69), 189-197. (F. Deutsch) 42 #2237

(with Vidyasagar, M.) On Watson's quintuple product identity. *Proc. Amer. Math. Soc.* 26 (1970), 23-27. (H. Gupta) 41 #8370

Perfect triangles. *Amer. Math. Monthly* 78 (1971), 384-385. (E. M. Horadam) 43 #6155

(with Feng, Y. K.) On the distribution of generalized K-free integers in residue classes. *Duke Math. J.* 38 (1971), 741-748. (E. M. Horadam) 44 #2716

On a partition theorem of MacMahon-Andrews. *Proc. Amer. Math. Soc.* 27 (1971), 449-450. (H. Gupta) 42 #7617

Partition theorems for Euler pairs. *Proc. Amer. Math. Soc.* 28 (1971), 330-336. (H. Gupta) 43 #175

(with Carlitz, L.) A simple proof of the quintuple product identity. *Proc. Amer. Math. Soc.* 32 (1972), 42-44. (H. Gupta) 44 #6507

Subba Rao, S.

Bulk queues with arbitrary arrivals and exponential service time distributions. *Defence Sci. J.* 15 (1965), 1-9. 32 #3168

Queuing models with balking, reneging, and interruption. *Operations Res.* 13 (1965), 596-608. (L. Takács) 32 #1781

Queueing models with balking and reneging. *Ann. Inst. Statist. Math.* 19 (1967), 55-71. (J. Riordan) 35 #6228

The effect of postponable interruptions on a $M/G/1$ system with impatient customers. *Austral. J. Statist.* 9 (1967), 16-34. (C. Hayashi) 35 #7438

Queuing with balking and reneging in $M/G/1$ systems. *Metrika* 12 (1967/68), 173-188. (Author's summary) 37 #2338

Balking and reneging in $M/G/1$ systems with post-ponable interruptions. *Metrika* 14 (1968), 101-116. (G. C. Ghirtis) 38 #6687

(with Jaiswal, N. K.) On a class of queuing problems and discrete transforms. *Operations Res.* 17 (1969), 1062-1076. (H. L. Seal) 40 #5045

(with Keilson, Julian) A process with chain dependent growth rate. *J. Appl. Probability* 7 (1970), 699-711. (Z. Šidák) 43 #8141

(with Natarajan, R.) Reliability with standbys. *Opsearch* 7 (1970), 23-36. (R. J. Buehler) 43 #5672

Subbo Rao, T.

On the cross periodogram of a stationary Gaussian vector process. *Ann. Math. Statist.* 38 (1967), 593-597. (E. Parzen) 35 #1167

Cross spectral analysis of a Gaussian vector process in the presence of variance fluctuations. *Ann. Math. Statist.* 39 (1968), 1507-1512. (S. Csibi) 38 #848

A note on the asymptotic relative efficiencies of Cox and Stuart's tests for testing trend in dispersion of a p-dependent time series. *Biometrika* 55 (1968), 381-385. 38 #849

(with Priestley, M. B.) A test for non-stationarity of time-series. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 140-149. 42 #3958

The fitting of non-stationary time-series models with time-dependent parameters. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 312-322. (Author's summary) 42 #3961

Subba Rao, V.

(with Nigam, S. D.) Wave propagation in rotating elastic media. *Mathematika* 11 (1964), 29-38. (K. Stewartson) 29 #5459

Subbotin, A. I.

Control of motion of a quasilinear system. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1113-1118. (P. Sagirow) 35 #6955

On the problem of the game-interception of motions. *Prikl. Mat. Meh.* 31 (1967), 834-840 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 842-848 (1968). (Y. C. Ho) 37 #3850

Regularization of a certain problem on the contact of motions. (Russian) *Differencial'nye Uravnenija* 4 (1968), 779-784. (Š. Schwabik) 37 #6115

(with Krasovskiĭ, N. N.) Optimal deviation in a differential game. (Russian) *Differencial'nye Uravnenija* 4 (1968), 2159-2165. (C. Olech) 40 #3913

(with Krasovskiĭ, N. N.) The problem of convergence of controlled objects. *Prikl. Mat. Meh.* 32 (1968), 575-586 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 597-608 (1969). (E. O. Roxin) 40 #1149

(with Krasovskiĭ, N. N.) Mixed control in a differential game. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 745-747. (J. Kučera) 40 #3914

(with Krasovskiĭ, N. N.) Optimal strategies in a linear differential game. *Prikl. Mat. Meh.* 33 (1969), 698-704 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 675-682 (1970). (J. Fichefet) 41 #9592

(with Krasovskiĭ, N. N.) A differential guidance game. (Russian) *Differencial'nye Uravnenija* 6 (1970), 579-591. (A. Friedman) 42 #5652

(with Krasovskiĭ, N. N.) The structure of differential games. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 523-526. (A. Friedman) 41 #3125

Differential games with constraints on the phase states. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 294-297. (A. Friedman) 42 #2820

(with Krasovskiĭ, N. N.) Extremal strategies in differential games. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 278-281. (A. Friedman) 42 #8935

Subbotin, A. L.

Algebraic semilattice and traditional formal logic. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 233-253. *Izdat. "Nauka", Moscow,* 1967. 36 #1310

Subbotin, Ju. N.

On the connection between finite differences and corresponding derivatives. (Russian) *Trudy Mat. Inst. Steklov.* 78 (1965), 24-42. (I. M. Sheffer) 32 #7978

Piecewise-polynomial interpolation. (Russian) *Mat. Zametki* 1 (1967), 63-70. (C. de Boor) 35 #4645

The best approximation of a class of functions by another class. (Russian) *Mat. Zametki* 2 (1967), 495-504. (G. G. Lorentz) 36 #3031

Functional interpolation in the mean with smallest nth derivative. (Russian) *Trudy Mat. Inst. Steklov.* 88 (1967), 30-60. (L. Veidinger) 36 #3002

(with Taĭkov, L. V.) Best approximation of a differentiation operator in the space L_2. (Russian) *Mat. Zametki* 3 (1968), 157-164. (P. C. Sikkema) 37 #4471

The basis in $C(0,2\pi)$. (Russian) *Proc. Central Regional Union of Math. Departments, No. 1: Functional Anal. and Function Theory (Russian), pp.* 141-144. *Kalinin. Gos. Ped. Inst. Kalinin,* 1970. (Ivan Singer) 42 #6472

Approximation of the functions of class $W^kH^p_\omega$ by splines of order m. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1039-1041. (K.-H. Hauer) 42 #8139

(with Černyh, N. I.) The order of the best spline approximations of certain classes of functions. (Russian) *Mat. Zametki* 7 (1970), 31-42. (H. E. Warren) 41 #4077

The diameter of the class $W^r L$ in $L(0,2\pi)$ and approximation by spline-functions. (Russian) *Mat. Zametki* 7 (1970), 43-52. (M. L. Juncosa) 41 #4078

A certain linear method of approximation of differentiable functions. (Russian) *Mat. Zametki* 7 (1970), 423-430. (H. E. Warren) 42 #4930

The relation of spline approximations to the problem of approximating a class by a class. (Russian) *Mat. Zametki* 9 (1971), 501-510. (A. S. Cavaretta) 44 #7192

Subbotin, V. F.

Existence theorems for periodic solutions of differential equations with a retarded argument. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 4, 128-134. (V. Lakshmikantham) 33 #7808

(with Borisovič, Ju. G.) The displacement operator on the trajectories of equations of evolution, and periodic solutions. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 9-12. (M. Bertolino) 35 #6923

On the structure of the set of solutions of differential equations with retarded argument. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 120-123. (B. S. Popov) 34 #7920

Subbotovskaja, B. A.

Comparison of bases for the realization by formulas of functions of an algebra of logic. (Russian) *Dokl. Akad. Nauk SSSR* 149 (1963), 784-787. (R. M. Baer) 30 #3023

Šubert, Bruno

An asymptotically optimal decision procedure. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 573-587. *Academia, Prague,* 1967. (L. J. Gleser) 37 #5977

Error in generating a normal distribution. (Czech and Russian summaries) *Apl. Mat.* 12 (1967), 130-135. (J. H. Halton) 35 #4052

(with Jílovec, Stanislav) Repetitive play of a game against nature. (Czech and Russian summaries) *Apl. Mat.* 12 (1967), 383-397. (M. Timofeeva (RŽMat 1968 #4 V338)) 42 #7295

The theory of strategic games. (Czech. English summary) *Ekonom.-Mat. Obzor* 3 (1967), 1-28. (From the author's summary) 34 #7221

Subhankulov, M. A.

(with Babaev, G.) An asymptotic formula for two additive problems. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 49-68. (W. Schwarz) 36 #1409

A Tauberian theorem with remainder term for the Stieltjes transform. (Russian) *Tadžik. Gos. Univ. Učen. Zap.* 26 (1963), *vyp.* 1, 77-86. (L. Berg) 36 #1879

On a theorem of Littlewood. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 1, 22-30. (J. Korevaar) 29 #5025

(with An, F. I.) A Tauberian theorem and its application to the rapidity of convergence of Fourier series. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 5-13. (J. Korevaar) 31 #5011

(with Kraĭnova, L. I.) Boundary values of the Poisson integral and the convergence of a Fourier series at a point. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 11, 8-11. (F. Ustina) 34 #6423

(with Kraĭnova, L. I.) Boundary values of the Poisson integral and the rapidity of convergence of the Fourier series of a continuous function. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 9 (1966), *no.* 12, 3-6. (G. Goes) 34 #4800

(with Kraĭnova, L. I.) On the rapidity of convergence and $(C.1)$ summability of Fourier series and conjugate functions. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 1, 7-9. (O. E. Stanaitis) 34 #6435

(with Kraĭnova, L. I.) Boundary values of the Poisson integral and convergence of Fourier series. I. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 1, 23-31. (J. Musielak) 34 #8066

(with Kraĭnova, L. I.) Boundary values of a Poisson integral and speed of convergence of the Fourier series of a continuous function. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 4, 21-28. (J. Musielak) 35 #7067

The convergence of conjugate Fourier series. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 50-62. (R. P. Boas, Jr.) 36 #5597

(with An, F. I.) M. V. Keldyš's Tauberian theorem. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 47-50. (G. Halász) 39 #5988

(with Izrailova, M. M.; Ljubimova, L. S.) Approximation of the partial sums of double conjugate trigonometric series of continuous functions by Poisson integrals. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 14 (1971), *no.* 4, 11-17. (L. Gogoladze) 44 #5717

Šubin, M. A.

Certain properties of generalized ω-limiting sets of dynamical systems. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 58-60. (W. H. Gottschalk) 33 #4912

Uniqueness of solution of the Cauchy problem for convolution equations. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 321-336. (E. Gerlach) 35 #1987

Factorization of matrix functions dependent on a parameter in normed rings, and related questions in the theory of Noetherian operators. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 610-629. (E. Gerlach) 36 #727

Operators "in general position" in Hilbert spaces. (Russian) *Mat. Zametki* 1 (1967), 699-702. (B. Walsh) 35 #4750

On the index of higher-dimensional Wiener-Hopf equations in a half-space. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 3 (147), 222. (J. Nieto) 40 #6312

Holomorphic families of subspaces of a Banach space. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 4 (18), 153-165. (R. Kaufman) 44 #2948a

Pseudodifferential operators in R^n. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 316-319. (Ja. A. Roĭtberg) 42 #8341

The local principle in the factorization problem. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 1 (19), 174-180. (S. Rolewicz) 44 #2930

Letter to the editors. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 1 (19), 180. (R. Kaufman) 44 #2948b

Šubnikov, A. V.

Thirty-two crystallographic groups containing only rotations and antirotations. *Kristallografija* 10 (1965), 775-778 *(Russian); translated as Soviet Physics Cryst.* 10 (1966), 655-657. (J. Zak) 33 #2354

Suboč, N. N.

Realization of monotone functions of a logic algebra by contact Π-schemes. (Russian) *Problemy Kibernet. No.* 17 (1966), 247-253. (A. A. Mullin) 36 #2438

The realization of monotone functions with a small number of conjunctions in the reduced disjunctive normal form by schemes from closing contacts. (Russian) *Diskret. Analiz No.* 15 (1969), 66-78. (Ivan Havel) 44 #5189

Subrahmaniam, K.

A note on estimation in the truncated Poisson. *Biometrika* 52 (1965), 279-282. (L. A. Aroian) 34 #6915

A test for "intrinsic correlation" in the theory of accident proneness. *J. Roy. Statist. Soc. Ser. B* 28 (1966), 180-189. (N. L. Johnson) 34 #3711

Some contributions to the theory of non-normality. I. Univariate case. *Sankhyā Ser. A* 28 (1966), 389-406. (A. K. Gayen) 35 #5040

On a general class of contagious distributions: The Pascal-Poisson distribution. (Spanish summary) *Trabajos Estadíst.* 17 (1966), *cuad.* 2-3, 109-128. (G. P. Patil) 34 #8533

Some contributions to the theory of non-normality. III. *Sankhyā Ser. B* 30 (1968), 383-408. (Author's summary) 40 #8158

Some contributions to the theory of non-normality. II. *Sankhyā Ser. A* 30 (1968), 411-432. (Author's summary) 40 #8157

On some applications of Mellin transforms to statistics: Dependent random variables. *SIAM J. Appl. Math.* 19 (1970), 658-662. (Bernard Harris) 43 #4166

Subrahmanya, M. T.

Tables for two sided tolerance intervals for normal distribution $N(\mu,\sigma)$ with μ unknown and σ known. *J. Indian Statist. Assoc.* 3 (1965), 195-201. 33 #5035

On generalized estimators in sampling from finite populations. (German summary) *Metrika* 9 (1965), 234-239. 32 #8441

A note on a biased estimator in sampling with probability proportional to size with replacement. *Ann. Math. Statist.* 37 (1966), 1045-1047. (T. Dalenius) 33 #1947

On the positivity of a variance-estimator. *Metrika* 12 (1967), 43-47. (Author's summary) 35 #7555

Subrahmanyam, N. V.

Boolean vector spaces. I. *Math. Z.* 83 (1964), 422-433. (J. L. Zemmer) 30 #43

Boolean vector spaces. II. *Math. Z.* 87 (1965), 401-419. (J. L. Zemmer) 30 #3043

Boolean vector spaces. III. *Math. Z.* 100 (1967), 295-313. (J. L. Zemmer) 35 #6599

Congruent embedding into Boolean vector spaces. *Symposia on Theoretical Physics and Mathematics, Vol.* 8 *(Symposium, Madras,* 1967*), pp.* 165-172. *Plenum, New York,* 1968. (J. L. Zemmer) 39 #2678

Subrahmanyam, S. S. See Subramanyam, S. S.

Subrahmanya Sastri, V. V.

A result concerning the Euler's function $f(x) = \Pi_1^\infty (1 - x^n)$. *Math. Student* 35 (1967), 85-87 (1969). (D. Rearick) 40 #5563

On some properties of partitions. *Math. Student* 35 (1967), 177-192 (1969). (L. D. Baumert) 40 #5567

On a certain totient function for generalised integers. *Math. Student* 37 (1969), 59-66. 42 #1757

Subramaniam, R.

(with Kas, Sisir Chandra) Bars reinforced by hyperboloidal type notches under pure bending. *Z. Angew. Math. Mech.* 44 (1964), 265-267. (M. Nassif) 30 #1661

Subramanian, Ganesan

(with Ramkrishna, Doriaswami) On the solution of statistical models of cell populations. *Math. Biosci.* 10 (1971), 1-23. (R. M. Cormack) 44 #7993

Subramanian, H.

The structure space of a ring. *Math. Student* 34 (1966), 179-184 (1968). (Editors) 37 #4060

l-prime ideals in *f*-rings. *Bull. Soc. Math. France* 95 (1967), 193-203. (F. Cunningham, Jr.) 36 #6332

Kaplansky's theorem for *f*-rings. *Math. Ann.* 179 (1968), 70-73. (S. J. Bernau) 38 #5681

(with Padmanabhan, R.) Ideals in semirings. *Math. Japon.* 13 (1968), 123-128. (D. R. LaTorre) 39 #6932

Ideal neighbourhoods in a ring. *Pacific J. Math.* 24 (1968), 173-176. (M. E. Shanks) 36 #3831

Integer-valued continuous functions. *Bull. Soc. Math. France* 97 (1969), 275-283. (J. Kist) 40 #7820

On theory of *x*-ideals. *J. Algebra* 12 (1969), 134-142. (P. F. Conrad) 39 #1385

Von Neumann regularity in semirings. *Math. Nachr.* 45 (1970), 73-79. (D. R. LaTorre) 43 #2028

Principal ideals in the ideal lattice. *Proc. Amer. Math. Soc.* 31 (1972), 445. (P. F. Conrad) 44 #1651

Subramanian, P. V.

(with Parthasarathy, K.; Narayana Iyengar, B. N.) Development of improved Lyapunov functions for transient power system stability study. *Internat. J. Systems Sci.* 1 (1970), *no.* 2, 143-151. (P. Hagedorn) 42 #4245

Subramanian, Pudukkottai K.

(with Becker, S. F.) On highly composite consecutive integers. *Amer. Math. Monthly* 73 (1966), 510-513. (R. A. Rankin) 33 #1279

On bases and cycles. *Math. Mag.* 41 (1968), 117-123. (B. M. Stewart) 38 #108

Subramanian, R.

(with Srinivasan, S. K.) Queuing theory and imbedded renewal processes. *J. Mathematical and Physical Sci.* 3 (1969), 221-244. (S. Ekberg) 41 #9379

(with Ramesh, K. S.) A stochastic model for pulse campaign advertisements. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 399-406. (K. Swarup) 41 #6558

Subramannya, M. T.

(with Mitra, Sujit Kumar) A robust property of the OC of binomial and Poisson sampling inspection plans. *Sankhyā Ser. B* 30 (1968), 335-342. (Authors' summary) 40 #6682

Subramanyam, D. S.

On the asymptotic behaviour of the solutions of the linear homogeneous differential-difference equation with real constant coeffienents in a critical case. *Math. Nachr.* 40 (1969), 201-223. (R. K. Miller) 40 #3013

Subramanyam, S. S.

On the general isotomic line-involution. *Math. Student* 31 (1963), 47-50 (1964). (D. J. Struik) 29 #3945

On permutable quadratic involutions. *J. Indian Math. Soc. (N.S.)* 27 (1963), 167-183 (1964). (M. Rosati) 32 #2967

Examples of certain higher Cremona involutions. *J. Indian Math. Soc. (N.S.)* 27 (1963), 185-195 (1964). (M. Rosati) 32 #2968

On collinear feet of θ-lines of the sides of a triangle. *J. Indian Math. Soc. (N.S.)* 29 (1965), 93-99. (H. R. Müller) 32 #1587

On oblique pedal lines of cyclic polygons. *J. Indian Math. Soc. (N.S.)* 30 (1966), 117-130 (1967). (H. R. Müller) 36 #4420

On three θ-deltoids. *Math. Student* 34 (1966), 63-67 (1967). (L. Gyarmathi) 36 #7006

On some Cremona involutions concerning certain deltoids. *Math. Student* 37 (1969), 35-41. 42 #944

Su Buchin. See Su Pu-ch'ing.

Su Bu-qing. See Su Pu-ch'ing.

Succi, Francesco

Sul gruppo moltiplicativo delle funzioni aritmetiche regolari. *Rend. Mat. e Appl.* (5) 19 (1960), 458-472. (J. P. Kubilius (RŽMat 1962 #5 A135)) 30 #4717

Il teorema di de Rham e la dualità per le varietà relative. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 496-503. (G. Hirsch) 30 #532

Realizzazione dell'isomorfismo di de Rham per le varietà relative. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 639-644. (C. B. Allendoerfer) 32 #6492

Alcune osservazioni sui teoremi di de Rham. (English summary) *Riv. Mat. Univ. Parma* (2) 7 (1966), 35-46. (J. P. Wilson) 37 #6860

Il teorema di de Rham olomorfo nel caso relativo. I. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 784-791. (C. B. Allendoerfer) 37 #3468

Il teorema di de Rham olomorfo nel caso relativo. II. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 43 (1967), 276-280. (C. B. Allendoerfer) 38 #626

Suchá, Marie. See Kopáčková, Marie.

Suchar, M.

On a certain generalization of the Michell problem. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 645-657. (L. M. Milne-Thomson) 29 #5443

Sucher, Joseph

(with Segrè, G.) Broken symmetries and mass formulae for vector mesons. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 428-437. (T. K. Kuo) 33 #5287

(with Feinberg, G.) Long-range electromagnetic forces on neutral particles. *Phys. Rev.* (2) 139 (1965), B1619-B1633. (S. N. Biswas) 32 #8784

(with Lévy, Maurice) Eikonal approximation in quantum field theory. *Phys. Rev.* (2) 186 (1969), 1656-1670. (P. Pascual) 41 #4957

(with Otterson, P. J.) Singularity structure of causal distributions and restricted equal-time limits. *J. Mathematical Phys.* 11 (1970), 3307-3316. (H. Araki) 42 #5557

Sucheston, Louis

On existence of finite invariant measures. *Math. Z.* 86 (1964), 327-336. (J. H. Neuwirth) 32 #7706

(with Dean, David W.) On invariant measures for operators. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 1-9. (R. V. Chacon) 35 #336

Banach limits. *Amer. Math. Monthly* 74 (1967), 308-311. (M. V. Subbarao) 37 #740

On the ergodic theorem for positive operators. *Bull. Amer. Math. Soc.* 73 (1967), 403-406. (R. L. Adler) 34 #6027

On the ergodic theorem for positive operators. I. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 1-11. (R. V. Chacon) 35 #4371

On the ergodic theorem for positive operators. II. Behavior of the ratio on the disappearing part Z^1. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 353-356. (R. V. Chacon) 36 #5306

(with Krengel, U.) On mixing in infinite measure spaces. *Bull. Amer. Math. Soc.* 74 (1968), 1150-1155. (W. Parry) 38 #4648

(with Klimko, L. A.) On probabilistic limit theorems for a class of positive matrices. *J. Math. Anal. Appl.* 24 (1968), 191-201. (N. C. Jain) 38 #776

(with Klimko, E. M.) On convergence of information in spaces with infinite invariant measure. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 226-235. (W. Parry) 39 #1231

(with Klimko, E. M.) An operator ergodic theorem for sequences of functions. *Proc. Amer. Math. Soc.* 20 (1969), 272-276. (B. Weiss) 38 #2277

(with Krengel, U.) Note on shift-invariant sets. *Ann. Math. Statist.* 40 (1969), 694-696. (S. R. Foguel) 38 #5256

(with Krengel, U.) On mixing in infinite measure spaces. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 150-164. (M. A. Akcoglu) 40 #7424

(See also Contributions to ergodic theory and probability, 42 #3256)

(with Ornstein, Donald S.) On the existence of a σ-finite invariant measure under a generalized Harris condition. *Contributions to Ergodic Theory and Probability (Proc. Conf., Ohio State Univ., Columbus, Ohio, 1970), pp.* 219-233. *Springer, Berlin,* 1970. (R. N. Jain) 43 #6399

(with Ornstein, Donald) An operator theorem on L_1 convergence to zero with applications to Markov kernels. *Ann. Math. Statist.* 41 (1970), 1631-1639. (S. Orey) 42 #6938

Suchkov, V. A. See Sučkov, V. A.

Suchkov, V. R. See Sučkov, V. A.

Suchomel, Jaromír

Wronskische Determinanten von Lösungen iterierter Gleichungen. *Czechoslovak Math. J.* 19(94) (1969), 711-715. (M. E. Muldoon) 40 #5955

Über gewisse Zerlegungen der Gewöhnlichen linearen homogenen Differentialgleichung. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 381-382. (M. Q. Jacobs) 42 #6327

Suchowitzki, Semen I. See Zuhovickiĭ, S. I.

Suchowizki, S. I. See Zuhovickiĭ, S. I.

Suciu, Gh.

(with Poenaru, S.) Legendre polynomials in vector form. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27)(1968), *fasc.* 1, 21-29. (F. M. Arscott) 41 #5691

(with Poenaru, S.) Systems of Legendre type differential equations. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27) (1968), *fasc.* 1, 31-35. (F. M. Arscott) 41 #5692

(with Poenaru, S.) A generalization of the Rodrigues formula for Hermite polynomials. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27) (1968), *fasc.* 2, 281-284. (Authors' summary) 40 #7506 (with Poenaru, S.) The approximation of complex vector-valued functions by Čebyšev polynomials. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 14(28) (1969), *fasc.* 1, 45-50. (I. Kolumbán) 42 #558

(with Poenaru, S.) Vector differential equations of Legendre type in the complex domain. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 14(28) (1969), *fasc.* 1, 51-57. (W. Strodt) 40 #7518

uciu, Ion I.

Eine natürliche Erweiterung der kommutativen Banachalgebra. *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 483-491. (M. Fukamiya) 31 #1571

Bruchalgebren der Banachalgebren. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 313-316. (P. Civin) 31 #1572

Analytic Banach algebras. (Romanian) *Acad. R. P. Romîne Stud. Cerc. Mat.* 15 (1964), 55-76. (Ivan Singer) 32 #2934; errata, 33, p. 1600

Dilatable spectral representations of a commutative Banach algebra. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 1211-1220. (R. C. Gilbert) 32 #6251

On the algebras generated by the inner functions. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1423-1430. (G. P. Johnson) 34 #633

(with Foiaş, C.) Szegö-measures and spectral theory in Hilbert spaces. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 147-159. (R. G. Douglas) 34 #3363

Interpolation sequences and structure of the space of maximal ideals in H^∞. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1029-1038. (Editors) 36 #4002

Unitary dilations in case of a partially ordered group. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 271-275. (S. Kantorovitz) 35 #3482

Theory of H^p spaces in the case of algebras of functions. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 757-801. (G. G. Weill) 40 #6270

Contributions to the spectral theory of operator representations of the algebra of functions. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1359-1407. (Author's summary) 43 #974

On the semi-groups of isometries. *Studia Math.* 30 (1968), 101-110. (R. G. Douglas) 37 #4671

(with Foiaş, C.) On operator representation of logmodular algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 505-509. (G. P. Johnson) 38 #6357

* Algebre de funcţii. (Romanian) [Function algebras] *Editura Academiei Republicii Socialiste România, Bucharest,* 1969. 239 *pp.* (V. Istrăţescu) 40 #3318

The Wold decomposition for the subspectral representations of function algebras. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 283-296. (J. F. Smith) 44 #2039

Sučkov, V. A.

Double waves of a plane potential flow of a polytropic gas. (Russian) *Trudy Mat. Inst. Steklov.* 74 (1966), 156-167. (J. H. Giese) 37 #2497

Sučkov, V. K.

A theorem of R. Baer about the norm. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 103-106 (1967). (F. Šik) 36 #2704

Maximal π-critical subgroups of a finite group. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 1 (68), 98-107. (E. Schenkman) 36 #5228

The influence of the properties of certain maximal subgroups on the structure of a finite group. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1395-1401. (J. Wiegold) 39 #1560

The influence of the properties of n-maximal π-critical subgroups on the structure of a finite group. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 3, 53-64 (1968). (B. Hartley) 42 #3180

Finite groups with given properties of maximal subgroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 12 (103), 97-102. (R. Kochendörffer) 44 #307

Suda, Nobuhide

(with Kawabe, Morihiko) Optimal control with parameter sensitivity constraints. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 191-200. (Authors' summary) 42 #4276

(with Fujii, Takao) Recursive estimate of system dynamics with deterministic input. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 461-474. (Authors' summary) 42 #4230

Decoupling of multivariable systems by output feedback. *Systems and Control* 15 (1971), 231-238. (Author's summary) 43 #1678

Diagonalization of transfer function matrix and controllability. (Japanese. English summary) *Systems and Control* 15 (1971), 817-822. (Author's summary) 44 #8008

Sudakov, V. N.

(with Dalec'kiĭ, Ju. L.; Krylov, V. Ju.; Minlos, R. A.) Functional integration and measures in function spaces. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp.* 282-292. *Izdat. "Nauka", Leningrad,* 1964. (A. Veršik (RŽMat 1965 #4 B553)) 36 #2772

(with Halfin, L. A.) A statistical approach to the correctness of the problems of mathematical physics. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1058-1060. (Petr Mandl) 29 #2858

(with Kagan, A. M.) Separating partitions for certain families of measures. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 3, 147-150. (J. Neyman) 29 #3605

(with Kagan, A. M.) The structure of a complete class of unbiased estimates for distribution families of a special form. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 267-269. (James Hannan) 32 #4774

(with Romanovskiĭ, I. V.) On the existence of independent partitions. (Russian) *Trudy Mat. Inst. Steklov.* 79 (1965), 5-10. (Z. Klement'ev (RŽMat 1966 #2 V11)) 36 #3386

On the existence of random variables independent of several given ones. (Russian) *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 589-594. *Academia, Prague,* 1967. (W. Hoeffding) 36 #2179

A general theory of measure in linear spaces, and realizations of Gaussian processes. (Russian) *Proc. Sixth. Math. Summer School: Probability Theory and Math. Statist. (Kaciveli,* 1968*) (Russian), pp.* 211-227. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (L. I. Gal'čuk) 43 #2766

Gauss and Cauchy measures and ε-entropy. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 51-53. (A. Badrikian) 40 #303

(with Veršik, A. M.) Probability measures in infinite-dimensional spaces. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 7-67. (W. R. Transue) 41 #421

Measures which can be defined by Markov times. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 157-164. (E. M. Klimko) 40 #5022

The independent complement to two decompositions in the case of the existence of bounded density. (Russian) *Trudy Mat. Inst. Steklov.* 111 (1970), 3-11. *(errata insert)* (I. Vajda) 44 #7604

A certain problem of G. Birkhoff. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 1280-1282. (R. D. Bourgin) 43 #5325

Gaussian random processes, and measures of solid angles in Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 43-45. (R. M. Dudley) 44 #6027

Sudakov, V. V.

(with Magomedov, M. R.) Realization of the three-dimensional unitary group by "spherical functions". *Ž. Èksper. Teoret. Fiz.* 49 (1965), 279-291 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 197-204. (M. A. B. Bég) 32 #8851

Sudan, Gabriel

(with Bucur, C.) Remarques sur deux théorèmes arithmétiques. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 235-238 (1964). (E. S. Barnes) 32 #1173

(with Bucur, C. D.) On the approximation of linear ternary forms. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politehn. Bucureşti* 25 (1963), *no.* 4, 13-17. (Authors' summary) 31 #4763

(with Bucur, C. D.) Sur un problème de Barbour et Brun. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 9(57) (1965), 227-233 (1966). (C. G. Lekkerkerker) 37 #2696

Sur le problème du rayon réfléchi. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 723-733. (Donald C. Benson) 34 #141

Sur un théorème de Kuipers et Meulenbeld. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1167-1171. (E. Frank) 35 #6626

Sur les suites interdites pour les fractions continues dont les éléments appartiennent aux corps $k(\sqrt{-7})$ et $k(\sqrt{-11})$. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1391-1398. (H. J. Godwin) 38 #4417

* Cîteva probleme matematice interesante. (Romanian) [Some interesting mathematical problems] *Editura Tehnică, Bucharest,* 1969. 133 *pp.* (From the author's summary) 42 #1620

Sudan, R. N.

Electromagnetic instabilities in the nonthermal relativistic plasma. *Phys. Fluids* 8 (1965), 153-160. (E. S. Weibel) 34 #2257

(with Ott, E.) Nonlinear theory of ion acoustic waves with Landau damping. *Phys. Fluids* 12 (1969), 2388-2394. (Y. Hayashi) 41 #2996

Sudarev, Ju. N.

The asymptotic distribution of the eigenvalues of elliptic operators in n-dimensional space. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1364-1374. (P. Grisvard) 36 #4176

The distribution of eigenvalues of a singular operator. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1676-1682. (A. Kufner) 38 #3634

Certain spectral asymptotic properties of singular operators. (Russian) *Mat. Zametki* 4 (1968), 169-172. (G. Biriuk) 39 #3174

Sudarshan, E. C. G.

(with Jordan, Thomas F.) Reduction of operator rings and the irreducibility axiom in quantum field theory. *J. Mathematical Phys.* 3 (1962), 587-594. (A. S. Wightman) 33 #1027

(with Ryan, C.) Representations of parafermi rings. *Nuclear Phys.* 47 (1963), 207-211. (O. W. Greenberg) 29 #6862 (with Dell'Antonio, G. F.; Greenberg, O. W.) Parastatistics: Axiomatic formulation, connection with spin and statistics and TCP theorem for a general field theory. *Group theoretical concepts and methods in elementary particle physics (Lectures Istabul Summer School Theoret. Phys., 1962), pp.* 403-407. *Gordon and Breach, New York,* 1964. (P. Roman) 30 #1755

* (with Marshak, R. E.) Introduction à la physique des particules élémentaires. Traduit par J. M. Lévy-Leblond. *Dunod, Paris,* 1964. xii + 259 *pp.* (Editors) 31 #1044

A mechanism of induction of symmetries among the strong interactions. *Phys. Lett.* 9 (1964), 286-288. (S. L. Glashow) 29 #1904

(with Mayer, Meinhard E.; Schnitzer, Howard J.; Acharya, R.; Han, M. Y.) Concerning space-time and symmetry groups. *Phys. Rev.* (2) 136 (1964), B888-B892. (A. O. Barut) 29 #6859

(with O'Raifeartaigh, L.; Santhanam, T. S.) Origin of unitary symmetry and charge conservation in strong interactions. *Phys. Rev.* (2) 136 (1964), B1092-B1096. (O. W. Greenberg) 31 #5562

(with Mandel, L.; Wolf, E.) Theory of photoelectric detection of light fluctuations. *Proc. Phys. Soc.* 84 (1964), 435-444. (F. C. Auluck) 31 #4515

Question of combining internal symmetries and Lorentz group. *Coral Gables Conferences on Symmetry Principles at High Energy,* 1965, *pp.* 147-158. *Freeman, San Francisco,* 1965. (P. Roman) 31 #5548

Concerning space-time, symmetry groups, and charge conservation. *J. Mathematical Phys.* 6 (1965), 1329-1331. (W. D. McGlinn) 31 #6597

(with Mukunda, N.; O'Raifeartaigh, L.) Group theory of the Kepler problem. *Phys. Lett.* 19 (1965), 322-326. (D. Lurié) 32 #3654

(with Arons, M. E.; Han, M. Y.) Finite quantum electrodynamics: A field theory using an indefinite metric. *Phys. Rev.* (2) 137 (1965), B1085-B1104. (S. Aramaki) 32 #8783

(with Mehta, C. L.) Relation between quantum and semiclassical description of optical coherence. *Phys. Rev.* (2) 138 (1965), B274-B280. (J. R. Klauder) 33 #2301

(with Mukunda, N.; Macfarlane, A. J.) Representation mixing for SU_3 and G_2. *Phys. Rev.* (2) 138 (1965), B665-B666. (D. Lurié) 32 #3646

(with Pinski, G.; Macfarlane, A. J.) Shmushkevich's method for a charge-independent theory. *Phys. Rev.* (2) 140 (1965), B1045-B1053. (N. Mukunda) 33 #1060

(with Mahanthappa, K. T.) $SU(6)\otimes O(3)$ structure of strongly interacting particles. *Phys. Rev. Lett.* 14 (1965), 163-166. (Bunji Sakita) 32 #3643

(with Mahanthappa, K. T.) Lorentz-covariant SU(6), particle-antiparticle algebras, and supermultiplet structure. *Phys. Rev. Lett.* 14 (1965), 458-461. (Riazuddin) 31 #4457

(with Macfarlane, A. J.; O'Raifeartaigh, L.) Nucleon magnetic moments in covariant version of Wigner's supermultiplet theory. *Phys. Rev. Lett.* 14 (1965), 755-757. (A. O. Barut) 31 #5543

Equivalence of the current algebra and group-theoretic formulations in particle physics. *Phys. Rev. Lett.* 14 (1965), 1083-1085. (A. O. Barut) 32 #902

(with Mukunda, N.; O'Raifeartaigh, L.) Characteristic noninvariance groups of dynamical systems. *Phys. Rev. Lett.* 15 (1965), 1041-1044. (A. O. Barut) 32 #8853

(See also Conference on Symmetry Principles at High Energy, Coral Gables, 33 #7025)

(with Chand, P.; Mehta, C. L.; Mukunda, N.) Realization of Lie algebras by analytic functions of generators of a given Lie algebra. *J. Mathematical Phys.* 8 (1967), 2048-2059. (A. O. Barut) 36 #6550

(with Goldberg, J. N.; Macfarlane, A. J.; Newman, E. T.; Rohrlich, F.) Spin-*s* spherical harmonics and ð. *J. Mathematical Phys.* 8 (1967), 2155-2161. (Authors' summary) 39 #2429

* (with Klauder, John R.) Fundamentals of quantum optics. *W. A. Benjamin, Inc., New York-Amsterdam,* 1968. xi + 279 *pp.* (A. O. Barut) 37 #7144

(with Kuriyan, Jacob G.; Mukunda, N.) Master analytic representations and unified representation theory of certain orthogonal and pseudo-orthogonal groups. *Comm. Math. Phys.* 8 (1968), 204-227. (A. O. Barut) 37 #5008

(with Kuriyan, Jacob G.; Mukunda, N.) Master analytic representation: Reduction of O(2,1) in an O(1,1) basis. *J. Mathematical Phys.* 9 (1968), 2100-2108. (H. Ezawa) 39 #3769

Quantum theory of partial coherence. *J. Mathematical and Physical Sci.* 3 (1969), 121-175. (J. R. Klauder) 40 #8349

(with Mukunda, N.) Quantum theory of the infinite-component majorana field and the relation of spin and statistics. *Phys. Rev. D* (3) 1 (1970), 571-583. (R. L. Ingraham) 41 #4970

Sudbery, A.

(with Macfarlane, A. J.; Weisz, P.) Explicit representations of chiral invariant Lagrangian theories of hadron dynamics. *Proc. Roy. Soc. London Ser. A* 314 (1970), 217-250. (Gerald Rosen) 42 #7167

Sudbrock, Willi

Sylowfunktionen in endlichen Gruppen. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 158-184. (N. Ito) 34 #2687

Sudderth, William D.

On measurable, nonleavable gambling houses with a goal. *Ann. Math. Statist.* 40 (1969), 66-70. (L. J. Savage) 38 #6654

On the existence of good stationary strategies. *Trans. Amer. Math. Soc.* 135 (1969), 399-414. (J. Kiefer) 38 #1916

On measurable gambling problems. *Ann. Math. Statist.* 42 (1971), 260-269. (L. J. Savage) 43 #8116

Sudler, Culbreth, Jr.

Errata: "Two algebraic identities and the unboundedness of a restricted partition function". *Proc. Amer. Math. Soc.* 15 (1964), 1000. (Editors) 31 #146

An estimate for a restricted partition function. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 1-10. (N. J. Fine) 29 #1189

A direct proof of two theorems on two-line partitions. *Proc. Amer. Math. Soc.* 16 (1965), 161-168. (B. Gordon) 31 #74

Two enumerative proofs of an identity of Jacobi. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 67-71. (J. B. Roberts) 33 #5593

Sudo, Masaki

(with Kaneyuki, Soji) On Šilov boundaries of Siegel domains. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 131-146. (A. Korányi) 38 #2341

On non-homogeneous Siegel domains. *J. Fac. Sci. Univ. Tokyo Sect. IA Math.* 17 (1970), 463-466. (A. Korányi) 44 #467

Sūdžiūtė, D.

(with Vilkas, E.) Classical approximation methods in the theory of games. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 6 (1966), 217-225. (M. Iosifescu) 35 #1361

The form of the spectra of the equilibrium strategies of certain nonantagonistic two-person games on the unit square. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 687-694. (R. Theodorescu) 41 #6582

The existence and form of equilibrium strategies of certain nonantagonistic two-person games with a choice of the moment of time. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 375-389. (L. Bernstein) 44 #1447

Sudžjute, D. P. See Sūdžiūtė, D.

Sudzuki, M. See Suzuki, Michio.

Suetin, Ju. K.

Constants of convergence and uniqueness for certain interpolation problems. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 1228-1231. (H. S. Wilf) 30 #5100

On the constants of convergence and uniqueness for certain interpolation problems. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 142-160. (E. J. Akutowicz) 30 #3333

Coincidence of constants of uniqueness and convergence in certain interpolation problems. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 5, 16-25. (Carl de Boor) 34 #4758

Uniqueness theorems and representations of analytic functions. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 228-231. (G. Lunc (RŽMat 1969 #6 B165)) 43 #3431

Suetin, P. K.

Application of Faber's polynomials to the interpolation of analytic functions. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 277-279. *Fizmatgiz, Moscow,* 1961. (E. J. Akutowicz) 32 #6109

Certain properties of polynomials orthogonal on a contour. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 106-110. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (I. M. Sheffer) 33 #7782

On the representation of continuous and differentiable functions by Fourier series in Legendre polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1275-1277. (E. Kogbetliantz) 29 #5050

The basic properties of Faber polynomials. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 125-154. (K. Bögel) 29 #6029

Certain asymptotic properties of orthogonal polynomials in the complex plane. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 285-288. (A. Peyerimhoff) 33 #5908

Asymptotic properties of polynomials orthogonal on a contour. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 274-277. *Izdat. "Nauka", Moscow,* 1966. (S. Verblunsky) 34 #4510

Fundamental properties of polynomials orthogonal on a contour. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 2 (128), 41-88. (I. M. Sheffer) 33 #6270

Some estimates of polynomials, orthogonal on a contour, with peculiarities of weight and contour. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1070-1078. (S. Verblunsky) 36 #3050

Order comparison of various norms of polynomials in a complex region. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5 (1966), *tetrad'* 4, 91-100 (1967). (J. Fuka) 37 #2957

Certain properties of polynomials which are orthogonal on a segment. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 653-670. (R. R. Goldberg) 39 #4585

Suffel, C. L.

On the triangular form of a linear transformation. *Amer. Math. Monthly* 74 (1967), 1236-1237. 36 #3801

Suffridge, Ted J.

Convolutions of convex functions. *J. Math. Mech.* 15 (1966), 795-804. (J. G. Krzyż) 33 #5871

On univalent polynomials. *J. London Math. Soc.* 44 (1969), 496-504. (I. Kra) 38 #3419

A coefficient problem for a class of univalent functions. *Michigan Math. J.* 16 (1969), 33-42. (A. W. Goodman) 39 #1646

On the kernel function for the intersection of two simply connected domains. *Proc. Amer. Math. Soc.* 22 (1969), 37-41. (J. L. Kazdan) 39 #7121

Some remarks on convex maps of the unit disk. *Duke Math. J.* 37 (1970), 775-777. (D. K. Thomas) 42 #4722

The principle of subordination applied to functions of several variables. *Pacific J. Math.* 33 (1970), 241-248. (M. S. Robertson) 41 #5660

A holomorphic function having a discontinuous inverse. *Proc. Amer. Math. Soc.* 31 (1972), 629-630. (Soo Bong Chae) 44 #2037

Sufiev, T. S.

The solution by the Fourier integral method of the Cauchy problem for a system of multidimensional Lamé equations with dispersion in the presence of a velocity spectrum. (Russian) *Akad. Nauk Uzbek. SSR Trudy Inst. Mat. No.* 26 (1962), 175-193. (Editors) 41 #661

The solution by the method of means of the Cauchy problem for a system of multidimensional Lamé equations with dispersion in the presence of a velocity spectrum. (Russian) *Akad. Nauk Uzbek. SSR Trudy Inst. Mat. No.* 26 (1962), 195-215. (Editors) 41 #662

Solution of the Cauchy problem for a multidimensional Lamé system by the method of the Fourier integral. (Russian) *Studies in Differential Equations (Russian), pp.* 160-175. *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1963. (H. H. Wicke) 33 #7716a

The solution of a Cauchy problem for a system of multidimensional Lamé equations in the presence of the spectrum of velocities by the Fourier integral method. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 19 (1964), 190-205. (V. Babič (RŽMat 1965 6 B358)) 33 #6173

Solution of the Cauchy problem for a system of multidimensional equations of the Lamé type by the Fourier integral method. (Russian) *Fergan. Gos. Ped. Inst. Učen. Zap. Ser. Mat. Vyp.* 1 (1965), 41-47. (H. H. Wicke) 33 #7716b

Sugano, Kozo

(with Hirata, Kazuhiko) On semisimple extensions and separable extensions over non commutative rings. *J. Math. Soc. Japan* 18 (1966), 360-373. (A. K. Bousfield) 34 #208

A note on Azumaya's theorem. *Osaka J. Math.* 4 (1967), 157-160. (Robert Gilmer) 36 #1476 (E)

Note on semisimple extensions and separable extensions. *Osaka J. Math.* 4 (1967), 265-270. (H. J. Weinert) 37 #1412

Correction to: "A note on Azumaya's theorem". *Osaka J. Math.* 5 (1968), 153. (Editors) 38 #1125

Supplementary results on cogenerators. *Osaka J. Math.* 6 (1969), 235-241. (P. D. Chawathé) 42 #316

On centralizers in separable extensions. *Osaka J. Math.* 7 (1970), 29-40. (B. J. Müller) 42 #6048

Separable extensions and Frobenius extensions. *Osaka J. Math.* 7 (1970), 291-299. (A. K. Bousfield) 44 #6765

Sugano, Satoru

(with Washimiya, Shûkô; Shinagawa, Kohsei) Effective Hamiltonian for non-Kramers doublets. *Phys. Rev. B* (3) 1 (1970), 2976-2985. (Gerald Rosen) 41 #4936

Sugar, R.

(with Blankenbecler, R.) Variational upper and lower bounds for multichannel scattering. *Phys. Rev.* (2) 136 (1964), B472-B491. (H. Ekstein) 34 #5420

(with Mitra, A. N.; Gillespie, J.; Panchapakesan, Nargis) Faddeev formalism for four-particle systems. *Phys. Rev.* (2) 140 (1965), B1336-B1338. (H. Miyazawa) 33 #2159

(with Blankenbecler, R.) Linear integral equations for relativistic multichannel scattering. *Phys. Rev.* (2) 142 (1966), 1051-1059. (D. I. Olive) 33 #8167

Sugata, Kazuhiro

(with Sakai, Toshiyuki) An analysis of threshold-element networks. *Electron. Commun. Japan* 51 (1968), *no.* 5, 103-111. (C. L. Sheng) 41 #1441

Sugawara, Hirotaka

(with Miyazawa, Hironari) Bound state problem and the determination of coupling constants. *Progr. Theoret. Phys.* 29 (1963), 735-743. (PA 66 #19551) 32 #3545

Three body problem and a model of baryons. *J. Phys. Soc. Japan* 19 (1964), 1511-1513. (K. Nishijima) 31 #5563

(with Tanabe, Kosai) G-parity and unitary symmetry. *Progr. Theoret. Phys.* 32 (1964), 911-921. (S. P. Rosen) 31 #5565

Application of current commutation rules to nonleptonic decay of hyperons. *Phys. Rev. Lett.* 15 (1965), 870-873; *erratum, ibid.* 15 (1965), 997. (K. Kawarabayashi) 32 #3589

(with Arafune, Jiro) Breakdown of the Pomeranchuk theorem and the behavior of the leading J-plane singularity. *Phys. Rev. Lett.* 25 (1970), 1516-1518. (K. Kawarabayashi) 44 #7859

Sugawara, Masahiro

Order of the identity class of a loop space. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 131-136. (S.-T. Hu) 34 #6773

Introduction to H-spaces. (Japanese) *Sûgaku* 20 (1968), 202-211. (M. Mimura) 40 #3545

Sugawara, Masao

Resonance and high-energy limit of scattering. *Phys. Rev. Lett.* 14 (1965), 336-339. (S. Deser) 31 #1031

Sugawara, S.

(with Takahashi, M.) On some queues occurring in an integrated iron and steel works. *J. Operations Res. Soc. Japan* 8 (1965), 16-23. (D. V. Lindley) 33 #8049

Sugawara, Tamio

(with Toda, Hirosi) Squaring operations on truncated polynomial algebras. *Japan. J. Math.* 38 (1969), 39-50. (W. D. Barcus) 41 #4530

Sugibayashi, Masutaro

(with Shimizu, Tatsujiro) Computer-programming for problem-solving of verbal problems in arithmetic and algebra. *Math. Japon.* 8 (1963), 47-57. (A. D. Booth) 29 #1772

Sugihara, Ryo

(with Imamura, Tsutomu; Taniuti, Tosiya) An asymptotic method for the Vlasov equation. *J. Phys. Soc. Japan* 27 (1969), 1623-1630. (Authors' summary) 40 #6905

Sugihara, Takeo

The number of modalities in T supplemented by the axiom CL^2pL^3p. *J. Symbolic Logic* 27 (1962), 407-408. (E. J. Lemmon) 31 #45

Sugimoto, Daiichiro

On the numerical stability of computations of stellar evolution. *Astrophys. J.* 159 (1970), 619-627. (W. H. Julian) 44 #6304

Sugimoto, Midori

On Riemannian manifolds with a certain closed geodesic. *Tôhoku Math. J.* (2) 22 (1970), 56-64. (W. Klingenberg) 41 #7577

(with Shiohama, K.) On the differentiable pinching problem. Improved by H. Karcher. *Math. Ann.* 195 (1971), 1-16. (W. Klingenberg) 44 #7475

Sugimura, Masahiko

Optimum designs for selecting one of two treatments, fixed sample size plan and sequential plan in a population with one parameter exponential distribution. *Bull. Math. Statist.* 13 (1968), *no.* 1-2, 1-23. (G. Elfving) 39 #1058

Sugino, Kazue

(with Inagaki, Yasuyoshi; Fukumura, Teruo) An analysis of the probabilistic automaton by its state characteristic equation. *Electron. Commun. Japan* 51 (1968), *no.* 1, 129-136. (A. J. Lohwater) 43 #7272

Sugita, Kimio

(with Sugiura, Mitsuo) On a certain type of duality theorem. *Sci. Papers College Gen. Ed. Univ. Tokyo* 18 (1968), 115-124. (A. Kleppner) 39 #4316

Sugiura, Ichiro

(with Suzuki, Masayuki) On the performance index variation due to large change of plant parameters in optimal control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 421-432. (Authors' summary) 42 #4277

A process of optimum-design of automatic control system by considering sensitivity. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 179-190. (Editors) 42 #4278

(with Suzuki, Masayuki) On parameter sensitivity and local invariance. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 201-207. (Authors' summary) 42 #4246

(with Suzuki, Masayuki) A condition for closed-loop control configuration of certain non-linear systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 307-312. (Authors' summary) 42 #4279

(with Matsubara, Noriyuki) On parameter invariance for the linear regulator system. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 799-807. (Authors' summary) 42 #4261

Sugiura, Mitsuo

(with Iwahori, Nagayoshi) A duality theorem for homogeneous manifolds of compact Lie groups. *Osaka J. Math.* 3 (1966), 139-153. (Y. Matsushima) 37 #4202

Some remarks on duality theorems of Lie groups. *Proc. Japan Acad.* 43 (1967), 927-931. (H. Chu) 40 #5783

(with Sugita, Kimio) On a certain type of duality theorem. *Sci. Papers College Gen. Ed. Univ. Tokyo* 18 (1968), 115-124. (A. Kleppner) 39 #4316

The unitary representations of complex semi-simple Lie groups. (Japanese) *Sûgaku* 19 (1968), 214-218. (T. Ono) 44 #370

Correction to my paper: "Conjugate classes of Cartan subalgebras in real semisimple Lie algebras". *J. Math. Soc. Japan* 23 (1971), 379-383. (B. Kolman) 44 #1772

Sugiura, Nariaki

The bivariate orthogonal inverse expansion and the moments of order statistics. *Osaka J. Math.* 1 (1964), 45-59. (R. L. Plackett) 29 #6589

A generalization of the Wilcoxon test for censored data. II. Several-sample problem. *Osaka J. Math.* 1 (1964), 165-174. (M. Dwass) 30 #2625

An example of the two-sided Wilcoxon test which is not unbiased. *Ann. Inst. Statist. Math.* 17 (1965), 261-263. (I. R. Savage) 32 #1833

Correction to: "On a generalization of the Wilcoxon test for censored data". *Osaka J. Math.* 2 (1965), 283. (Editors) 31 #5293

Multisample and multivariate nonparametric tests based on U statistics and their asymptotic efficiencies. *Osaka J. Math.* 2 (1965), 385-426. (C. G. Khatri) 33 #832

(with Ôtake, Masanori) Numerical comparison of improved methods of testing in contingency tables with small frequencies. *Ann. Inst. Statist. Math.* 20 (1968), 505-517. 38 #3992

(with Nagao, Hisao) Unbiasedness of some test criteria for the equality of one or two covariance matrices. *Ann. Math. Statist.* 39 (1968), 1686-1692. (K. C. S. Pillai) 38 #5326

(with Fujikoshi, Yasunori) Asymptotic expansions of the non-null distributions of the likelihood ratio criteria for multivariate linear hypothesis and independence. *Ann. Math. Statist.* 40 (1969), 942-952. (H. Chernoff) 40 #3640

(with Nagao, Hisao) On Bartlett's test and Lehmann's test for homogeneity of variances. *Ann. Math. Statist.* 40 (1969), 2018-2032. (V. Kurotschka) 41 #4725

Asymptotic expansions of the likelihood ratio criteria for covariance matrix. *Ann. Math. Statist.* 40 (1969), 2051-2063. (Richard A. Johnson) 40 #8161

Sugiyama, Hiroshi

(with Kusano, Shinako; Tasaka, Masao) Some additional aspects of the Robbins-Monro stochastic approximation process for the multiple roots searching. *Tech. Rep. Osaka Univ.* 18 (1968), 1-13. (J. Wolfowitz) 38 #825

(with Uosaki, Katsuji) On an application of the stochastic approximation process to the control system with a time-varying parameter. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 529-536. (Authors' summary) 42 #5690

Sugiyama, Kazuo

On a method of vertex coloration in four colors. (Japanese. English summary) *Sci. Rep. Fac. Ed. Gifu Univ. Natur.. Sci.* 4 (1967), 8-12. (K. Yamamoto) 43 #4723

Sugiyama, Shohei

Applications of fixed point theorems to the existence problems in the theory of difference-differential equations. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 27 (1963), 93-101. (G. S. Jones) 30 #2208

On the theory of difference-differential equations. I, II. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 26 (1964), 97-111; *ibid. No.* 27 (1964), 74-84. (K. L. Cooke) 31 #462

On the theory of difference-differential equations. III. Applications of Lyapunov function. *Mem. School Sci. Engrg. Waseda Univ. No.* 28 (1964), 73-85. (J. Kato) 42 #4847

On a certain functional-differential inequality. *Kōdai Math. Sem. Rep.* 17 (1965), 273-280. (V. Lakshmikantham) 32 #4354

On functional-differential equations and inequalities. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 29 (1965), 109-114. (M. N. Oğuztöreli) 34 #6265

On a certain functional-differential equation. *Proc. Japan Acad.* 41 (1965), 360-362. (W. A. Coppel) 32 #261

On some problems of functional-differential equations with advanced argument. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn.,* 1967*), pp.* 367-382. *Benjamin, New York,* 1967. (M. N. Oğuztöreli) 36 #5472

On the stability problems of difference equations. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 45 (1969), 140-144. (I. Fenyő) 40 #7661

Stability and boundedness problems on difference and functional-differential equations. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 33 (1969), 79-88. (N. P. Bhatia) 42 #3385

Stability problems on difference and functional-differential equations. *Proc. Japan Acad.* 45 (1969), 526-529. (N. P. Bhatia) 41 #3943

Comparison theorems on difference equations. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 47 (1970), 77-82. (S. M. Shah) 42 #3455

Sugiyama, Takakazu

On the distribution of the latent vectors for principal component analysis. *Ann. Math. Statist.* 36 (1965), 1875-1876. (D. A. Sprott) 32 #557

On the distribution of the largest latent root and the corresponding latent vector for principal component analysis. *Ann. Math. Statist.* 37 (1966), 995-1001. (I. Olkin) 34 #897

On the distribution of the largest latent root of the covariance matrix. *Ann. Math. Statist.* 38 (1967), 1148-1151. (K. C. S. Pillai) 35 #7498

Distribution of the largest latent root and the smallest latent root of the generalized B statistic and F statistic in multivariate analysis. *Ann. Math. Statist.* 38 (1967), 1152-1159. (K. C. S. Pillai) 35 #7499

(with Fukutomi, Kazuo) On the distributions of the extreme characteristic roots of the matrices in multivariate analysis. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 14 (1967), *no.* 4, 8-12. 40 #5070

(with Pillai, K. C. S.) Non-central distributions of the largest latent roots of three matrices in multivariate analysis. *Ann. Inst. Statist. Math.* 21 (1969), 321-327. 39 #7739

Joint distribution of the extreme roots of a covariance matrix. *Ann. Math. Statist.* 41 (1970), 655-657. 40 #6689

Šugrin, S. M.

Behaviour of a difference scheme for equations of shallow water. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.*, 345-352. (J. N. Newman) 30 #2779

On a system of linear hyperbolic equations defined on a complex. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 368-374. (P. Ungar) 34 #1705

Difference schemes for symmetric differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 311-313. (P. Ungar) 37 #4969

Symmetric differential equations. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 426-442. (G. Geymonat) 39 #5930

The numerical calculation of the nonstationary motion of water in systems of river beds or canals. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1969, *no.* 3, 25-31. (N. Cristescu) 41 #1288

A certain iterational method. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 684-689. (Bl. Sendov) 44 #1205

Suguri, Tsuneo

(with Nakayama, Shigeru) Some notes on almost Hermitian manifolds. *Kōdai Math. Sem. Rep.* 17 (1965), 85-92. (Y. Tashiro) 31 #2698

Šuh, L. O.

The discrete spectrum of perturbed differential operators. (Russian) *Abstracts of papers of the XXII Sci. Conf.: Sect. Phys. Math. Sci. (Russian), pp.* 145-149. *Černovic. Gos. Univ., Černovcy,* 1966. (C. Clark) 36 #5767

Suh, M. W.

(with Bhattacharyya, B. B.; Grandage, A.) On the distribution and moments of the strength of a bundle of filaments. *J. Appl. Probability* 7 (1970), 712-720. (Authors' summary) 44 #1138

Suh, S. L.

(with Cohen, Harley) Wave propagation in elastic surfaces. *J. Math. Mech.* 19 (1969/70), 1117-1129. (N. Coburn) 41 #4898

Suh, Tae-il

Equationally complete non-associative algebras. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 321-324. (A. Yaqub) 37 #2821

Algebras formed by the Zorn vector matrix. *Pacific J. Math.* 30 (1969), 255-258. (H. P. Allen) 40 #4325

Suhadolc, Anton

Theory of measure. (Slovenian) *Obzornik Mat. Fiz.* 10 (1963), 1-5. (Editors) 34 #4442

Cauchy's method of solution of algebraic equations. (Slovenian) *Obzornik Mat. Fiz.* 11 (1964), 48-61. (Editors) 34 #8639

Formulas for the n^{th} prime number. (Slovenian) *Obzornik Mat. Fiz.* 12 (1965), 71-72. (T. T. Tonkov) 34 #7442

(with Vrabec, J.) A generalization of Fourier and Laplace integrals. (Slovenian) *Obzornik Mat. Fiz.* 14 (1967), 104-106. (Editors) 38 #4914

(with Vrabec, J.) Eine Erweiterung der Fourier- und Laplace-Transformation. *Math. Z.* 103 (1968), 55-60. (P. G. Rooney) 36 #5610

(with Vrabec, J.) The numerical solution of Fredholm integral equations of the first kind. (Slovenian) *Obzornik Mat. Fiz.* 15 (1968), 106-115. (Editors) 42 #1367

(with Vrabec, J.) Eine Erweiterung der Fourier- und Laplace-Transformation. II. *J. Reine Angew. Math.* 237 (1969), 97-108. (P. G. Rooney) 40 #7717

Tamarkin-Smulyan theorem for strictly singular analytic operator valued functions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 277-280. (J. B. Miller) 43 #5343

The asymptotic estimation of integrals. (Slovenian. English summary) *Obzornik Mat. Fiz.* 17 (1970), 59-62. (From the author's summary) 42 #747

Improperly posed problems. (Slovenian. English summary) *Obzornik Mat. Fiz.* 17 (1970), 109-114. (Author's summary) 42 #6438

Linearized Boltzmann equation in L^1 space. *J. Math. Anal. Appl.* 35 (1971), 1-13. (P. Nelson) 44 #3635

Suhanov, A. D.

The connection between operators in the Heisenberg and interaction representations in local quantum field theory. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1303-1314 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 881-889. (J. M. Jauch) 32 #5134 (with Medvedev, B. V.) The *S* matrix in the Heisenberg representation. *Dokl. Akad. Nauk SSSR* 165 (1965), 305-308 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 1061-1063. (F. Rohrlich) 33 #2205

The renormalized field operator in the Heisenberg picture. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 538-547 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 357-363. (H. Umezawa) 32 #834

The problems of "dressing" of operators and of the unitarity of the renormalized *S*-matrix in axiomatic field theory. *Jadernaja Fiz.* 9 (1969), 653-664 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 377-383. (K. Chadan) 41 #7978

(with Medvedev, B. V.; Pavlov, V. P.) Spectral representations in a renormalizable theory of massive vector field. *Ž. Èksper. Teoret. Fiz.* 57 (1969), 1998-2009 *(Russian. English summary); translated as Soviet Physics JETP* 30 (1970), 1083-1088. (R. Høegh-Krohn) 42 #7196

Suharevskiĭ, I. V.

(with Tkačenko, V. A.) The asymptotic solution of the problem of the torsion of thin-shelled cylinders. (Russian) *Zap. Meh.-Mat. Fzi. i Har'kov. Mat. Obšč.* (4) 28 (1961), 163-172. (K. Soljanik-Krassa (RŽMat 1963 #4 B305)) 40 #3767

(with Fel'd, Ja. N.) Reduction of problems of diffraction on non-closed surfaces to integral equations of the second kind. (Russian) *Radiotehn. i Èlektron.* 11 (1966), 1159-1168. (J. Ignaczak) 33 #5226

Suhiašvili, T. N.

A method of determining the parity of a number in a system of residual classes. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 59 (1970), 553-556. (J. Morávek) 44 #3476

Suhinin, M. F.

Two versions of a theorem on the differentiation of the inverse function in certain linear topological spaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 6, 34-48. (E. Asplund) 44 #5776a

The local invertibility of a differentiable mapping. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 5 (155), 249-250. (E. Asplund) 44 #5776b

Suhl, Harry

(See Magnetism, 31 #3178)

Dispersion theory of the Kondo effect. *Phys. Rev.* (2) 138 (1965), A515-A523. (W. Franzen) 32 #2156

Inertial mass of a moving fluxoid. *Phys. Rev. Lett.* 14 (1965), 226-229. (M. J. Stephen) 32 #7158

Šuhman, V. N.

The Cauchy problem for not strictly hyperbolic equations. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 551-553. (J. Vencko) 42 #4874

Suhorutčenko, V. V.

(with Agranovič, M. S.) The necessity of the algebraic parabolicity conditions of nonstationary problems. (Russian) *Mat. Zametki* 2 (1967), 615-625. (R. Guenther) 37 #3181

Suhov, Ju. M.

Existence and regularity of the Gibbs limit state for one-dimensional continuous systems of quantum statistical mechanics. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1042-1045. (H. S. Green) 43 #1580

Limiting density matrices for one-dimensional continuous systems of quantum statistical mechanics. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 491-512. (A. A. Maradudin) 42 #8849

A one-parameter semigroup of operators that is generated by the Gibbs distribution. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 199-200. (A. B. Buche) 41 #7480

An application of the matrix method to continuous systems of classical statistical mechanics. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 277-278. (L. Finkelstein) 41 #6292

Şuhubi, Erdoğan

On bending of rectangular plates of varying thickness. (Turkish summary) *İstanbul Tek. Üniv. Bül.* 16 (1963), 1-6. (Author's summary) 29 #3045

(with Eringen, A. Cemal) Nonlinear theory of simple micro-elastic solids. I. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 189-203. (R. A. Toupin) 29 #6672

(with Eringen, A. Cemal) Nonlinear theory of micro-elastic solids. II. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 389-404. (G. Capriz) 30 #751

Small torsional oscillations of a circular cylinder with finite electric conductivity in a constatn axial magnetic field. (German, French, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964/65), 441-459. (PA 68 #30878) 32 #3445

Small longitudinal vibration of an initially stretched circular cylinder. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964/65), 509-517. (R. L. Fosdick) 31 #930

Longitudinal vibrations of a circular cylinder coupled with a thermal field. *J. Mech. Phys. Solids* 12 (1964), 69-75. (R. Muki) 29 #826

Şuhubi, S. E.

On a simple solution of the general multigroup neutron diffusion equations. (Turkish summary) *İstanbul Tek. Üniv. Bül.* 16 (1963), 67-75. (Author's summary) 29 #1978

Suiseth, Richard

(See Molland, Andrew George, 44 #2549)

Suita, Nobuyuki

On the coefficient theorem of Jenkins. (Japanese) *Sûgaku* 14 (1962/63), 129-137. (Y. Kusunoki) 29 #236

(with Oikawa, Kôtaro) On parallel slit mappings. *Kōdai Math. Sem. Rep.* 16 (1964), 249-254. (B. Rodin) 30 #1237

Minimal slit domains and minimal sets. *Kōdai Math. Sem. Rep.* 17 (1965), 166-186. (E. Reich) 32 #4258

On radial slit disc mappings. *Kōdai Math. Sem. Rep.* 18 (1966), 219-228. (E. Reich) 35 #356

On a continuity lemma of extremal length and its applications to conformal mapping. *Kōdai Math. Sem. Rep.* 19 (1967), 129-137. (E. Reich) 36 #2788

On slit rectangle mappings and continuity of extremal length. *Kōdai Math. Sem. Rep.* 19 (1967), 425-438. (H. Renggli) 38 #1241

(with Oikawa, Kôtaro) Circular slit disk with infinite radius. *Nagoya Math. J.* 30 (1967), 57-70. (D. Gaier) 35 #5594

On circular and radial slit disc mappings. *Kōdai Math. Sem. Rep.* 20 (1968), 127-145. (K. Strebel) 38 #3416

Capacitability and extremal radius. *Kōdai Math. Sem. Rep.* 20 (1968), 442-447. (W. H. Ow) 39 #2962

A note on function-theoretic null-sets of class $N_{\mathfrak{S}\mathfrak{D}}$. *Proc. Japan Acad.* 44 (1968), *no.* 1, *suppl. to* 43 (1967), *no.* 10, 1013-1015. (K. Noshiro) 39 #429

On continuity of extremal distance and its applications to conformal mappings. *Kōdai Math. Sem. Rep.* 21 (1969), 236-251. (H. Renggli) 41 #3734

Carathéodory's theorem on boundary elements of an arbitrary plane region. *Kōdai Math. Sem. Rep.* 21 (1969), 413-417. (E. Reich) 42 #7875

(with Oikawa, Kôtaro) On conformal mappings onto incised radial slit disks. *Kōdai Math. Sem. Rep.* 22 (1970), 45-52. (E. Netanyahu) 44 #1798

Sujaršaev, A. M.

Necessary and sufficient conditions for oscillations of nonconservative systems with one degree of freedom. (Russian) *Trudy Samarkand. Gos. Univ. (N.S.) Vyp.* 107 (1960), 59-69 (1961). (A. F. Andreev (RŽMat 1962 #7 B214)) 40 #4541

On the problem of the generalized Frommer method. (Russian) *Trudy Samarkand. Gos. Univ. (N.S.) Vyp.* 107 (1960), 71-77 (1961). (È. Grudo (RŽMat 1963 #6 B190)) 40 #5966

Šukaĭlo, V. F.

Certain general mathematical questions of reliability theory and demographic statistics. (Russian) *Èkonom. i Mat. Metody* 3 (1967), 560-569. (I. Kovalenko (RŽMat 1968 #12 V183)) 42 #7017

On the theory of forecasting demo-economic movements. (Russian) *Èkonom. i Mat. Metody* 6 (1970), 377-392. (H. Toutenburg) 43 #8343

Sukennik, A. A.

An application of the method of power series to the solution of a boundary value problem for a system of differential equations woth parameters. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 832-835. 39 #1730

(with Martinjuk, A. A.) A new method of construction and certain properties of approximate solutions of essentially nonlinear countable systems. (Russian) *Certain Problems of Applied Mathematics, No.* 4 *(Russian), pp.* 154-167. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (M. Bertolino) 41 #7244

An application of the method of power series to the solution of a two-point boundary value problem for a finite system of nonlinear differential equations with parameters. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 992-995, 1052-1053. 42 #3346

(with Martinjuk, A. A.) The construction of approximate solutions of countable systems, and their stability. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 706-711. (Z. Nehari) 40 #5992

(with Martinjuk, A. A.) A certain method of solution of a point boundary value problem for a countable system of differential equations with parameters. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 17-20, 92. (V. Komkov) 42 #8038

Sukhanov, A. D. See Suhanov, A. D.

Sukharevskii, I. V. See Suharevskiĭ, I. V.

Sukharevsky, I. V. See Suharevskiĭ.

Sukhatme, Balkrishna V.

(with Avadhani, M. S.) Controlled selection: A technique in random sampling. *Ann. Inst. Statist. Math.* 17 (1965), 15-28. (S. Addelman) 30 #5453

(with Avadhani, M. S.) Controlled sampling with varying probabilities with and without replacement. *Austral. J. Statist.* 9 (1967), 8-15. (J. N. K. Rao) 35 #7547

(with Avadhani, M. S.) Simplified procedures for designing controlled simple random sampling. *Austral. J. Statist.* 10 (1968), 1-7. (K. R. Shah) 38 #3990 (with Singh, Ravindra) Optimum stratification. *Ann. Inst. Statist. Math.* 21 (1969), 515-528. (Author's summary) 41 #2869

Sukhatme, Pandurang V.

Major developments in sampling theory and practice. *Research Papers in Statistics (Festschrift J. Neyman), pp.* 367-409. *John Wiley, London,* 1966. 34 #8595

Sukhatme, Shashikala

Some non-parametric tests for location and scale parameters in a mixed model of discrete and continuous variables. *J. Indian Soc. Agric. Statist.* 14 (1962), 121-137. (J. Hájek) 29 #5351

Suk Koh, Yoon. See Yoon Suk Koh.

Sukonkin, V. I.

An example in the theory of sets. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1435. (M. Novotný) 34 #5687

Šukurjan, Ju. G.

Optimization of cycle-free automata with a terminal state. *Kibernetika (Kiev)* 1967, *no.* 2, 27-35 *(Russian); translated as Cybernetics* 3 (1967), *no.* 2, 21-26. 42 #1608

The synthesis of an optimal control automaton in an equivalence class with respect to the composition of a free and a finite automaton. (Russian) *Automata Theory and Methods of Formalized Synthesis of Computers and Systems (Proc. Seminar, Kiev,* 1968*), No.* 5 *(Russian), pp.* 10-32. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. (Editors) 39 #6693

Šukurov, S.

Characteristic vibrations of conical shells which are almost cylindrical. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 18-21. *Izdat. "Nauk" Kazah. SSR, Alma-Ata,* 1969. (B. A. Bondarenko) 39 #7863

Vibrations of shells in the form of an elliptic cylinder which is nearly circular. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 125-130. *Izdat. "Nauk" Kazah. SSR, Alma-Ata,* 1969. (B. A. Bondarenko) 39 #7864

Sulaĭmanov, K.

Asymptotic estimates of the solutions of nonlinear singularly perturbed hereditary boundary value problems. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No.* 6 *(Russian), pp.* 271-289. *Izdat. "Ilim", Frunze,* 1969. (S. Fučík) 43 #6681

(with Imanaliev, M.) Boundary value problems for systems of integro-differential equations with initial jump. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No.* 6 *(Russian), pp.* 45-67. *Izdat. "Ilim", Frunze,* 1969. (M. Tvrdý) 44 #3097

Sulakvelidze, A. K.

On a certain class of linear differential equations. (Georgian. Russian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 110 (1965), 281-285. 33 #5988

Generalized divided differences. (Georgian. Russian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 117 (1966), 209-216. (Author's summary) 35 #312

Sulanke, Rolf

(with Rényi, A.) Über die konvexe Hülle von *n* zufällig gewählten Punkten. II. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 138-147 (1964). (S. J. Taylor) 29 #6392

Schnittpunkte zufälliger Geraden. *Arch. Math.* 16 (1965), 320-324. (L. A. Santaló) 32 #3089

Integralgeometrie ebener Kurvennetze. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 233-261. (J. E. Brothers) 34 #5041

Croftonsche Formeln in Kleinschen Räumen. *Math. Nachr.* 32 (1966), 217-241. (G. Vranceanu) 34 #8310

Croftonsche Formeln für Strahlensysteme des euklidischen Raumes. *Math. Nachr.* 38 (1968), 299-307. (C.-C. Hsiung) 39 #6233

(with Rényi, A.) Zufällige konvexe Polygone in einem Ringgebiet. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 146-157. (J. G. Wendel) 37 #4846

Strahlensysteme im *n*-dimensionalen euklidischen Raum. *Math. Nachr.* 43 (1970), 25-45. (P. Scherk) 42 #974

Sulaxana Kumari. See Kumari, Sulaxana.

Šul′c, M. M.

On a certain problem of choice. (Russian. English summary) *Kibernetika (Kiev)* 1966, *no.* 1, 30-33. (Author's summary) 33 #7208

Sul′din, A. V.

Wiener measure and its applications to approximation methods. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1960, *no.* 5 (18), 165-179. (H. J. Stetter (Zbl 107, 50)) 29 #1482

(with Grigor′ev, S. V.) On a class of transformation groups conserving Wiener's measure. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 75-77. *Izdat. Kazan. Univ., Kazan,* 1963. (I. Csiszár) 32 #6563

On the representation of solutions of integral equations by means of integrals with respect to Gaussian measure. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 77-79. *Izdat. Kazan. Univ., Kazan,* 1963. (I. Csiszár) 32 #6168

On the distribution of the functional $\int_0^1 x^2(t)dt$ where $x(t)$ represents a certain Gaussian process. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 80-82. *Izdat. Kazan. Univ., Kazan,* 1963. (K. Balagangadharan) 32 #6518

Generalization of one of Kac's results. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 83-85. *Izdat. Kazan. Univ., Kazan,* 1963. (K. Balagangadharan) 32 #6562

The solution of equations by the method of conditional mean values. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 85-87. *Izdat. Kazan. Univ., Kazan,* 1963. (K. Balagangadharan) 32 #4733

The method of regression in the theory of approximation. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 6, 3-35. (S. Kullback) 32 #1824

Cubature formulas based on the ergodic theorem. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 6, 85-89 (1966). (A. H. Stroud) 37 #3766

Suleĭmanov, D. N.

Solution of a mixed problem by the Fourier method for generalized systems of telegraph equations with a nonlinear term. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1965, *no.* 2, 3-13. (R. N. Goss) 35 #3233

Suleĭmanov, N. M.

Some properties of generalized functions of a speical type with values in Hilbert spaces. (Russian) *Studies in Theory of Differential Equations and Theory of Functions (Russian), pp.* 135-151. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (Miloš Dostál) 33 #6372

Correct formulation of boundary value problems in a half-space for a differential operator equation with a right member. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1966, *no.* 3, 3-9. (Alois Kufner) 34 #6304

Suleĭmanov, R. V.

Solution of the Fredholm integral equation of the first kind by the method of moments. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), 49-65. (J. M. Ortega) 33 #1988

The method of successive approximations for obtaining the solution of the Fredholm integral equation of the first kind. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), 67-78. (J. M. Ortega) 33 #1989

Regularization of a Fredholm integral equation of the first kind in the L_2-space. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 77-78. 33 #4627

Analysis of the condition of the matrix of a system of linear algebraic equations corresponding to a Fredholm integral equation of the first kind, regularized in L_2. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 79-82. (H. J. Stetter) 34 #2222

Solution by the method of successive approximations of the Fredholm integral equation of the first kind, regularized in L_2. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5 (1966), *tetrad′* 4, 101-104 (1967). (H. J. Stetter) 35 #3387

The method of successive approximations for finding the eigenvalues of a kernel $\mathscr{K}(x,y)$. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5 (1966), *tetrad′* 4, 105-115 (1967). (E. L. Albasiny) 35 #2514

Suleĭmanova, H. R.

The question of a necessary and sufficient condition for the existence of a stochastic matrix with prescribed characteristic numbers. (Russian) *Trudy Vsesojuz. Zaočn. Ėnerget. Inst. Vyp.* 28 (1965), 33-49. (D. Ž. Djoković) 38 #4502

Suleĭmenov, Ž.

The eigenvalues of systems of linear differential equations with coefficients whcih are functions of weak variation. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 1, 32-35. (L. Janos) 38 #6171

A certain theorem on the existence of solutions of a system of partial differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR. Ser. Fiz.-Mat.* 1968, *no.* 1, 35-46. (A. Langenbach) 38 #4794

The stability of the eigenvalues. (Russian) *Izv. Akad. Nauk Kazah. SSR. Ser. Fiz.-Mat.* 1968, *no.* 3, 87-89. (L. Janos) 41 #556

Šuležko, L. F.

(with Berezovs′kiĭ, A. A.) On the parametric resonance of a plate in a non-linear setting. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1963, 989-993. (Authors' summary) 29 #3043

Increasing the stability of flexible plates and cylindrical panels by means of vibrations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1964, 10-14. (Author's summary) 29 #4310

Šul′ga, Ju. N.

(with Ovčarenko, V. V.) The determination of the quantity of rolling stock for urban passenger transport itineraries. (Russian) *Ėkonom. i Mat. Metody* 7 (1971), 397-409. (S. B. Krčevinac) 44 #7961

Šul'ga, M. O.

On the solution of the Helmholtz equation in curvilinear coordinates. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 916-919. 39 #1811

(with Guz', O. M.) Certain cases of the application of the addition theorem on cylindrical functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 1005-1008, 1053. (Authors' summary) 43 #7753

Šul'geĭfer, E. G.

* (with Kuroš, A. G.; Livšic, A. H.; Calenko, M. S.) Zur Theorie der Kategorien. Übersetzung und wissenschaftliche Redaktion von H. Boseck und H.-J. Hoehnke. Mathematische Forschungsberichte, XV. *VEB Deutscher Verlag der Wissenschaften, Berlin*, 1963. 80 *pp.* (Editors) 32 #135

(with Livšic, A. H.; Calenko, M. S.) The theory of categories. (Russian) *Itogi Nauki (Algebra. Topology.* 1962*), pp.* 90-106. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow*, 1963. (B. M. Schein (Šaĭn)) 30 #132

(with Livšic, A. H.; Calenko, M. S.) Varieties in categories. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 554-581. (L. Budach) 32 #2457

Functorial characterization of strict radicals in categories. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1412-1421. (J. Sonner) 34 #4333

Localizations and strongly hereditary strict radicals in categories. (Russain) *Trudy Moskov. Mat. Obšč.* 19 (1968), 271-301. (M. L. Laplaza) 38 #5881

(with Calenko, M. S.) Categories. (Russian) *Algebra. Topology. Geometry.* 1967 *(Russian), pp.* 9-57. *Akad. Nauk SSSR Vseojuz. Inst. Naučn. Tehn. Informacii. Moscow*, 1969. (N. Popescu) 41 #1825

Šul'gin, A. M.

A generalization of a certain theorem of Levi-Civita to the case of a holonomic nonconservative system. (Russian. Uzbek summary) *Dokl. Akad. Nauk UzSSR* 1966, *no.* 10, 6-10. (B. Choczewski) 42 #7115

Šul'gin, M. F.

On a method of integrating the equations of motion of a non-holonomic system. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 222 (1963), 55-72. (A. Langenbach) 33 #6881

Partucular solutions of equations in dynamics with constraint coefficients. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 275 (1966), 10-15. (O. Gürel) 36 #4854

(with Kramarovskiĭ, B. I.) On the theory of the equations of dynamics in surplus coordinates. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 292 (1967), 36-43. (S. Raman) 41 #9469

Šul'gina, I. M.

Various forms of the equations of motion of a system of points with variable mass. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 222 (1963), 24-37. (P. Sagirow) 34 #7079

Šul'gina, L. T.

(with Krylov, V. I.) On the remainder in the numerical integration of periodic functions of one variable. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 617-620. (P. C. Hammer) 30 #5485

* (with Krylov, V. I.) Справочная книга по численному интегрированию. (Russian) [Handbook of numerical integration] *Izdat. "Nauka", Moscow*, 1966. 370 *pp.* (C. de Boor) 35 #3879

Improvement by interpolation of the convergence to the limit of a function of two arguments. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 4, 37-43. (S. Măruşter) 44 #3456

Sulhanišvili, G. I.

On the numerical integration of parabolic equations. (Russian. Georgian summary) *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze* 29 (1963), 333-357 (1964). (K. Rektorys) 31 #4198

On the numerical solution of equations of parabolic type. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin SSR* 33 (1964), 513-520. (J. Friberg) 30 #720

The solution of the generalized Cauchy-Dirichlet problem for the linear polycaloric equation. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2258-2266. (O. Horáček) 42 #682

The solution of the generalized Cauchy-Dirichlet problem for a nonlinear polycaloric equation. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 56 (1969), 29-32. (A. Haimovici) 43 #721

The unique solvability of the Dirichlet difference problem for an elliptic system. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 62 (1971), 525-528. (J. Chrastina) 44 #3043

Sulickiĭ, V. N.

A computation of the derivative on the basis of discretely entering information. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 500-508. (M. Zlámal) 40 #6774

Šulikovskiĭ, V. I.

* Классическая дифференциальная геометрия в тензорном изложении. (Russian) [Classical differential geometry in tensor form] Edited by A. P. Norden. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow*, 1963. 540 *pp.* (D. J. Struik) 29 #6396

(with Kopp, V. G.; Laptev, B. L.; Širokov, A. R.) Aleksandr Petrovič Norden (on his sixtieth birthday). (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 5 (119), 171-179. (1 *plate*) (Editors) 29 #4662

Geodesic fields of vectors of a two-dimensional space with affine connection. (Russian) *Gravitation and Theory of Relativity, No.* 2 *(Russian), pp.* 114-120. *Izdat. Kazan. Univ., Kazan*, 1965. (L. Tamássy) 35 #2237

Suliński, A.

(with Divinsky, N.) Kurosh radicals of rings with operators. *Canad. J. Math.* 17 (1965), 278-280. (E. H. Batho) 32 #2442

(with Anderson, T.; Divinsky, N.) Hereditary radicals in associative and alternative rings. *Canad. J. Math.* 17 (1965), 594-603. (M. F. Smiley) 31 #215

The Brown-McCoy radical in categories. *Fund. Math.* 59 (1966), 23-41. (H.-J. Hoehnke) 34 #1378

(with Anderson, Robert F. V.; Divinsky, N.) Lower radical properties for associative and alternative rings. *J. London Math. Soc.* 41 (1966), 417-424. (W. G. Leavitt) 33 #4095

(with Divinsky, N.; Krempa, J.) Strong radical properties of alternative and associative rings. *J. Algebra* 17 (1971), 369-388. (C. Tsai) 42 #7726

Sulin'skiĭ, A. See Suliński, A.

Šulišnina, N. P.

(with Belocerkovskiĭ, O. M.; Golomazov, M. M.) Calculation of the flow of a uniformly dissociating gas about blunt bodies with departing shock wave. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 306-316. (M. Holt) 30 #1701

Šulka, Robert

Factor semigroups of a semigroup. (Slovak. Russian and English summaries) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 13 (1963), 205-208. (F. Šik) 33 #7445

On nilpotent elements, ideals and radicals of a semigroup. (Russian. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 13 (1963), 209-222. (F. Šik) 33 #7446

A note on radicals in factor semigroups. (Russian. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 14 (1964), 297-300. (H.-J. Hoehnke) 32 #1279

Radicals and topology in semigroups. (Russian. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 15 (1965), 3-14. (K. A. Ross) 32 #151

Note on the Ševrin radical in semigroups. (Loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 57-58. (H. J. Weinert) 39 #4305

Note on the nilpotency in compact H-semigroups. *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 105-112. (Haskell Cohen) 39 #1587

On the nilpotency in semigroups. *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 148-157. (H. J. Weinert) 39 #4306

Sulley, L. J.

A note on B- and B_r-complete topological Abelian groups. *Proc. Cambridge Philos. Soc.* 66 (1969), 275-279. (T. Husain) 40 #1524

On $B(\mathfrak{T})$ and $B_r(\mathfrak{T})$ locally convex spaces. *Proc. Cambridge Philos. Soc.* 68 (1970), 95-97. (T. Husain) 42 #817

Sullivan, Daniel D.

A fundamental inequality between the probabilities of binary subgroups and cosets. *IEEE Trans. Information Theory* IT-13 (1967), 91-94. (Author's summary) 35 #1406

(with Bower, E. K.; Dwyer, S. J., III) The asymptotic average degree of an augmented polynomial. *Information and Control* 12 (1968), 15-20. (Authors' summary) 38 #4196

Error-propagation properties of uniform codes. *IEEE Trans. Information Theory* IT-15 (1969), 152-161. (N. J. A. Sloane) 41 #9643

Sullivan, Dennis

On the Hauptvermutung for manifolds. *Bull. Amer. Math. Soc.* 73 (1967), 598-600. (E. H. Brown) 35 #3676

(with Cohen, Marshall M.) On the regular neighborhood of a two-sided submanifold. *Topology* 9 (1970), 141-147. (L. S. Husch) 41 #9262

Combinatorial invariants of analytic spaces. *Proceedings of Liverpool Singularities--Symposium, I* (1969/70), *pp.* 165-168. *Lecture Notes in Mathematics, Vol.* 192. *Springer, Berlin*, 1971. (A. H. Wallace) 43 #4063

Geometric periodicity and the invariants of manifolds. *Manifolds--Amsterdam* 1970 *(Proc. Nuffic Summer School), pp.* 44-75. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin*, 1971. (J. Milnor) 44 #2236

Sullivan, Francis E.

Norm characterization of real L^p spaces. *Bull. Amer. Math. Soc.* 74 (1968), 153-154. (F. Cunningham, Jr.) 36 #5681

Structure of real L^p spaces. *J. Math. Anal. Appl.* 32 (1970), 621-629. (D. O. Koehler) 42 #5031 (with Cohen, Henry B.) Projecting onto cycles in smooth, reflexive Banach spaces. *Pacific J. Math.* 34 (1970), 355-364. (E. R. Deal) 42 #2283

Sullivan, Hugh D.

Time structures for abstract polysystems. *Proc. Cambridge Philos. Soc.* 67 (1970), 635-646. (W. R. Utz) 40 #7590

Sullivan, J. D.

(with Potter, W. T.) Analyticity of a scattering amplitude in an external-mass variable. (Italian and Russian summaries) *Nuovo Cimento A* (11) 3 (1971), 93-115. (D. I. Olive) 43 #8308

Sullivan, John Brendan

The uniqueness of integrals for Hopf algebras and some existence theorems of integrals for commutative Hopf algebras. *J. Algebra* 19 (1971), 426-440. (R. G. Larson) 44 #5365

Sullivan, John J.

On the construction of orthogonal matrix basis elements of finite group algebras symmetry adapted to a subgroup. *J. Mathematical Phys.* 12 (1971), 1387-1389. (F. R. Halpern) 44 #5013

Sullivan, Joseph A.

* (with Haaser, Norman B.; LaSalle, Joseph P.) A course in mathematical analysis. Vol. II: Intermediate analysis. *Blaisdell Publishing Co. [Ginn and Co.], New York-Toronto, Ont.-London,* 1964. xii + 677 *pp.* (W. Langlois) 29 #2332

* (with Haaser, Norman B.; LaSalle, Joseph P.) Análisis matemático. 2: Curso intermedio. (Spanish) [Mathematical analysis. 2: Intermediate course] Translated from the English by Federico Velasco Coba. *Editorial F. Trillas, S. A., Mexico,* 1970. 786 *pp.* (Editors) 42 #432

Sullivan, Mark W.

* Apuleian logic. The nature, sources, and influence of Apuleius's ***Peri hermeneias***. *North-Holland Publishing Co., Amsterdam,* 1967. ix + 265 *pp.* (N. Rescher) 38 #9

Sullivan, Philip A.

Inviscid hypersonic flow on cusped concave surfaces. *J. Fluid Mech.* 24 (1966), 99-112. (1 *plate*) (H. K. Cheng) 33 #5214

Sullivan, R. W.

Differentiable actions of classical groups on spheres. *Topology* 9 (1970), 155-167. (C. B. Thomas) 41 #6244

Sullivan, Wayne G.

Concerning the sufficiency of hypervirial relations. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 285-287. (K. Kreith) 36 #4377

Sullivan Anderson, Sabra. See Anderson, Sabra Sullivan.

Šul'man, I. Š.

(with Košljakov, V. N.; Ljusin, Ju. B.; Storoženko, V. A.; Temčenko, M. E.) Stability of solutions of the differential equations for the autonomous determination of the coordinates of a moving object. *Dokl. Akad. Nauk SSSR* 179 (1968), 34-36 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 201-202. (J. M. Skowroński) 38 #2394

Šul'man, T. A.

Invariant nets on hypersurfaces in a four-dimensional projective space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 137-142. (A. Urban) 29 #6411

A hypersurface in four-dimensional projective space. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 190 (1965), 35-44. (A. Goetz) 36 #5837

Šul'man, V. S.

(with Liberzon, V. I.) Operator-irreducible symmetric operator algebras in the Pontrjagin space Π^1. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 1159-1170. (G. A. Elliott) 44 #5789

The relation between classes of functions that are integrable in the sense of Lebegue and summable in the sense of Birkhoff-Hinčin. (Russian) *Mat. Zametki* 10 (1971), 219-228. (K. Karták) 44 #6939

An example of a function that is integrable in the sense of Denjoy and nonsummable in the sense of Hinčin. (Russian) *Mat. Zametki* 10 (1971), 295-300. (K. Karták) 44 #4186

Šul'meister, E. G.

Approximation of functions by exponential polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Èlektromehanika* 1966, *no.* 11, 1173-1180. (I. Šelihova (RŽMat 1967 #8 B594)) 43 #5691

Sułocki, Jerzy

Application of differential operators to problems of the theory of elasticity. (Polish. Russian and English summaries) *Rozprawy Inż.* 12 (1964), 339-395. (R. M. Evan-Iwanowski) 32 #3340

Sultan, Roger

(with Blanc-Lapierre, André; Krivine, Bernard) Transformations linéaires conservant la stationnarité de second ordre. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1115-A1117. (Vo-Khac Khoan) 39 #4925

(with Blanc-Lapierre, André) Sur deux modèles de fonctions aléatoires dérivés d'un processus de Poisson. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A326-A328. (E. S. Keeping) 41 #6380

Sultangazin, U. M.

On a certain gradient method for determining an eigenvector corresponding to the smallest eigenvalue of a positive definite matrix. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 182-184. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (Walter Gautschi) 33 #1959

(with Marčuk, G. I.) Convergence of a decoupling method for the radiation transfer equation. *Dokl. Akad. Nauk SSSR* 161 (1965), 66-69 *(Russian); translated as Soviet Physics Dokl.* 10 (1965), 197-199. (S. Ueno) 32 #5312

(with Marčuk, G. I.) Solving the kinetic transfer equation by the separation method. *Dokl. Akad. Nauk SSSR* 163 (1965), 857-860 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 721-724. (R. C. Mjolsness) 32 #7124

(with Marčuk, G. I.) On a proof of the splitting method for the equation of radiation transfer. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 852-863. (E. H. Bareiss) 33 #7071

On solving the kinetic transfer equation by the splitting method. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 31-39. 33 #8113

Solution of the transfer equation in the case of an anisotropic scattering by the splitting method. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 156-173. (P. K. Ghosh) 35 #3999

(with Penenko, V. V.; Balaš, B. A.) Solution of the kinetic equation by the splitting method. (Russian) *Computing Methods in Transport Theory (Proc. First All-Union Sympos., Novosibirsk,* 1967*) (Russian), pp.* 145-163. *Atomizdat, Moscow,* 1969. (L. J. Rubinstein) 44 #7918

Sultanov, I. A.

Resolving equations for studying absolute stability of control systems with several control elements. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 161-166. (B. A. Fleishman) 30 #1872

Sultanov, R. M.

Differentiability of the solution of a differential equation in a Banach space with respect to the parameter and initial data. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1959, *no.* 6, 23-28. (M. M. Vaĭnberg (RŽMat 1962 #6 B491)) 36 #2930

Investigation of the continuity of the solutions of nonlinear integral equations with dependence on a parameter. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1960, *no.* 6, 11-18. (Editors) 36 #4291

The differentiability of solutions of nonlinear integral equations with respect to a parameter. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1961, *no.* 2, 9-16. (Editors) 36 #4292

An investigation of the solution of a system of partial differential equations with respect to a parameter in Banach space. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1965, *no.* 5, 3-10. (A. Haimovici) 35 #7019

One-sided estimates for solutions of nonlinear differential equations in Banach spaces. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 859-864. (S. Burýšek) 36 #492

Sultanov, T. M.

On the construction of multi-stage commutation schemes. (Russian) *Voprosy Kibernet. Vyčisl. Mat. Vyp.* 12 (1967), 77-94. 38 #4211

Sultanova, D. H.

Some asymptotic problems for a queue with prophylaxis and renewal. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 1, 20-25. (S. Kotz) 37 #2339

Estimates of approximation in asymptotic formulae for queueing systems with prophylaxis and renewal. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 6, 23-24. (Editors) 44 #6078

Certain asymptotic formulae for queueing systems with preventive inspection and renewal. (Russian) *Mathematical Methods in Quality Control and Reliability (Proc. All-Union Colloq., Tashkent,* 1967*) (Russian), pp.* 79-84. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. (V. S. Koroljuk) 43 #2783

Sultanova, Z. T.

Degeneration points in linear systems. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 22 (1966), *no.* 11, 3-7. (H. I. Freedman) 35 #3178

Critical points of linear systems with small parameter for the derivative: The case of triple degeneracy. (Russian) *Problems Comput. Math. (Russian), pp.* 208-215. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. (K. W. Chang) 36 #448

Šum, L. F.

Propagation of electromagnetic waves along composite curves. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Tèhn. Navuk* 1964, *no.* 4, 16-22. (K. Bhagwandin) 34 #2260

On a method of solution of the telegraph equation with discontinuous coefficients. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 1, 36-45. (E. Riekstiņš) 34 #4682

Sumarokov, L. N.
(with Vaĭradjan, A. S.; Onykiĭ, B. N.) A certain method of estimating the effectiveness of a computing system. (Russian) *Digital Computer Technology and Programming, No. 4 (Russian), pp.* 63-71. *Izdat. "Sovetskoe Radio", Moscow,* 1968. (W. Kwasowiec) 43 #5762

Šumeĭko, G. G.
Joint nomographing of two functions to within small quantities of higher order. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 2, 10-15. (E. M. Bruins) 32 #6713

Šumeĭko, V. D.
(with Borodjanskiĭ, M. Ja.) Reduction of a certain form of high order matrix to quasidiagonal form. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 365-368. (A. S. Householder) 39 #2783

Šumihina, N. A.
(with Kontorovič, P. G.; Busarkina, L. R.) Some set-theoretic partitionings of fields. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 1, 49-56 (1963). (L. Fuchs) 32 #1188

Sumihiro, Hideyasu
(with Hiromori, Katsuhisa) On the subgroup generated by thick subsets of an algebraic group. (Japanese) *Sûgaku* 17 (1965), 98-99. (T. Ono) 35 #1598
A remark on semi-reductive algebraic groups. (Japanese) *Sûgaku* 20 (1968), 166-167. (J. B. Kim) 40 #246
Reductive algebraic groups. *J. Math. Kyoto Univ.* 11 (1971), 527-544. (Carl Riehm) 44 #6710

Sumin, V. I.
(with Morozov, S. F.) A certain criterion for the compactness of a class of functions in the space $W_m^1(1 < ml \leq n)$. (Russian) *Mat. Zametki* 7 (1970), 733-741. (G. C. Barozzi) 42 #3563

Sumita, Yukimasa
Minimal harmonic functions on a Riemann surface. *Kōdai Math. Sem. Rep.* 18 (1966), 51-60. (L. V. Ahlfors) 35 #5607

Sumitomo, Takeshi
(with Yano, K.) Differential geometry on hypersurfaces in a Cayley space. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/64), 216-231 (1965). (T. J. Willmore) 30 #4230

Summerfield, G. C.
(with Kuščer, I.; McCormick, N. J.) Orthogonality of Case's eigenfunctions in one-speed transport theory. *Ann. Physics* 30 (1964), 411-421. (G. M. Wing) 31 #5642
(with Mendelson, M. R.) One-speed neutron transport in two adjacent half-spaces. *J. Mathematical Phys.* 5 (1964), 668-674. (E. M. Gelbard) 29 #6900
(with Mendelson, M. R.) Addendum: One-speed neutron transport in two adjacent half-spaces. *J. Mathematical Phys.* 5 (1964), 1804. (Authors' summary) 31 #1068
(with Kuščer, I.) Symmetries in scattering of slow neutrons. *Phys. Rev.* (2) 188 (1969), 1445-1449. (K. Imre) 41 #4988

Summerhill, R. Richard
Tree-like continua and cellularity. *Proc. Amer. Math. Soc.* 26 (1970), 201-205. (L. K. Barrett) 43 #1132

Summers, Robert D.
A capital intensive approach to the small sample properties of various simultaneous equation estimators. *Econometrica* 33 (1965), 1-41. (S. Ichimura) 31 #5684
An inequality for the sample coefficient of variation and an application to variables sampling. *Technometrics* 7 (1965), 67-68. (P. S. Dwyer) 31 #856

Summers, W. H.
Products of fully complete spaces. *Bull. Amer. Math. Soc.* 75 (1969), 1005. (Bor-Luh Lin) 40 #682
(with Collins, H. S.) Some applications of Hewitt's factorization theorem. *Proc. Amer. Math. Soc.* 21 (1969), 727-733. (P. Civin) 39 #1982
A representation theorem for biequicontinuous completed tensor products of weighted spaces. *Trans. Amer. Math. Soc.* 146 (1969), 121-131. (C. W. Kohls) 40 #4748
Dual spaces of weighted spaces. *Trans. Amer. Math. Soc.* 151 (1970), 323-333. (R. C. Buck) 42 #5022
The general complex bounded case of the strict weighted approximation problem. *Math. Ann.* 192 (1971), 90-98. (J. B. Prolla) 44 #2024

Summersbee, S.
(with Walters, A.) Programming the functions of formal logic. II. Multi-valued logics. *Notre Dame J. Formal Logic* 4 (1963), 293-305. (B. A. Galler) 29 #4673

Sumner, David P.
On a problem of Erdős. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics, 1968), pp.* 319-322. *Academic Press, New York,* 1969. (I. Z. Bouwer) 41 #3314

Sumners, D. W. L.
Higher-dimensional slice knots. *Bull. Amer. Math. Soc.* 72 (1966), 894-897. (M. W. Hirsch) 35 #3690
(with Hudson, J. F. P.) Knotted ball pairs in unknotted sphere pairs. *J. London Math. Soc.* 41 (1966), 717-722. (W. R. Alford) 36 #876
(with Bryant, J. L.) On embeddings of 1-dimensional compacta in a hyperplane in E^4. *Pacific J. Math.* 33 (1970), 555-557. (D. R. McMillan, Jr.) 42 #1087
Homotopy torsion in codimension two knots. *Proc. Amer. Math. Soc.* 24 (1970), 229-240. (J. P. Levine) 40 #6531
Invertible knot cobordisms. *Comment. Math. Helv.* 46 (1971), 240-256. (J. P. Levine) 44 #7535
H_2 of the commutator subgroup of a knot group. *Proc. Amer. Math. Soc.* 28 (1971), 319-320. (M. J. Dunwoody) 43 #1173
(with Andrews, J. J.) On higher-dimensional fibered knots. *Trans. Amer. Math. Soc.* 153 (1971), 415-426. (J. P. Levine) 42 #6808
(with Shinohara, Yaichi) Homology invariants of cyclic coverings with application to links. *Trans. Amer. Math. Soc.* 163 (1971), 101-121. (J. M. McPherson) 44 #2223
On an unlinking theorem. *Proc. Cambridge Philos. Soc.* 71 (1972), 1-4. (Wilbur Whitten) 44 #7536

Šumunov, L. N.
(with Ostrovskiĭ, G. M.) On a numerical method of solving optimal problems. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1967, *no.* 1, 56-61. (M. Urabe) 36 #1085

Sun, B.
(with Lo, Y. T.; Lee, S. W.) On Davis' method of estimating quadrature errors. *Math. Comp.* 19 (1965), 133-138. (P. J. Davis) 31 #1771

Sun, Dah-Chen
(with Yu, Yun-Sheng) Stability of a viscous flow between two rotating coaxial cylinders. *J. Franklin Inst.* 277 (1964), 140-149. (D. R. Breach) 29 #1837

Sun, E. Y. C.
Nicht-angestellte Deltaflügel mit Unterschall- und Schallvorderkanten. *J. Mécanique* 3 (1964), 141-163. (P. Mandl) 29 #3083

Sun, Fang Toh
On the orbital isochronism. *Celestial Mech.* 3 (1970/71), *no.* 3, 272-288. (D. Schmidt) 43 #2882

Sun, Hwan-chun. See Sun Huan-shui.

Sun, Jing-sen. See Sun Ching-sen.

Sun, K. C.
(with Moore, J. B.) Lyapunov function construction for a class of discrete time-varying systems. *IEEE Trans. Automatic Control* AC-14 (1969), 595. (Authors' summary) 42 #8984

Sun, Kung. See Kung Sheng.

Šun, M. S.
Approximation of functions and their derivatives. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 51-53. *Fizmatgiz, Moscow,* 1961. (Judah Rosenblatt) 33 #3016

Sun, Tze-Chien
Some further results on central limit theorems for non-linear functions of a normal stationary process. *J. Math. Mech.* 14 (1965), 71-85. (D. L. Hanson) 30 #624
A note on the unimodality of distribution functions of class L. *Ann. Math. Statist.* 38 (1967), 1296-1299. (H. Bergström) 35 #7376
(with Tserpes, N. A.) A note on the idempotent measures on countable semigroups. *J. Austral. Math. Soc.* 11 (1970), 417-420. (A. Mukherjea) 43 #4958
(with Tserpes, Nicolas A.) Idempotent measures on locally compact semigroups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 273-278. (R. A. Gangolli) 42 #7816
(with Schreiber, B. M.; Bharucha-Reid, A. T.) Algebraic models for probability measures associated with stochastic processes. *Trans. Amer. Math. Soc.* 158 (1971), 93-105. (Y.-K. Chan) 43 #5565

Sunaga, Teruo
An algebraic theory of the analysis and synthesis of automata. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp.* 385-414. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.,* 1963. (A. P. Ershov) 30 #3814

Sunahara, Yoshifumi

(with Sawaragi, Yoshikazu; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. I. Non-sequential decision system. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 127-140. (D. D. Sworder) 31 #6724

(with Sawaragi, Yoshikazu; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. II. Sequential decision system. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 141-155. (D. D. Sworder) 31 #6725

(with Sawaragi, Yoshikazu; Nakamizo, Takayoshi) Decision making in adaptive control systems with random inputs. III. Adaptive adjustment of parameters. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 13 (1963), 157-167. (D. D. Sworder) 31 #6726

(with Sawaragi, Yoshikazu; Ono, Toshiro) A study on dynamic optimization of control systems with Gaussian random inputs. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ.* 14 (1964), 61-87. (R. S. Bucy) 32 #1055

(with Sawaragi, Yoshikazu; Ono, Toshiro) A sub-optimal approach to the synthesis of optimum non-linear control systems with magnitude constraint. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 115 (1965), 20 *pp.* 31 #4684

(with Sawaragi, Yoshikazu; Ono, Toshiro; Inoue, Koichi) A study on statistical synthesis of optimal final-value control systems under the random environment. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 116 (1965), 16 *pp.* (Authors' summary) 31 #4688

(with Sawaragi, Yoshikazu; Hirakawa, Kenji) On the statistical analysis of integral transformation. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 115 (1965), 19 *pp.* (T. Kailath) 33 #5390

(with Sawaragi, Yoshikazu; Hara, Kei) Stability analysis of non-linear control systems with a dead time subjected to a stationary random input. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 128 (1966), 19 *pp.* (Authors' summary) 39 #7974

(with Sawaragi, Yoshikazu; Hara, Kei) On a method of evaluating the non-stationary response of time-variant non-linear control systems with a dead time. *Tech. Rep. Engrg. Res. Inst. Kyoto Univ. No.* 127 (1966), 16 *pp.* (Authors' summary) 40 #2412

(with Sawaragi, Yoshikazu; Hara, Kei) An analysis of non-stationary response of non-linear control systems with dead time subjected to a suddenly applied random disturbance with mean value. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 523-531. (Authors' summary) 42 #4296

An approximate method of optimal control of nonlinear dynamical systems with state-dependent noise. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp.* 444-453. *Univ. of Illinois, Urbana, Ill.*, 1968. (H. J. Kushner) 42 #1559

Applications of stochastic differential equations to the theory of control processes. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 2-10. (Editors) 42 #4299

Control for nonlinear dynamical systems under noisy observations. *Mem. Fac. Indust. Arts Kyoto Tech. Univ. Sci. and Tech.* 17 (1968), 40-57. (C. P. Tsokos) 41 #1412

An approximate method of state estimation for nonlinear dynamical systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 439-452. (Author's summary) 42 #4300

(with Ohsumi, Akira) An approximate method of stochastic terminal control for nonlinear dynamical systems. *J. Franklin Inst.* 289 (1970), 205-222. (H. J. Kushner) 42 #7357

Sunčeleev, R. Ja.

Solution of fundamental problems of the equilibrium of an elastic isotropic cylinder. (Russian) *Teoret. Prikl. Mat. Vyp.* 1 (1958), 150-165. (J. Ignaczak) 33 #6910

The solution of certain boundary problems for a transverse-isotropic elastic medium. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 3, 21-28. (P. P. Teodorescu) 33 #2040

Dynamic problems for a transversal-isotropic half-space and an elastic layer. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 6, 37-48. (P. P. Teodorescu) 33 #2041

Sun′ Cèn-guan. See Sun Chi-kuang.

Suncev, V. N.

(with Naumenko, K. I.) The synthesis of optimal n-dimensional stabilization systems that are invariant in relation to a certain class of stationary stochastic external perturbations. (Russian) *Certain Problems of Applied Mathematics, No. 4 (Russian), pp.* 263-267. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (P. Neumann) 41 #9635

Sun Ch'ao

The solitary wave in shear flows. (Chinese. Russian summary) *Acta Mech. Sinica* 5 (1962), 101-106. (Chia-Shun Yih) 32 #693

Sun Chia-ch'ang

A boundary value problem of Carleman for generalized analytic functions. (Russian) *Sci. Sinica* 14 (1965), 1233-1234. (G. R. Sell) 32 #4378

Sun Chia-chung

(with Chiang Tung-chen) The problem of the Van der Waals forces: the Van der Waals forces for a system of asymmetric-top modules. *Sci. Sinica* 10 (1961), 189-201. (J. M. Blatt) 30 #1774

Sun Chi-kuang

(with Kung Sheng) Integrals of Cauchy type in several complex variables. I. Integrals of Cauchy tyep on a hypersphere. *Acta Math. Sinica* 15 (1965), 431-443 *(Chinese); translated as Chinese Math.-Acta* 7 (1965), 138-151. (M. Hervé) 33 #1492

(with Kung Sheng) The Cauchy type integrals of several complex variables. I. The Cauchy type integrals on a hypersphere. *Sci. Sinica* 14 (1965), 300-301. (A. Aeppli) 32 #7785

(with Kung Sheng) Integrals of the Cauchy type of several complex variables. II. Integrals of the Cauchy type on the hyperbolic space of a Lie sphere. *Sci. Sinica* 14 (1965), 453-456. (A. Aeppli) 32 #7786

(with Kung Sheng) Integrals of Cauchy type in several complex variables. II. Integrals of Cauchy type in hyperbolic spaces of Lie spheres. *Acta Math. Sinica* 15 (1965), 775-799 *(Chinese); translated as Chinese Math.-Acta* 7 (1965), 509-534. (M. Hervé) 33 #7580a

(with Kung Sheng) Integrals of Cauchy type in several complex variables. III. Integrals of Cauchy type in hyperbolic spaces of matrices. *Acta Math. Sinica* 15 (1965), 800-811 *(Chinese); translated as Chinese Math.-Acta* 7 (1965), 535-546. (M. Hervé) 33 #7580b

(with Kung Sheng) Cauchy type integrals on a typical domain of several complex variables. II. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 49-50. (C.-J. Hsu) 35 #1826

(with Kung Sheng) Integral representations of analytic functions of several complex variables on circular domains. *Sci. Sinica* 14 (1965), 302. (B. Bojarski) 35 #1813

(with Kung Sheng) The Cauchy type integrals of several complex variables. III. Integrals of the Cauchy type on hyperbolic spaces of matrices. *Sci. Sinica* 14 (1965), 621-623. (M. Hervé) 35 #3083

(with Kung Sheng) On singular integral equations on the complex hypersphere. (Russian) *Sci. Sinica* 14 (1965), 913-916. (B. Bojarski) 35 #2110

(with Kung Sheng) Singular integral equations on a complex hypersphere. *Acta Math. Sinica* 16 (1966), 194-210 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 205-221. (T. W. Mullikin) 36 #635

Sun Ching-sen

(with Lu Wei-mien; Ch'en Pu-ch'uan; Wang Kuang-fa; Wang Shao-sheng) On the Cauchy problem for a parabolic Monge-Ampère equation. *Acta Math. Sinica* 12 (1962), 273-277 *(Chinese); translated as Chinese Math.* 3 (1963), 302-306. (R. Barrar) 29 #6194

Sun′ Czja-čan. See Sun Chia-ch'ang.

Sun′-czy. See Sun-tsu.

Sundaram, A.

(with Ramakrishnan, Alladi; Santhanam, T. S.; Chandrasekaran, P. S.) Helicity matrices for generalized Clifford algebra. *J. Math. Anal. Appl.* 26 (1969), 275-278. (F. D. Veldkamp) 38 #5822

Sundaram, A. K.

The stability of a self-gravitating system with twisted magneti fields. *Canad. J. Phys.* 43 (1965), 338-352. (S. Gartenhaus) 31 #1075

(with Bhutani, O. P.) Helmholtz instability of a viscous compressible plasma. *Canad. J. Phys.* 43 (1965), 1891-1903. (T. J. M. Boyd) 32 #8657

Sundaram, S. Minakshi. See Minakshisundaram, S.

Sundara Raja Iyengar, K. T. See Iyengar, K. T. Sundara Raja.

Sundararajan, P. K.

Some integrals involving E-function of MacRobert and G-function of Meijer. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 97-104. (B. R. Bhonsle) 36 #2838

On the derivative of a G-function whose argument is a power of the variable. *Compositio Math.* 17, 286-290 (1966). (B. R. Bhonsle) 34 #6165

Some finite and infinite integrals involving G-function. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 435-440. (Author's summary) 40 #5924

Sundaresan, Kondagunta

} (with Schaffer, Juan Jorge) Reflexivity and the girth of spheres. *Math. Ann.* 184 (1969/70), 163-168. (R. C. James) 41 #4209; erratum, 42, p. 1824 }

Sundaresan, M. K.

Kinetic equation for a plasma in a strong static magnetic field. *Canad. J. Phys.* 44 (1966), 247-254. (Author's summary) 32 #3446

(with Watson, P. J. S.) Bethe-Salpeter equation with a near harmonic interaction. *Ann. Physics* 59 (1970), 375-407. (J. T. Cushing) 41 #9520

Sundblad, Yngve

The Ackermann function. A theoretical, computational, and formula manipulative study. *Nordisk Tidskr. Informationsbehandling (BIT)* 11 (1971), 107-119. (S. A. Walker) 44 #2384

Sunder Lal

(See Bruhat, F., 39 #2765)

On the Fourier coefficients of Hilbert-Siegel modular forms. *Math. Z.* 88 (1965), 207-243. (J. Spilker) 31 #387

* (with Narasimhan, Raghavan; Raghavan, S.; Rangachari, S. S.) Algebraic number theory. Mathematical Pamphlets, 4. *Tata Institute of Fundamental Research, Bombay*, 1966. iv + 98 *pp.* (From the preface) 41 #1682

Sundet, Knut Lage

On the existence of systems of plane, rational and elliptic algebraic curves, given by a group of points. A numerical criterion. *Rend. Mat. e Appl.* (5) 22 (1963), 469-488. (F. Gherardelli) 30 #5207

On Cremonian reducibility of a linear system to a pencil of cubics. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 171-177. (A. Evyatar (Gutwirth)) 31 #6157

On the existence of certain systems of plane elliptic curves: Condition for Cremonian reducibility to a Halphen-pencil. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 362-368. (F. Gherardelli) 35 #1593

On the plane Cremona transformations with distinct and adjacent fundamental points. A generalization. *Bull. Soc. Roy. Sci. Liège* 35 (1966), 664-681. (A. Evyatar (Gutwirth)) 35 #860

Sun' Dja-čan. See Sun Chia-ch'ang.

Sundqvist, Hilding

(with Veronis, George) A simple finite-difference grid with non-constant intervals. (Russian summary) *Tellus* 22 (1970), 26-31. (Authors' summary) 41 #7869

Suñer y Balaguer, F. See Sunyer Balaguer, F.

Sun'Hè-šèn. See Sun Ho-sheng.

Sun He-sheng. See Sun, Ho-sheng.

Sun Hong-zhou. See Sun Hung-chou.

Sun Ho-sheng

Some problems in partial differential equations arising from geometry. *Acta Math. Sinica* 10 (1960), 288-315 *(Chinese); translated as Chinese Math.-Acta* 1 (1962), 300-327. (P. Drăgilă) 31 #6168

Sun Huan-ch'un. See Sun Huan-shui.

Sun Huan-shui

(with Tang Li-min) Three-dimensional elasticity problems solved by complex variable method. *Sci. Sinica* 12 (1963), 1627-1649. (D. R. Bland) 31 #1808

Sun Hung-chou

A study of the SU_3 wave functions. *Sci. Sinica* 14 (1965), 840-858. (K. T. Hecht) 33 #2286

Sun Jia-chang. See Sun Chia-ch'ang.

Sun Jia-zhong. See Sun Chia-chung.

Sun Ji-guang. See Sun Chi-kuang.

Sun Jing-sen. See Sun Ching-sen.

Suh' Jun-šen. See Sun Yung-sheng.

Šunkov, V. P.

On groups which are decomposable into a uniform product of their p-subgroups. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 542-544. (M. Greendlinger) 29 #2296

On the theory of generalized solvable groups. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1279-1282. (P. Fong) 32 #2476

Abstract characterization of a simple projective group of type $PGL\ (2,K)$ over a field K of characteristic $r \neq 0$, 2. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 837-840. (P. Fong) 32 #7639

A contribution to the theory of locally finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1272-1274. (L. G. Kovács) 33 #2727

A certain generalization of Frobenius' theorem to periodic groups. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 3, 113-124. (S. Moran) 37 #6360

On the theory of periodic groups. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 1236-1237. (H. Seidel) 36 #1524

On a locally finite group with extremal Sylow p-subgroups with respect to a certain prime number p. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 213-229. (J. Wiegold) 35 #243

Periodic group with almost regular involutions. (Russian) *Algebra i Logika* 7 (1968), *no.* 1, 113-121. (L. G. Kovács) 40 #4347

The problem of minimality for subgroups in locally finite groups. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 294-295. (J. Wiegold) 37 #6368

The problem of minimality for locally finite groups. (Russian) *Algebra i Logika* 9 (1970), 220-248. (D. I. Zaicev) 44 #295

Locally finite groups with a minimality condition for abelian subgroups. (Russian) *Algebra i Logika* 9 (1970), 579-615. (D. I. Zaĭcev) 44 #296

Periodic groups with certain finiteness conditions. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1290-1293. (F. Haimo) 43 #327

On the theory of polycyclic groups. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 222-231. (F. Haimo) 42 #7784

Sunouchi, Gen-ichirô

On the class of saturation in the theory of approximation. II. *Tôhoku Math. J.* (2) 13 (1961), 112-118. (R. Campbell) 29 #2599

Saturation in the theory of best approximation. (With discussion) *On Approximation Theory (Proceedings of Conference in Oberwolfach*, 1963*), pp.* 72-88. *Birkhäuser, Basel*, 1964. (L. Leindler) 31 #5029

(with Butzer, P. L.) Approximation theorems for the solution of Fourier's problem and Dirichlet's problem. *Math. Ann.* 155 (1964), 316-330. (R. A. Askey) 33 #7758

Strong summability of Walsh-Fourier series. *Tôhoku Math. J.* (2) 16 (1964), 228-237. (D. P. Gupta) 34 #4814

Saturation in the local approximation. *Tôhoku Math. J.* (2) 17 (1965), 16-28. (L. Leindler) 32 #6139

On the strong summability of orthogonal series. *Acta Sci. Math. (Szeged)* 27 (1966), 71-76. (B. E. Rhoades) 33 #3039

Strong approximation by Fourier series and orthogonal series. *Indian J. Math.* 9 (1967), 237-246. (S. Izuni) 37 #6666

Derivatives of a polynomial of best approximation. *Jber. Deutsch. Math.-Verein.* 70 (1967/68), *Heft* 3, *Abt.* 1, 165-166. (R. Kopp) 38 #1442

On the convolution algebra of Beurling. *Tôhoku Math. J.* (2) 19 (1967), 303-310. (J. Bryant) 36 #3044

Some criteria for the absolute summability of a Fourier series. *Tôhoku Math. J.* (2) 19 (1967), 311-314. (J. Bryant) 36 #3060

On the Littlewood-Paley function g^* of multiple Fourier integrals and Hankel multiplier transformations. *Tôhoku Math. J.* (2) 19 (1967), 496-511. (F. C. Hsiang) 37 #694

(with Kozima, Michitaka) On the approximation and saturation by general singular integrals. *Tôhoku Math. J.* (2) 20 (1968), 146-169. (Z. Ditzian) 38 #464

Derivatives of a trigonometric polynomial of best approximation. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach* 1968*), pp.* 233-241. *Birkhäuser, Basel*, 1969. (A. Meir) 41 #8904

Direct theorems in the theory of approximation. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 409-420. (J. Bryant) 42 #2238

(with Alexits, George) Characterization of classes of functions by polynomial approximation. *Acta Sci. Math. (Szeged)* 31 (1970), 1-7. (P. L. Butzer) 41 #8902

Sunouchi, Haruo

(with Kojima, Kiyofumi) On convolutions of generalized functions. *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 30 (1965), 46-50. (A. Persson) 32 #6210

(with Ôharu, Shinnosuke) On the cross product of Boolean matrices. (Japanese. English summary) *Bull. Sci. Engrg. Res. Lab. Waseda Univ. No.* 38 (1967), 91-96. (From the authors' summary) 38 #168

Perturbation theory of difference schemes. *Numer. Math.* 12 (1968), 454-458. (Author's summary) 39 #5069

(with Oharu, Shinnosuke) On the convergence of semigroups of linear operators. *J. Functional Analysis* 6 (1970), 292-304. (S. Kantorovitz) 42 #2317

Convergence of semi-discrete difference schemes of abstract Cauchy problems. *Tôhoku Math. J.* (2) 22 (1970), 394-408. (J. E. Lagnese) 43 #983

Sun Sheng-lu

(with Hsu Shu-jun) Functions computable on a finite automaton. (Chinese) *Shuxue Jinzhan* 9 (1966), 234-237. 38 #3090

Sun Shun-hua

The equations of the closed trajectories in rotated vector fields. *Acta Math. Sinica* 14 (1964), 50-57 *(Chinese); translated as Chinese Math.* 5 (1964), 54-62. (J. K. Hale) 29 #2470

On the Wiener-Hopf integral equations with nonnegative kernels and a class of nonlinear singular integral equations. *Sci. Sinica* 14 (1965), 1068-1072. (H. Widom) 36 #3094

Sun-tzu

(See Berezkina, È. I., 40 #4054 and 40 #4056)

Mathematical treatise. (Russian) Translated from the original Chinese by È. I. Berezkina. *From the History of Science and Technology in the East, No.* 3 *(Russian), pp.* 22-39. *Izdat. Vostočn. Lit., Moscow*, 1963. (K. Vogel) 40 #4055

Sunyach, Christian

Sur le théorème de Cauchy-Lipschitz. *Bull. Sci. Math.*(2) 92 (1968), 73-79. (J. Prouse) 39 #1780

Compléments au théorème du graphe fermé. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A215-A216. (T. Husian) 38 #5986

Une caractérisation des espaces universellement Radon-mesurables. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A864-A866. (A. Badrikian) 40 #1573

Sur le théorème du graphe borélien. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A233-A234. (Edwin Duda) 40 #2026 (with De Wilde, Marc) Un théorème de sélection pour des applications à graphe borélien. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A273-A274. (Edwin Duda) 40 #2023

Sunyer Balaguer, F.

Generalization of the method of Wiman and Valiron to a class of Dirichlet series. (Spanish) *Rev. Acad. Ci. Zaragoza* (2) 16 (1961), *no.* 1, 9-13. (A. A. Armendáriz) 29 #3616

Approximation of holomorphic functions in a half-strip by sums of exponentials. (Spanish) *Collect. Math.* 15 (1963), 91-103. (A. A. Armendáriz) 31 #1383

On families of infinite sets of natural numbers. (Spanish) *Math. Notae* 19 (1964), 133-135. (S. Marcus) 29 #4728

Approximation of functions by linear combinations of exponentials. *Collect. Math.* 17 (1965), 145-177. (A. E. Danese) 34 #6413

* Sobre un espai de funcións enteres d'ordre infinit. (Catalan) [On a space of entire functions of infinite order] Institut d'Estudis Catalans. Arxius de la Secció de Ciències, No. 33. *Institut d'Estudis Catalans, Barcelona,* 1967. 38 *pp.* (A. G. Azpeitia) 36 #384

On the singular points of functions represented by Dirichlet series. (Spanish) *Proc. Fifth Annual Reunion of Spanish Mathematicians (Valencia,* 1964*) (Spanish), pp.* 48-53. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1967. (M. Reade) 39 #7070

(See also Augé, Juan, 38 #3109)

On a space of entire functions of infinite order. (Spanish) *In Honor of Prof. Dr. Iñiguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp. Consejo Sup. Investigación. Ci. Fac. Ci. Zaragoza, Zaragoza,* 1969. (A. Baillette) 40 #5861

On the asymptotic paths of entire functions represented by Dirichlet series. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 37-41. *Ohio Univ. Press, Athens, Ohio,* 1970. (R. S. L. Srivastava) 43 #3449

Sunyer i Balaguer, Ferran. See Sunyer Balaguer, F.

Sun Yong-sheng. See Sun Yung-sheng.

Sun Yung-sheng

Uniform approximation of continuous periodic functions by the Cesàro mean value of its Fourier series. (Chinese) *Shuxue Jinzhan* 6 (1963), 379-387. (T. P. Lin) 34 #3218

(with Chang Yang-chun) Asymptotic behavior of the best approximations of two conjugate periodic functions. *Acta Math. Sinica* 14 (1964), 578-596 *(Chinese); translated as Chinese Math. Acta* 5 (1964), 623-641. (G. G. Lorentz) 30 #4107

Strong $(C,1)$ summation of series in orthogonal functions. (Chinese) *Shuxue Jinzhan* 9 (1966), 281-286. (Chao-ping Chang) 38 #6301

Sun' Yun-šen. See Sun Yung-sheng.

Suominen, Kalevi

Quasiconformal maps in manifolds. *Ann. Acad. Sci. Fenn. Ser. A I No.* 393 (1966), 39 *pp.* (T. Bagby) 36 #6615

Duality for coherent sheaves on analytic manifolds. *Ann. Acad. Sci. Fenn. Ser. A I No.* 424 (1968), 19 *pp.* (M. Herrera) 39 #3036

Suonio, Reino Kurki-. See Kurki-Suonio, Reino.

Supino, Giulio

Sopra la possibilità di modelli geologici. I. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 349-353. (P. Caloi) 32 #5351

Supnick, Fred

(with Quintas, Louis V.) Extreme Hamiltonian circuits. Resolution of the convex-odd case. *Proc. Amer. Math. Soc.* 15 (1964), 454-456. (H. T. Croft) 29 #519

(with Quintas, Louis V.) Extreme Hamiltonian circuits. Resolution of the convex-even case. *Proc. Amer. Math. Soc.* 16 (1965), 1058-1061. (H. T. Croft) 32 #2974

(with Quintas, L. V.) On some properties of shortest Hamiltonian circuits. *Amer. Math. Monthly* 72 (1965), 977-980. (H. T. Croft) 32 #6304

(with Quintas, Louis V.) Extrema in space-time. *Canad. J. Math.* 18 (1966), 678-691. (H. T. Croft) 34 #4988

(with Quintas, Louis V.) Extrema concerning polygons in space-time. *Bull. Amer. Math. Soc.* 72 (1966), 71-74. (H. T. Croft) 32 #6305

A class of combinatorial extrema. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 370-382. (A. Gewirtz) 44 #3888

Suppa, Rosetta

Un'osservazione sugli autoomeomorfismi dei cerchi. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 354-355. (P. Vincensini) 34 #8262

Suppe, C.

Entartete Systeme linearer Differentialgleichungen erster Ordnung mit konstanten Koeffizienten als Grenzfall normaler Systeme. *Z. Angew. Math. Mech.* 48 (1968), 286-288. (D. Laugwitz) 38 #3495

(with Elster, K.-H.) Zur Entwicklung der Dualitätstheorie in der nichtlinearen Optimierung. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 77-98. (R. F. Albrecht) 44 #1436

Suppes, Patrick

(See Logic, methodology and philosophy of science, 29 #3347; Mathematical methods in small group processes, 29 #4611; and Mathematical logic and its applications, 33 #5444)

Logics appropriate to empirical theories. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 364-375. *North-Holland, Amsterdam,* 1965. (J. M. Cook) 34 #7133

(with Lamperti, John) Correction to: Chains of infinite order and their application to learning theory. *Pacific J. Math.* 15 (1965), 1471-1472. (R. D. Luce) 32 #6549

(See also Aspects of inductive logic, 34 #1153)

The probabilistic argument for a non-classical logic of quantum mechanics. *Philos. Sci.* 33 (1966), 14-21. (T. Kahan) 35 #6415

L'argument probabiliste pour une logique non classique de la mécanique quantique. *E. W. Beth Memorial Colloquium (Paris,* 1964*), pp.* 80-91. *D. Reidel, Dordrecht,* 1968. (M. J. Mączyński) 39 #5115

(with Moler, Nancy) Quantifier-free axioms for constructive plane geometry. *Compositio Math.* 20, 143-152 (1968). (W. Schwabhäuser) 37 #4699

* Studies in the methodology and foundations of science. Selected papers from 1951 to 1969. *D. Reidel Publishing Co., Dordrecht; Humanities Press, New York,* 1969. xii + 473 *pp.* (Editors) 40 #4049

(See also Information and inference, 42 #7456)

(with Jamison, Dean; Lhamon, Deborah) Learning and the structure of information. *Information and Inference, pp.* 197-259. *Reidel, Dordrecht,* 1970. (R. D. Luce) 43 #4553

Suppiger, Edward W.

(with Chicurel, Ricardo) The reflection method in elasticity and bending of plates. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 629-638. (Z. Kączkowski) 31 #943

Suprun, N. N.

On the reconstruction of an analytic function from the values of its generalized Gel′fond derivatives at a point. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 806-809. (W. C. Royster) 29 #2367

Suprunenko, Dmitriĭ Alekseevič

(with Žavrid, G. P.) Intransitive nilpotent subgroups of a symmetric group. (Russian) *Dokl. Akad. Nauk BSSR* 2 (1958), 320-322. (P. A. Gol′dberg (RŽMat 1960 #149)) 41 #313

(with Tyškevič, R. I.) Dynamical transformations. (Russian) *Dokl. Akad. Nauk BSSR* 7 (1963), 289-292. (J. L. Brenner) 30 #3791

Minkowski's homomorphism. (Russian) *In Memoriam: N. G. Čebotarev (Russian), pp.* 89-92. *Izdat. Kazan. Univ., Kazan,* 1964. (R. Finkelstein) 33 #4151

On maximal commutative matrix algebras and maximal commutative matrix groups. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 425-428. (K. A. Hirsch) 29 #4808

Two theorems on matrix groups. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 491-494. (O. H. Kegel) 30 #172

Addendum to the paper "The kernel of a homomorphism". (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 621-622. (E. Schenkman) 31 #3509

On the conjugacy of matrices over a ring of residues. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 693-695. (B. Vinograde) 30 #3102

A similarity condition for matrices. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 5-6. (H. Schwerdtfeger) 30 #2021

(with Monastyrnyĭ, V. I.) The Sylow subgroups of the multiplicative group of a division ring. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 217-218. (E. Schenkman) 33 #4092

(with Petrova, G. L.) On systems of intransitivity for groups generated by prescribed substitutions. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 501-503. (F. Haimo) 34 #2675

(with Tyškevič, R. I.) Dynamic mappings and a class of determinate machines. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 2, 9-17. (Authors' summary) 34 #4070

Maximal nilpotent subgroups of the full linear group over the factor ring $Z/(p^m)$. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 598-607. (E. Schenkman) 30 #4839

Locally nilpotent matrix groups over an arbitrary field. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 614-622. (K. A. Hirsch) 33 #198

The kernel of a homomorphism. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 199-206. (E. Schenkman) 30 #3893

(with Monastyrnyĭ, V. I.) On Sylow subgroups of the multiplicative group of a division ring. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1382-1387. (J. D. Swift) 34 #5868

(with Matjuhin, V. I.) Solvable matrix groups over a Euclidean ring. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1965, *no.* 3, 5-9. (Authors' introduction) 41 #5508

(with Rusakov, S. A.; Safonov, S. A.) Sixtieth birthday and thirty years of pedagogical activity of Sergeĭ Antonovič Černihin. (Russian) *Finite Groups (Russian), pp.* 5-13. *Nauka i Tehnika, Minsk,* 1966. (Editors) 33 #2520

* (with Tyškevič, R. I.) Перестановочные матрицы. (Russian) [Commutative matrices] *Nauka i Tehnika, Minsk*, 1966. 104 *pp*. (R. F. Rinehart) 34 #1356

(with Kuncevič, I. M.) Minimum of linear form on an alternating group. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 145-147. (O. H. Kegel) 33 #1319

On locally nilpotent subgroups of the infinite symmetric group. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 302-304. (K. A. Hirsch) 33 #2709

(See also Berman, S. D.; Vol′vačev, R. T.; Kalužnin, L. A., 34 #17)

On primitive solvable subgroups of the infinite symmetric group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 1, 46-49. (L. G. Kovács) 34 #7629

(with Vol′vačev, R. T.) Linear groups. (Russian) *Algebra, Topology, Geometry*, 1965 *(Russian)*, *pp*. 45-61. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow*, 1967. (H. Salzmann) 36 #282

Sylow subgroups of the full linear group over the ring of p-adic integers. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 197-200. (V. Dlab) 34 #7669

The inclusion of the maximal commutative subgroups of GL(n,Δ) in the locally nilpotent subgroups of GL(n,Δ). (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 389-390. (K. Drbohlav) 36 #1551

(with Konjuh, V. S.) Maximal solvable subgroups of the unitary group. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 667-669. (L. G. Kovács) 36 #2711

The theory of commutative matrix algebras over an imperfect field. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 3, 9-19. (B. Vinograde) 36 #208

(with Tyškevič, R. I.) Contractible subgroups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 861-862. (K. A. Hirsch) 40 #4362

Irreducible parts of a reducible maximal locally nilpotent matrix group. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 527-532. (H. Salzmann) 37 #1487

On the theory of solvable linear groups. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 47-50. (K. Strambach) 40 #1487

The indecomposability of transitive subgroups of the group *SF(X)*. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 779-780. (F. Haimo) 40 #4350

On the theory of solvable linear groups. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1161-1172. (K. A. Hirsch) 40 #4381

Subgroups of the full linear group over a sfield D that contain the group U(n,D) of all special triangular matrices. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 305-308. (H. Salzmann) 43 #3354

The normalizer of an intransitive group. (Russian) *Dokl. Akad. Nauk BSSR* 15 (1971), 197-199. (L. Dornhoff) 44 #300

The stationary subgroup of a nilpotent permutation group. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 235-236. (L. Dornhoff) 43 #3332

Su Pu-ch'ing

On Demoulin transforms of projective minimal surfaces. IV. *Acta Math. Sinica* 8 (1958), 239-242 *(Chinese); translated as Chinese Math.-Acta* 8 (1966), 835-838 (1967). (Editors) 36 #7034

On Demoulin transforms of projective minimal surfaces. V. *Acta Math. Sinica* 8 (1958), 276-280 *(Chinese); translated as Chinese Math.-Acta* 8 (1966), 883-887 (1967). (Editors) 36 #7035

On certain couples of closed Laplace sequences of period four in ordinary space. *Acta Math. Sinica* 14 (1964), 151-174 *(Chinese); translated as Chinese Math.* 5 (1964), 165-193. (Editors) 29 #1589b

On two-sided multiply stratifiable couples of closed Laplace sequences. *Acta Math. Sinica* 14 (1964), 757-764 *(Chinese); translated as Chinese Math.-Acta* 6 (1965), 153-161. (B. d'Orgeval) 31 #6173

On certain couples of closed Laplace sequences of period four in ordinary space. *Sci. Sinica* 13 (1964), 347-374. (B. d'Orgeval) 29 #1589a

A characterization of a Euclidean metric as a Minkowski metric. *Shuxue Jinzhan* 7 (1964), 228-230. (Editors) 37 #3453

On pseudo-periodic sequences of Laplace in projective hyperspace. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 291-305. (M. Decuyper) 34 #5004

On multiply stratifiable couples of closed Laplace sequences. *Sci. Sinica* 14 (1965), 811-815. (B. d'Orgeval) 32 #8272

A proof and application of Barner's theorem. (Chinese) *Shuxue Jinzhan* 8 (1965), 417-420. (Y.-C. Wong) 35 #4829

Contributions to the theory of conjugate nets in projective hyperspace. VI. *Acta Math. Sinica* 16 (1966), 528-536 *(Chinese); translated as Chinese Math.-Acta* 8 (1966), 550-559. (P. Drăgilă) 35 #6060

Šur, M. G.

A localisation of the concept of an excessive function connected with a Markov process. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 7 (1962), 191-196. (P. Mandl (Zbl 109, 116)) 32 #4746

Additive functionals of Markov processes and excessive functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 123-146. (S. G. Ghurye) 33 #1892

Functions which are superharmonic for a Markov process. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 125-133. (S. G. Ghurye) 33 #1893

Linear differential equations with randomly perturbed parameters. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 783-806. (R. C. Gilbert) 33 #1556

Markov processes with transition probabilities majorized by those of the Wiener process. (Russian) *Trudy Moskov. Mat. Obšč.* 13 (1965), 324-346. (K. Krickeberg) 33 #3357

Markov processes with majorized hitting probabilities. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 260-282; *correction, ibid.* 11 (1966), 727-728. (G. E. Denzel) 34 #5165

Infinitesimal operators of Markov processes. *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 731-762. (G. E. Denzel) 36 #2228

Ergodic theorems for a class of Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 493-505. (F. L. Spitzer) 36 #2224

The Martin boundary for a certain class of Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 170-175. (D. A. Darling) 37 #5939

The behavior of coexcessive functions near the Martin boundary. I. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 269-283. (G. E. Denzel) 41 #9356

The behavior of coexcessive functions near the Martin boundary. II. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 445-451. (G. E. Denzel) 41 #9357

A compactness property of the family of functions that are harmonic with respect to a Markov process. (Russian) *Mat. Zametki* 7 (1970), 109-115. (I. Cuculescu) 41 #6307

Several remarks on adjoint Markov processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 108-115. (E. B. Dynkin) 42 #5327

The regular points of the Martin boundary. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 637-646. (G. E. Denzel) 43 #5615

Šur, M. S.

Theorem about third order invariants for irreducible representations of space groups. *Ž. Èksper. Teoret. Fiz.* 51 (1966), 1260-1262 *(Russian. English summary); translated as Soviet Physics JETP* 24 (1967), 845-846. (Author's summary) 35 #1709

Sur, S. P.

Vibration of inhomogeneous spherical shell of aeolotropic materials. *Indian J. Mech. Math.* 2 (1964), 6-9. (Author's summary) 29 #1800

Šura-Bura, M. R.

(with Sobel man, V. I.) Realization of recursive procedures in the *ALGOL*-60 language. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 303-316. (R. See) 29 #3009

(See also Naur, Peter, 32 #8539)

Suraganov, K. M.

Analytic form of solutions of a countable system of linear differential equations in a neighborhood of a pole. (Russian. Kazakh summary) *Vestnik Akad. Nauk Kazah. SSR* 22 (1966), *no.* 8 (256), 41-45. (P. C. Sikkema) 34 #2981

Surányi, Janos

An extension of Zermelo's method for proving unique factorization to polynomial rings. Note on the preceding paper of Mrs. E. Lánczi. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 8 (1965), 125-128. (D. S. Rim) 34 #2566

(with Domolki, Bálint; Makkai, Mihály; Ruzsa, Imre) The scientific work of Rózsa Péter. (Hungarian) *Mat. Lapok* 16 (1965), 171-184. 34 #5631

Farey series and continued fractions. (Hungarian. English summary) *Mat. Lapok* 16 (1965), 228-240. (P. Erdős) 35 #131

Reduction of the decision problem of the first order predicate calculus to reflexive and symmetrical binary predicates. *Period. Math. Hungar.* 1 (1971), *no.* 2, 97-106. (M. R. Krom) 44 #2569

Surányi, L.

The covering of graphs by cliques. *Syudia Sci. Math. Hungar.* 3 (1968), 345-349. (H. V. Kronk) 38 #76

Surányi, P.

(with Domokos, G.) On the behaviour of Green functions at small distances. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 107-114. (J. W. Moffat) 29 #6827

Singularities of the solution of the Bethe-Salpeter equation in the angular momentum plane. *Dokl. Akad. Nauk SSSR* 154 (1964), 317-320 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 66-68. (N. Nakanishi) 32 #3559

(with Domokos, G.) Bound states and analytic properties in angular momentum. *Nuclear Phys.* 54 (1964), 529-548. (R. Ingraham) 29 #3172

(with Domokos, G.; Vančura, A.) Fermi interactions at high energies. *Nuclear Phys.* 60 (1964), 1-16. (F. Calogero) 31 #4395

(with Kwiecinski, J.) On the analytic properties of the pion pion scattering amplitude in the complex angular momentum plane. *Phys. Lett.* 9 (1964), 283-286. (F. Calogero) 29 #1919

(with Kwieciński, J.) The Bethe-Salpeter equation in symmetric meson theory. *Acta Phys. Polon.* 27 (1965), 595-608. (N. Nakanishi) 32 #3539

(with Domokos, G.) Spontaneous symmetry breaking in quantum field theory. *Jadernaja Fiz.* 2 (1965), 501-511 *(Russian); translated as Soviet J. Nuclear Phys.* 2 (1966), 361-367. (R. F. Streater) 34 #5421

Süray, Saffet

On the Σ-monogenic functions. (Turkish summary) *Comm. Fac. Sci. Univ. Ankara Sér. A* 13 (1964), 17-25. (M. S. Robertson) 30 #2126

Surdin, Maurice

Étude de la distribution des masses des poussières interplanétaires et de celles des étoiles. *C. R. Acad. Sci. Paris* 258 (1964), 82-85. (D. Brouwer) 29 #3241

Sureau, Alain

Sur l'adjonction d'un potentiel de corrélation statistique aux équations de Hartree-Fock. *C. R. Acad. Sci. Paris* 260 (1965), 1348-1351. (H. W. Lewis) 31 #1998

Sureau, Hélène

* Cogroupes dans la catégorie des K-algèbres graduées associatives et connexes. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1969-1970, Publication No. 75. *Université de Montpellier, Montpellier,* 1970. iii + 62 *pp.* (J.-P. Jouanolou) 43 #2023

Surendran, P. U.

Association matrices and the Kronecker product of designs. *Ann. Math. Statist.* 39 (1968), 676-680. (I. M. Chakravarti) 39 #1059

Common treatments between blocks of certain partially balanced incomplete block designs. *Ann. Math. Statist.* 39 (1968), 999-1006. (T. V. Narayana) 37 #2383

Šurenkov, V. M.

Representation of an arbitrary random sequence by a Markov chain. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 3 (1970), 232-239. (B. Kronfeld) 43 #6982

Surgailis, D.

Stochastic equations. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 827-838. (E. B. Dynkin) 44 #1129

The uniqueness of the solution of K. Itô's stochastic equation. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 391-396. (D. A. Darling) 43 #5631

The stochastic equations of filtering of Markov processes. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 565-581. (S. Kullback) 43 #1370

Surin, Aline

* Étude du schéma fluide parfait et des équations de mouvement dans les théories pentadimensionnelles de Jordan-Thiry et de Kaluza-Klein. Mémorial des Sciences Mathématiques, Fasc. CLIX. *Gauthier-Villars & C*^{ie}*, Paris,* 1965. 137 *pp.* (N. Coburn) 32 #7203

Surin, S. S.

On the "replanning" problem. (Russian) *Metody Vyčisl.* 2 (1963), 91-94. (R. F. Rinehart) 32 #3873

Solution of problems of linear programming with a large number of zero elements in the initial simplex table. (Russian) *Optimal. Planirovanie Vyp.* 10 (1968), 69-80. 44 #7970

Surina, N. N.

Motions in two-dimensional spaces with centroprojective connection. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 181-196. (A. Goetz) 41 #2567

Suris, R. A.

On phase transitions in a model system. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1427-1436 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 961-966. (D. ter Haar) 32 #2140

Surjadnaja, V. G.

(with Slobodjan, Ju. S.) A certain property of Riemannian spaces that admit families of two-dimensional totally geodesic surfaces. (Russian) *Ukrain. Geometr. Sb. Vyp.* 8 (1970), 157-158. (M. Craioveanu) 44 #954

Surma, Stanisław J.

On the relation of formal inference and some related concepts. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 1 (1965), 37-55. 37 #1228

Logical structure of the concept of empirical magnitude. (Polish. English and Russian summaries) *Zeszty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 1 (1965), 57-74. 36 #4997

History of logical applications of the method of Lindenbaum's algebra. *An. Univ. Bucureşti Ser. Acta Logica* 10 (1967), 127-138. (J. Drabbe) 38 #3142

Indirect-deduction theorems. (Polish. Russian and English summaries) *Studia Logica* 20 (1967), 151-166. (R. C. Lyndon) 35 #1446

Theorems on deduction for descending implications. (Polish. English and Russian summaries) *Studia Logica* 22 (1968), 61-83. (J. Mycielski) 38 #4280

Four studies in metamathematics. (Polish. Russian and English summaries) *Studia Logica* 23 (1968), 79-114. (A. Oberschelp) 39 #3965

Some results in metamathematical non-effectiveness. (Polish summary) *Zeszyty Nauk Uniw. Jagiello. Prace z Logiki Zeszyt* 4 (1969), 31-37. (D. Pincus) 43 #3113

On the axiomatic treatment of the theory of models. I. Theory of models as an extension of Tarski's consequence theory. (Polish summary) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 4 (1969), 39-45. (J. N. Crossley) 41 #1521

The doctoral dissertation of Emil L. Post. (Polish. English summary) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 5 (1970), 65-70. (J. van Heijenoort) 44 #6439

Surovihin, K. P.

Application of variational methods to a plane problem in gas dynamics. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1963, *no.* 4, 56-63. (E. V. Laitone) 31 #4299

Exterior Cartan forms and the determination of the fundamental group admissible by a given system of equations. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 6, 70-81. (M. Pinl) 34 #474

Structural equations in the presence of an intransitive group in the case of general one-dimensional gas flows. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 1, 56-64. 34 #5385

Survila, P.

Asymptotic expansions for density functions. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 2, 177-191. (K. Balagangadharan) 30 #2537

A local limit theorem for density functions. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 4 (1964), 535-540. (W. Hoeffding) 31 #1701

Large deviations for densities. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 6 (1966), 591-600. (Harry I. Cohn) 36 #927

Asymptotic decompositions for the distribution function of a normalized sum of independent random variables. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 5 (1965), 143-155. (V. Petrov (RŽMat 1966 #1 V27)) 36 #4619

Large deviations in the local theorem for lattice random variables. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 8 (1968), 317-330. (W. Hoeffding) 39 #3564

Suryanarayan, E. R.

(with Kane, J.) Integrals of the second-order linear differential equation. *J. Mathematical Phys.* 6 (1965), 966-974. (H. Hochstadt) 31 #884

On the geometry of streamlines in hydromagnetic fluid flows when the magnetic field is along a fixed direction. *Proc. Amer. Math. Soc.* 16 (1965), 90-96. (R. P. Kanwal) 30 #1719

Intrinsic equations of rotational gas flows. *Israel J. Math.* 5 (1967), 118-126. (H. K. Cheng) 36 #1143

(with Kane, J.) Möbius transformations and a class of Riccati equations. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 395-401. (N. Hayek Calil) 41 #3852

On a class of flows in fluid dynamics. *SIAM J. Appl. Math.* 18 (1970), 596-600. (J. N. Kapur) 41 #4894

Suryanarayana, D.

Inequalities involving $\sigma(N)$, $d(N)$, $\phi(N)$ and their applications to odd perfect numbers. *Math. Student* 32 (1964), 87-95. (A. Gloden) 31 #2197

(with Rao, N. Venkateswara) On a paper of André Schinzel. *J. Indian Math. Soc. (N.S.)* 29 (1965), 165-167. (R. Spira) 34 #2521

On a paper of Karl K. Norton concerning odd perfect numbers. *Math. Student* 34 (1966), 97-101 (1967). (H. J. Godwin) 36 #5073

On the non-existence of odd perfect numbers of a certain form. *Math. Student* 35 (1967), 95-97 (1969). (L. D. Baumert) 40 #4189

Certain diophantine equation. *Math. Student* 35 (1967), 197-199 (1969). (R. Finkelstein) 40 #5539

On odd perfect numbers. III. *Proc. Amer. Math. Soc.* 18 (1967), 933-939. (A. Schinzel) 35 #5384

Asymptotic formula for $\sum_{n\leq x} \mu^2(n)/n$. *Indian J. Math.* 9 (1967), 543-545 (1968). (P. Barrucand) 40 #5564

The number of k-ary divisors of an integer. *Monatsh. Math.* 72 (1968), 445-450. (W. Schwarz) 38 #4428

Super perfect numbers. *Elem. Math.* 24 (1969), 16-17. (Editors) 38 #5706

The number and sum of k-free integers $\leq x$ which are prime to n. *Indian J. Math.* 11 (1969), 131-139. (S. L. Segal) 41 #6796

A generalization of Dedekind's ψ-function. *Math. Student* 37 (1969), 81-86. (H. J. Kanold) 42 #216

The greatest divisor of n which is prime to k. *Math. Student* 37 (1969), 147-157. (R. Alter) 42 #1752

Note on Liouville's λ- and Euler's ϕ-functions. *Math. Student* 37 (1969), 217-218. (E. Grosswald) 41 #8362

The number of unitary, square-free divisors of an integer. I, II. *Norske Vid. Selsk. Forh. (Trondheim)* 42 (1969), 6-13; *ibid.* 42 (1969), 14-21. (T. M. Apostol) 42 #5931

(with Sitaramachandra Rao, R.) The number of pairs of integers with L. C. M. $\leq x$. *Arch. Math. (Basel)* 21 (1970), 490-497. (E. M. Horadam) 43 #171

A property of the unitary analoque of Ramanujan's sum. *Elem. Math.* 25 (1970), 114. (W. H. Mills) 44 #2721

(with Hagis, Peter, Jr.) A theorem concerning odd perfect numbers. *Fibonacci Quart.* 8 (1970), *no.* 4, 337-346, 374. (H. W. Brinkmann) 42 #5895

Uniform *O*-estimates of certain error functions connected with *k*-free integers. *J. Austral. Math. Soc.* 11 (1970), 242-250. (L. Carlitz) 41 #6797

Extensions of Dedkind's ψ-function. *Math. Scand.* 26 (1970), 107-118. (D. Rearick) 41 #6798

Semi-*k*-free integers. *Elem. Math.* 26 (1971), 39-40. (R. Alter) 44 #147

(with Sitaramachandra Rao, R.) On the order of the error function of the *k*-free integers. *Proc. Amer. Math. Soc.* 28 (1971), 53-58. (T. M. Apostol) 42 #5927

Suryanarayana, K. V.

Partial difference sets and partially balanced weighing designs with three association classes. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 463-471. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (T. Storer) 44 #3891

Partially balanced weighing designs with two association classis. *Ann. Math. Statist.* 42 (1971), 1316-1321. 44 #4849

Suryanarayana, P.

(with Shah, S. M.) Approximation of continuous functions by power series with polynomial coefficients. *Numer. Math.* 7 (1965), 420-425. (G. Meinardus) 33 #6220

The higher order differentiability of solutions of abstract evolution equations. *Pacific J. Math.* 22 (1967), 543-561. (J. Gil de Lamadrid) 37 #554

Suryanarayana Murty, I. See Murty, I. S. N.

Šurygin, V. A.

Non-trivial constructive mappings of certain sets. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 40-42. (G. Asser) 34 #57

Constructive sets with equality and their mappings. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 54-57. (E. M. Fels) 35 #1478

Complete constructive sets with equality, and some of their properties. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 8 (1968), 272-280. (G. Asser) 40 #5448

Šušbaev, S.

(with Nagmetžanov, K.) A generalized complete orthonormal system in the space $L_2[0,1]$. (Russian) *Voprosy Vyčisl. Mat. Tehn. Vyp.* 1 (1964), 88-92. (J. E. Cigler) 37 #683

(with Nagmetžanov, K.) A generalized orthonormal sequence. (Russian) *Voprosy Vyčisl. Mat. Tehn. Vyp.* 5 (1965), 13-21. (S. Verblunsky) 33 #6271

Absolute and uniform convergence of certain orthogonal series of N. P. Romanov. (Russian) *Voprosy Vyčisl. Mat. Tehn. Vyp.* 5 (1965), 22-32. (S. Verblunsky) 33 #6279

Certain questions that are connected with the construction of a continuous function by means of its *v*th primitive. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 4, 39-44. (J. Németh) 44 #5692

Suschowk, Dietrich K.

Difference analogues of Green's identities for grids in R^n. *Numer. Math.* 6 (1964), 200-210. (L. Collatz) 29 #6645

Suščinskiĭ, M. M.

(with Zubov, V. A.; Šuvalov, I. K.) Stimulated Raman scattering of light. *Uspehi Fiz. Nauk* 83 (1964), 197-222 *(Russian); translated as Soviet Physics Uspekhi* 7 (1964), 419-433. (J. F. Ward) 31 #4334

Susea, Andrei A.

(with Stănciulescu, F.) Sur l'existence et l'unicité de la solution d'une équation hyperbolique de l'électrodynamique des milieux non-linéaires. *Bul. Inst. Politehn. Bucureşti* 28 (1966), *no.* 3, 21-27. (P. L. E. Uslenghi) 34 #8731

A new boundary problem for the heat equation in two independent variables. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 731-739. (R. N. Goss) 35 #589

A generalization of the homogeneous Riemann problem. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 155-161. (From the author's summary) 39 #1667

Sushchinskiĭ, M. M. See Suščinskiĭ, M. M.

Sushko, V. N. See Suško, V. N.

Suškevič, T. A.

(with Maslennikov, M. V.) Asymptotic properties of the solution of the characteristic equation of the transport theory of radiation in strongly absorbent media. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 23-34. (L. B. Rall) 29 #1876

Suško, V. G.

The error of approximate solutions of the Cauchy problem for a first order quasilinear equation. (Russian) *Mat. Zametki* 8 (1970), 309-320. (S. Burýšek) 43 #4269

Suško, V. N.

(with Zav′jalov, O. I.) A class of representations of canonical commutation relations in quantum field theory. *Dokl. Akad. Nauk SSSR* 183 (1968), 56-59 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 1107-1100. (R. F. Stora) 40 #6894

Susloparova, G. P.

Certain metric concepts of differential geometry in an Appel space of type $A\bar{p}_3$. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 149-166. (E. Vamanu) 43 #5432

A space whose absolute is a triangle in the ideal plane. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 167-204. (E. Vamanu) 43 #5404

Four-dimensional space with fourth order absolute. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 61 (1969), *vyp.* 2, 205-253. (E. Vamanu) 44 #4628

Differential invariants on a plane of the space $A\bar{p}_3$. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 74 (1970), 3-11. (E. Vamanu) 44 #3233a

Differential invariants of a surface in the space $A\bar{p}_3$. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 74 (1970), 12-23. (E. Vamanu) 44 #3233b

A connection between the curvature of a surface and its spherical representation in an Appel space of hyperbolic type. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 93 (1971), 3-6. (E. Vamanu) 44 #2145

Suslov, G. K.

(See Švareman, A. P., 32 #7388 and Putjata, T. V.; Fradlin, B. N., 32 #7387)

de Suso Barba, José

(with Picinbono, Bernard) Sur une généralisation du filtrage optimal en détection-intégration. *C. R. Acad. Sci. Paris* 259 (1964), 290-293. (Authors' summary) 29 #2116

(with Picinbono, Bernard) Filtrage optimal et corrélation. *C. R. Acad. Sci. Paris* 259 (1964), 2581-2584. (L. L. Campbell) 30 #3778

Süss, Wilhelm

(See Gericke, Helmuth, 37 #2566)

Susskind, L.

(with Rajaraman, R.) Overlapping channels and multichannel phenomena. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1201-1219. (J. M. Charap) 33 #5249

Dual-symmetric theory of hadrons. I. (Italian and Russian summaries) *Nuovo Cimento A* (10) 69 (1970), 457-496. (J. Ławrynowicz) 42 #8813

(with Frye, G.; Lee, C. W.) Dual-symmetric theory of hadrons. II. Baryons. (Italian and Russian summaries) *Nuovo Cimento A* (10) 69 (1970), 497-507. (J. Ławrynowicz) 42 #8814

Sussman, D.

(with Connell, I.) The *p*-dimension of class groups of number fields. *J. London Math. Soc.* (2) 2 (1970), 525-529. (G. Whaples) 41 #8376

Sussman, Irving

Metrization of the mass distribution space in terms of energy. *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 143-155. (F. J. Almgren, Jr.) 32 #1365

Sussman, Héctor J.

Non-spectrality of a class of second order ordinary differential operators. *Comm. Pure Appl. Math.* 23 (1970), 819-840. (R. R. D. Kemp) 41 #9055

* Hilbert's tenth problem. Revísta Colombiana de Matemáticas, Monografias Matemáticas, 9. *Departamento de Matemáticas y Estadística, Facultad de Ciencias, Universidad Nacional de Colombia; Sociedad Colombiana de Matemáticas, Bogotá,* 1971. iv + 69 *pp.* (G. Kreisel) 43 #4669

Šustikov, V. M.

Investigation of the behavior of the trajectories of a homogeneous differential equation. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 167-170. (M. Urabe) 42 #6338

Šustval′, V. G.

A certain equation in functional derivatives. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 6, 3-8. (Author's summary) 42 #3878

Šušurin, S. F.

Approximate solution of ordinary differential equations by linearization. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1962, *no.* 6, 3-8. (B. A. Fleishman) 30 #5017

Suszko, Roman

Syntactic structure and semantical reference. II. (Polish and Russian summaries) *Studia Logica* 9 (1960), 63-93. (Ju. A. Gastev (RŽMat 1961 #5 A88)) 34 #4106

Concerning the notion of logical schemes, the notion of logical calculus and the role of consequence relations. (Polish and Russian summaries) *Studia Logica* 11 (1961), 185-216. (G. Kreisel) 33 #5450

A note concerning the rules of inference for quantifiers. *Arch. Math. Logik Grundlagenforsch.* 7, 124-127 (1965). (R. W. Ritchie) 34 #5647

Noncreativity and translatability in terms of intension. *Logique et Analyse (N.S.)* 9 (1966), 360-363. (J. R. Shoenfield) 34 #7355

(with Kraszewski, Z.) Studies on the concept of class. I. Normal and non-normal classes in natural language. (Polish. English and Russian summaries) *Studia Logica* 19 (1966), 127-146. 38 #2004

A proposal concerning the formulation of the infinitistic axiom in the theory of logical probability. *Colloq. Math.* 17 (1967), 347-349. (J. E. Fenstad) 36 #4595

An essay in the formal theory of extension and of intension. (Polish and Russian summaries) *Studia Logica* 20 (1967), 7-36. (H. B. Curry) 35 #6531

Non-Fregean logic and theories. *An. Univ. Bucureşti Acta Logica* 11 (1968), 105-125. (B. Lercher) 44 #2575

Ontology in the *Tractatus* of L. Wittgenstein. *Notre Dame J. Formal Logic* 9 (1968), 7-33. (G. Kreisel) 39 #49

(with Lewandowski, Henryk) A note concerning the theory of descriptions. (Polish and Russian summaries) *Studia Logica* 22 (1968), 51-56. (B. Lercher) 38 #4295

(with Kraszewski, Z.) Studies on the concept of class. II. Normal and non-normal classes and the set-theoretical and the mereological concept of class. (Polish. English and Russian summaries) *Studia Logica* 22 (1968), 85-97. 38 #2005

(with Bloom, S. L.; Brown, D. J.) Some theorems on abstract logics. *Algebra i Logika* 9 (1970), 274-280. (I. Petrescu) 44 #43; erratum, 44, p. 1632

(with Bloom, S. L.; Brown, D. J.) A note on abstract logics. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 109-110. (E. Mihailescu) 42 #7487

Şutac, Ioan

Group of invariance of a geometric object $\Omega^{\wedge}(x,\dot{x})$. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 25-31. (Author's summary) 39 #2083

Sutcliffe, Alan

The factors of $N!$. *Math. Gaz.* 50 (1966), 34-35. 33 #1277

Integers that are multiplied when their digits are reversed. *Math. Mag.* 39 (1966), 282-287. (B. M. Stewart) 35 #123

Sutcliffe, J. P.

A probability model for errors of classification. I. General considerations. *Psychometrika* 30 (1965), 73-96. (G. Elfving) 33 #838

Suter, Ulrich

* Schnittflächen komplexer Stiefel-Mannigfaltigkeiten. Abhandlung zur Erlangung der Würde eines Doktors der Mathematik der Eidgenössischen Technischen Hochschule, Zürich. Dissertation No. 4150. *Juris Verlag, Zürich,* 1968. iv + 37 *pp.* (K. Lamotke) 39 #4869

Die Nicht-Existenz von Schnittflächen komplexer Stiefel-Mannigfaltigkeiten. *Math. Z.* 113 (1970), 196-204. (K. Lamotke) 42 #1137

(with Sigrist, François) Sur l'associativité homotopique des H-espaces de rang 2. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A890-A892. (A. H. Copeland, Jr.) 44 #5960

Sutera, S. P.

Second-order forces and pressure distributions on three-dimensional bodies by reverse-flow integral method. *AIAA J.* 3 (1965), 441-450. (M. D. Van Dyke) 32 #1997

Vorticity amplification in stagnation-point flow and its effect on hear transfer. *J. Fluid Mech.* 21 (1965), 513-534. (C. R. Illingworth) 31 #2920

Sutherland, C. D.

Footnote to the evaluation of certain complex elliptic integrals. *Math. Comp.* 19 (1965), 132-133. (M. D. Friedman) 30 #1602

Sutherland, J. W.

(with Bohn, E. V.) The numerical solution of control optimization problems by a systematic search in initial costate space. *IEEE Trans. Automatic Control* AC-14 (1969), 542-547. (Authors' summary) 42 #9002

Sutherland, W. A.

A note on the parallelizability of sphere-bundles over spheres. *J. London Math. Soc.* 39 (1964), 55-62. (M. A. Kervaire) 30 #5327

Homotopy-smooth sphere fibrings. *Bol. Soc. Mat. Mexicana* (2) 10 (1965), 73-79. (J. P. Levine) 35 #7342

A note on almost complex and weakly complex structures. *J. London Math. Soc.* 40 (1965), 705-712. (E. Dyer) 33 #6654

Fibre homotopy equivalence and vector fields. *Proc. London Math. Soc.* (3) 15 (1965), 543-556. (M. Mahowald) 31 #763

The fibre homotopy enumeration of non-stable sphere bundles and fibrings over real projective space. *J. London Math. Soc.* (2) 1 (1969), 693-704. (J. W. Rutter) 40 #3546

Sutherland, W. R.

(with Gale, David) Analysis of a one good model of economic development. *Mathematics of the Decision Sciences, Part* 2, *pp.* 120-136. *American Mathematical Society, Providence, R. I.,* 1968. (M. J. Beckmann) 38 #5457

Šut′ko, A. V.

Statistical theory of turbulence. *Dokl. Akad. Nauk SSSR* 158 (1964), 1058-1060 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 857-859. (H. W. Wyld, Jr.) 31 #6471

Šutov, È. G.

Embeddings of semigroups into simple and complete semigroups. (Russian) *Mat. Sb. (N.S.)* 62(104) (1963), 496-511. (F. Šik) 30 #2100

Potential divisibility in commutative semigroups and rings. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 162-168. (P. M. Cohn) 29 #2315

Embedding of semigroups into simple semigroups with one-sided division. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 143-148. (P. M. Cohn) 29 #5945

Translations of semigroups. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 215-218. (K. Drbohlav) 29 #5946

On certain imbeddings of semigroups with a cancellation law. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 167-180. (K. Drbohlav) 32 #2500

Potential invertibility of elements of some semigroups of transformations. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 3-16. (H.-J. Hoehnke) 32 #5768

Imbedding of semigroups. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 217-230. *Tartu. Gos. Univ., Tartu,* 1966. (R. J. Warne) 34 #267

On semigroups with one-sided cancellation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 2 (51), 137-147. (S. Lajoš) 33 #5773

Potential invertibility of elements of semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 153-163. (S. Lajos) 33 #7447

Certain imbeddings of ordered groups. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 302-305. (S. P. Bandyopadhyay) 35 #101

Some imbeddings of rings. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 276-280. (S. E. Dickson) 37 #241

} Certain imbeddings of categorial semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 9 (100), 98-105. (L. Bokut′) 44 #351

Commutative semigroups with single element normal subsemigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 7 (110), 113-121. (L. Potemkin) 44 #6884

Šutova, L. P.

On a certain generalization of the algorithm of continued fractions. (Russian) *Mari. Gos. Ped. Inst. Učen. Zap.* 26 (1965), 487-497. (T. T. Tonkov) 33 #6193

A generalization of an algorithm of continued fractions and its application to the approximate evaluation of certain functions. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 406-413. (J. Albrycht) 35 #5802

The convergence of certain sequences that are connected with the N-algorithm (a generalization of the algorithm of continued fractions). (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 330-335. (I. Šelihova (RŽMat 1969 #1 B791)) 43 #3680

Sutter, J.

(See Malécot, Gustave, 41 #9596)

Sutter, Johann

(with Pfluger, Albert) Riemannsche Flächen vom hyperbolischen Typus, erzeugt durch Asymmetrien. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*), (Russian), pp.* 253-257. *Izdat. "Nauka", Moscow,* 1966. (L. Sario) 34 #6077

Šütti, Juraj

A priori accuracy of reading on nomograms with three parallel carriers of scales. (Slovak. Russian and German summaries) *Apl. Mat.* 9 (1964), 194-205. (H. Schwerdtfeger) 32 #1927

Sutton, W. G.

(with George, J. H.) Application of Liapunov theory to boundary value problems. *Proc. Amer. Math. Soc.* 25 (1970), 666-671. (T. Yoshizawa) 41 #5725

Suttorp, L. G.

(with de Groot, S. R.) Covariant derivation of the Maxwell equations. Multipole expansion of the polarization tensor to all orders. *Physica* 31 (1965), 1713-1727. (PA 69 #6362) 34 #5397

(with de Groot, S. R.) Covariant equations of motion for a charged particle with a magnetic dipole moment. (Italian and Russian summaries) *Nuovo Cimento A* (10) 65 (1970), 245-274. (S. Deser) 40 #8400

Suura, Hiroshi

(with Bardakci, K.; Bolsterli, M.) Bethe-Salpeter equation for triplet amplitude in intermediate-vector-boson theory of weak interactions. *Phys. Rev.* (2) 133 (1964), B1273-B1275. (Authors' summary) 33 #1042

(with Otokozawa, Jun) Large t limit of Compton scattering of a scalar photon by a scalar nucleon in perturbation expansion. *Progr. Theoret. Phys.* 33 (1965), 1098-1106. (P. G. Federbush) 32 #2064

(The sign } indicates an entry in the supplement.)

Šuvalov, I. K.

(with Zubov, V. A.; Suščinskiĭ, M. M.) Stimulated Raman scattering of light. *Uspehi Fiz. Nauk* 83 (1964), 197-222 *(Russian); translated as Soviet Physics Uspekhi* 7 (1964), 419-433. (J. F. Ward) 31 #4334

Šuvalova, È. Z.

* (with Demidovič, B. P.; Maron, I. A.) Metody numeryczne. Część II: Przybliżanie funkcji równania różiczkowe i całkowe. (Polish) [Numerical methods. Part II: Approximation of functions, differencial and integral equations] Translated from the Russian by A. Pol and A. Szymanowski. *Państwowe Wydawnictwo Naukowe, Warsaw*, 1965. 345 *pp. (errata insert)* (E. Seiden) 34 #8610

* (with Demidovič, B. P.; Maron, I. A.) Численные методы анализа: Приближение функций, диффеpинциальные и интегральные уравнения. (Russian) [Numerical methods in analysis: Approximation of functions, differential and integral equations] Third revised edition. *Izdat. "Nauka", Moscow*, 1967. 368 *pp.* (Editors) 36 #1882

* (with Demidovič, B. P.; Maron, I. A.) Numerische Methoden der Analysis. Von Wolfgang Schmidt aus dem Russischen übersetzt. Mathematik für Naturwissenschaft und Technik, Band 14. *VEB Deutscher Verlag der Wissenschaften, Berlin*, 1968. 420 *pp.* (Editors) 39 #1071

Süveges, M.

Theory of congruence in gravitational fields. I. Red shift and geodescis from the same theorem. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 20 (1966), 41-50. (W. Rindler) 33 #2375

Theory of congruence in gravitational fields. II. The possible cosmological origin of the group $L_{+}^{\uparrow}$. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 20 (1966), 51-58. (W. Rindler) 33 #2376

Theory of congruence in gravitational fields. III. Space inversion and gravitation. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 22 (1966), 273-284. (W. Rindler) 33 #2377

Linear groups and gravitation and the possible cosmological origin of $L_{+}^{\uparrow}$. *Phys. Lett.* 20 (1966), 265-266. (R. L. Ingraham) 32 #8996

Suveĭka, I. V.

The exterior boundary value problem for an operator which decomposes into Helmholtz operators. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1667-1675. (L. Arkeryd) 38 #3624

Solution by the potential method of the exterior boundary value problem for an operator which decomposes into Helmholtz operators. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 138-148. (A. Haimovici) 41 #7284

The solvability of the exterior Dirichlet problem for the *m*-metaharmonic equation. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 240-244. (F. Barański) 41 #7285

The solvability of the exterior Dirichlet problem for elliptic equations. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 3 (17), 159-171. (P. Szeptycki) 43 #7770

Suvernev, V. G.

Small eigen-vibrations of three-layer shells of revolution. (Russian) *Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk* 1964, *no.* 2, 93-98. (J. Hubert Wilkinson) 29 #6700

Suvorčenkova, G. A.

(with Levitan, B. M.) Sufficient conditions for discreteness of the spectrum of a Sturm-Liouville equation with operator coefficient. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 56-62. (V. Šeda) 37 #6782

Suvorov, G. D.

The "length and area principle" for interior *Q*-quasiconformal mappings. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 169 (1963), 18-23. (F. W. Gehring) 31 #347

(with Suvorov, G. D.) Transformations of the Dirichlet integral and space mappings. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 523-526. (F. W. Gehring) 30 #1242

Metric properties of planar univalent mappings of closed regions. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 802-805. (E. Reich) 29 #5999

A fundamental theorem on boundary correspondence for a sequence of topological mappings of class BL_k of plane regions. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1152-1162. (G. Piranian) 29 #4898

On the uniform convergence of a sequence of planar topological mappings of class BL_k. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 175 (1964), *vyp.* 2, 12-22. (D. Gaier) 30 #4922

On the continuous convergence in the closed kernel of a sequence of mappings of class BL_k of planar domains to a Jordan domain. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 175 (1964), *vyp.* 2, 23-28. (D. Gaier) 30 #4923

* Семейства плоских топовогических отображений. (Russian) [Families of plane topological mappings] *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk*, 1965. 265 *pp. 9errata insert)* (P. Caraman) 33 #7570

(with Ovčinnikov, I. S.) Transformations of the Dirichlet integral and space mappings. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1292-1314. (E. Reich) 34 #356

(with Baklanov, M. V.) On the closure of certain classes of mappings with respect to uniform convergence. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 182 (1965), *vyp.* 3, 3-14. (F. W. Gehring) 34 #2868

(with Baklanov, M. V.) The distortion of relative distances in closed regions under topological mappings of the class *BL(Λ)* with respect to a conformally-invariant metric. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 182 (1965), *vyp.* 3, 15-26. (P. Caraman) 34 #6080

Metric properties of plane univalent mappings of closed regions. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 182 (1965), *vyp.* 3, 46-58. (P. Caraman) 33 #4251

(with Kuzik, G. A.) Extended concept of the quasiconformality of a plane mapping and linear systems of differential equations of mixed type. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 280-283. (S. B. Agard) 34 #2870

(with Gallo, V. F.) Monogeneity sets of differentiable plane ring mappings. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 103-106. (J. Ławrynowicz) 37 #2953

(with Kuzik, G. A.) An extended concept of quasiconformality, and systems of differential equations of mixed type. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 112-141. (P. Caraman) 41 #2000

Uniform stability of conformal mappings of closed domains. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 78-84. (D. A. Brannan) 36 #6599

(See also Aleksandrov, I. A.; Billĭ, V. Ī.: Gutljanskiĭ, V. Ja.; Daniljuk, Ī. Ī.; Lopatinskiĭ, Ja. B., 39 #2591)

(with Luferenko, V. P.) Families of homeomorphisms that are uniformly equivontinuous with respect ot metrics. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 30-33. (E. Halfar) 41 #7650

(with Luferenko, V. P.) The concept of the body of a prime end in Carathéodory's theory. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1971, 106-108, 186. (J. G. Krzyż) 44 #7519

Suvorov, Ju. P.

On the propagation of elastic-plastic waves during heating of a semi-infinite bar. *Prikl. Mat. Meh.* 28 (1964), 91-98 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 103-112. (S. C. Hunter) 30 #4439

Suvorov, N. M.

A certain sufficient condition for complete regularity of topological loops. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 2 (12), 152-155. (G. E. Dimitroff) 41 #1912

Suvorov, N. P.

(with Masičuk, A. S.) On the question of error statistics in communication channels when transmitting discrete signals. (Russian) *Radiotehn. (Har'kov) Vyp.* 5 (1967), 32-38. (M. Peschel) 41 #6611

Suwa, Tatsuo

On ruled surfaces of genus 1. *J. Math. Soc. Japan* 21 (1969), 291-311. (W. S. Piper) 39 #3531

On hyperelliptic surfaces. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 469-476 (1970). (M. Schneider) 42 #2035

Suyama, Yoshihiko

On a problem proposed by Eells-Sampson. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 305-315. (J. Eells) 42 #6754

Suyama, Yukio

(with Ono, Akira) On the Cauchy problem of the linear elliptic partial differential equations. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 15 (1961/62), 171-177. (L. M. Sibner) 29 #2524

Suyambulingom, C.

(with Sankaranarayanan, G.) Some renewal theorems concerning a sequence of correlated random variables. *Pacific J. Math.* 30 (1969), 785-803. (M. M. Siddiqui) 40 #2169 (E)

(with Sankaranarayanan, G.) Correction to: "Some renewal theorems concerning a sequence of correlated random variables". *Pacific J. Math.* 35 (1970), 805. (Editors) 42 #8579

Suyaršaev, J. M. See Sujaršaev, J. M.

Suydam, Mary M.

(with Myers, Jerome L.; Gambino, Blase) Contingent gains and losses in a risk-taking situation. *J. Mathematical Psychology* 2 (1965), 363-370. (R. F. Gundy) 31 #3234

Suždjute, D. P. See Sūdžiūtė, D.

Suzikov, G. V.

(with Marčenko, V. A.) The second boundary value problem in regions with a complex boundary. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 35-60. (P. C. Fife) 36 #410

The third boundary value problem in regions with a composite boundary. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 135-150. (T. Styš) 35 #5781

(with Hruslov, E. Ja.) An averaged boundary condition for a diffusion problem in a region with piecewise semipermeable boundary. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 4 (1967), 146-161. (T. Styš) 37 #6615 (with Hruslov, E. Ja.) The passage of sound waves across thin channels in a reflecting layer. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 5 (1967), 140-156. (L. Dragoş) 37 #7138

Suzuki, Atsuyuki

(with Noguchi, Shoichi; Oizumi, Juro) A consideration on the structure of multistage logical networks. *Electron. Commun. Japan* 51 (1968), *no.* 7, 148-157. (B. Hazeltine) 40 #8511

(with Noguchi, Shoichi; Oizumi, Juro) The properties and synthesis of $(m + 1, 1)$-type cellular cascades. *Electron. Commun. Japan* 52 (1969), *no.* 4, 132-141. (B. Hazeltine) 43 #1757

(with Noguchi, Shoichi; Oizumi, Juro) The capability of Boolean-function realization by the $(m + 1, 1)$-type multistage logical networks. *Electron. Commun. Japan* 52 (1969), *no.* 8, 121-128. (P. Vondráček) 43 #4568

Suzuki, G.

(with Saaty, T. L.) A nonlinear programming model in optimum communication satellite use. *SIAM Rev.* 7 (1965), 403-408. (H. Künzi) 32 #1019

Suzuki, Giitiro

On a functional transform. *Ann. Inst. Statist. Math.* 15 (1963), 159-165. (B. Brainerd) 30 #2301

A consistent estimator for the mean deviation of the Pearson type distribution. *Ann. Inst. Statist. Math.* 17 (1965), 271-285. (H. L. Seal) 33 #6750

On the absolute central moments. I. (Japanese. English summary) *Proc. Inst. Statist. Math.* 12 (1964/65), 225-241. 32 #1794

On the Glivenko-Cantelli theorem. *Ann. Inst. Statist. Math.* 18 (1966), 29-37. (J. Wolfowitz) 33 #6661 (E)

Discrete compound decision problem. *Ann. Inst. Statist. Math.* 18 (1966), 127-139. (T. S. Ferguson) 35 #3830

Corrections to: "On the Glivenko-Cantelli theorem". *Ann. Inst. Statist. Math.* 18 (1966), 381. (Editors) 34 #3600

On exact probabilities of some generalized Kolmogorov's *D*-statistics. *Ann. Inst. Statist. Math.* 19 (1967), 373-388. (I. Guttman) 36 #4674

Kolmogorov-Smirnov tests of fit based on some general bounds. *J. Amer. Statist. Assoc.* 63 (1968), 919-924. (From the author's summary) 37 #7057

Suzuki, Haruo

On spheres imbedded in compact differentiable manifolds. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 17 (1963), 192-199. (A. Haefliger) 29 #2812

Remarks on the multiplications in Postnikov systems. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 17 (1963), 200-201. (W. D. Barcus) 29 #4061

Correction to: "An approximation of convex polyhedra by C^∞-manifolds in a Euclidean space R^n". *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 118-119. (Editors) 29 #4065

Operations in *KO*-theory and products of real projective spaces. *Mem, Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 140-153. (R. Bott) 31 #761

Characteristic classes of some higher order tangent bundles of complex projective spaces. *J. Math. Soc. Japan* 18 (1966), 386-393. (M. W. Hirsch) 35 #3698

Bounds for dimensions of odd order nonsingular immersions of RP^n. *Trans. Amer. Math. Soc.* 121 (1966), 269-275. (R. Bott) 33 #733

(with Koshikawa, Hiroaki) On the topology of some almost contact manifolds. *J. Fac. Sci. Hokkaido Univ. Ser. I* 20 (1969), 160-170. (A. Gray) 39 #3521

Higher order non-singular immersions in projective spaces. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 33-44. (E. A. Feldman) 39 #2170

$U(n) \times 1$-structures of tangent bundles. *Sem. on Contact Manifolds (Kyoto, 1969), pp.* 75-83. *Publications of the Study Group of Geometry, Vol.* 4. *Dept. Math., Okayama Univ., Okayama,* 1970. (P. Molino) 43 #2634

Suzuki, Humio

Analytic-hypoelliptic differential operators of first order in two independent variables. *J. Math. Soc. Japan* 16 (1964), 367-374. (S. Mizohata) 32 #7943

Improving estimates for differential operators in two independent variables. *Publ. Res. Inst. Math. Sci.* 5 (1969/70), 287-299. (M. K. V. Murthy) 41 #8801

Local existence and analyticity of hyperfunction solutions of partial differential equations of first order in two independent variables. *J. Math. Soc. Japan* 23 (1971), 18-26. (P. Schapira) 42 #8053

Suzuki, Jingoro

Some generalizations of collectionwise normality. *J. Nara Gakugei Univ. Natur. Sci.* 14 (1966), 1-6. (Z. Frolík) 35 #962

On a theorem for *M*-spaces. *Proc. Japan Acad.* 43 (1967), 610-614. (E. Michael) 36 #5893

Paracompactness of product spaces. *Proc. Japan Acad.* 45 (1969), 457-460. (R. Engelking) 41 #1004

Suzuki, Junji

On Picard values of algebroid functions in a neighbourhood of a totally disconnected compact set. *Nagoya Math. J.* 40 (1970), 1-12. (N. Toda) 42 #7903

On asymptotic values of slowly growing algebroid functions. *Nagoya Math. J.* 41 (1971), 135-148. (N. Toda) 43 #2227

Suzuki, Kazumasa

On eigenvalue problems. I, II, III, IV. (Japanese) *Kenkyû Kiyô-Gakushûin Kôtôka No.* 2, 26-76 (1966); *ibid. No.* 3, 7-42 (1967); *ibid. No.* 4, 9-32 (1969); *ibid. No.* 5, 4-50 (1971). (Teruo Ikebe) 43 #6580

The first boundary value problem and the first eigenvalue problem for the elliptic equations degenerate on the boundary. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 299-335. (Moshe Marcus) 38 #412

The first boundary value and eigenvalue problems for degenerate elliptic equations. I. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 179-200. (Moshe Marcus) 40 #544

The first boundary value and eigenvalue problems for degenerate elliptic equations. II. *Funkcial. Ekvac.* 12 (1969), 123-147. (Moshe Marcus) 41 #8853

The eigenvalue problem in unbounded domains. *Funkcial. Ekvac.* 12 (1969/70), 227-232. (K. Kreith) 41 #2241

The Dirichlet problem for degenerate elliptic equations in unbounded domains. *Kenkyû Kiyô—Gakushûin Kôtôka No.* 5, 51-62 (1971). (Z. C. Motteler) 44 #613

Suzuki, Kazuo

(with Hirabuki, Shinkichi; Matsuda, Ryûki) Notes on the duality theorem of compact groups. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 7 (1968), *no.* 1, 1-4. (I. Schochetman) 42 #426

On the character ring of representations of a compact group. *Tôhoku Math. J.* (2) 20 (1968), 38-45. (S. Sankaran) 37 #4206

A note on a theorem of E. Cartan. *Tôhoku Math. J.* (2) 23 (1971), 17-20. (T. Kambayashi) 44 #6711

Suzuki, Mahiko

Selection rules and some relations in W_3 symmetry. *Phys. Rev.* (2) 136 (1964), B272-B274. (D. B. Lichtenberg) 31 #1987

Weak interactions and self-consistent theories. *Phys. Rev.* (2) 136 (1964), B769-B773. (K. Nishijima) 31 #6581

Parity-violating amplitudes of nonleptonic decays in SU_6 symmetry. *Phys. Lett.* 14 (1965), 64-66. (S. P. Rosen) 32 #7001

SU(6) and deviations from the $\Delta I = 1/2$ rule in the nonleptonic hyperon decays. *Phys. Rev.* (2) 140 (1965), B1405-B1406. (R. Gatto) 33 #1051

Consequences of current commutation relations in the nonleptonic hyperon decays. *Phys. Rev. Lett.* 15 (1965), 986-989. (Jean Nuyts) 33 #1052

A relativistic SU_6 symmetry scheme. *Progr. Theoret. Phys.* 33 (1965), 850-853. (Bunji Sakita) 32 #3655

(with Kawarabayashi, Ken) Partially conserved axial-vector current and the decays of vector mesons. *Phys. Rev. Lett.* 16 (1966), 255-257; *erratum, ibid.* 16 (1966), 384. (S. N. Biswas) 32 #8809

Suzuki, Masaaki

Note on Hartogs domains. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 23-30. (M. Herrera) 37 #4286

(with Adachi, Kenzō) Extension of holomorphic mappings. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 238-241. (J. Kajiwara) 42 #4765

(with Adachi, Kenzō; Yoshida, Mamoru) Cousin-II domains and domains of holomorphy. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 242-248. (H. B. Laufer) 43 #3484

Suzuki, Masayuki

(with Sugiura, Ichiro) On the performance index variation due to large change of plant parameters in optimal control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 421-432. (Authors' summary) 42 #4277

(with Sugiura, Ichiro) On parameter sensitivity and local invariance. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 201-207. (Authors' summary) 42 #4246

(with Sugiura, Ichiro) A condition for closed-loop control configuration of certain non-linear systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 307-312. (Authors' summary) 42 #4279

On the Stiefel-Whitney numbers of spin manifold. *Res. Rep. Nagaoka Tech. College* 5 (1969), 9-12. (J. C. Becker) 40 #2109

Suzuki, Masuo

A theorem on the exact solution of a spin system with a finite magnetic field. *Phys. Lett.* 18 (1965), 233-234. (G. A. Baker, Jr.) 32 #961

Generalized exact formula for the correlations of the Ising model and other classical systems. *Phys. Lett.* 19 (1965), 267-268. (D. ter Haar) 32 #5270

(with Fisher, Michael E.) Zeros of the partition function for the Heisenberg, ferroelectric, and general Ising models. *J. Mathematical Phys.* 12 (1971), 235-246. (S. Sherman) 43 #1577

Suzuki, Michio

A class of doubly transitive permutation groups. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 285-287. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #242

On a class of doubly transitive groups. II. *Ann. of Math.* (2) 79 (1964), 514-589. (W. Feit) 29 #144

Finite groups of even order in which Sylow 2-groups are independent. *Ann. of Math.* (2) 80 (1964), 58-77. (W. Feit) 29 #145

Finite groups in which the centralizer of any element of order 2 is 2-closed. *Ann. of Math.* (2) 82 (1965), 191-212. (W. Feit) 32 #1250

A characterization of the 3-dimensional projective unitary group over a finite field of odd characteristic. *J. Algebra* 2 (1965), 1-14. (W. Feit) 31 #2336

Transitive extensions of a class of doubly transitive groups. *Nagoya Math. J.* 27 (1966), 159-169. (H. Nagao) 33 #2710

On characterizations of linear groups. IV. *J. Algebra* 8 (1968), 223-247. (W. E. Jenner) 36 #2709

A characterization of the simple groups PSL(2,*q*). *J. Math. Soc. Japan* 20 (1968), 342-349. (H. Nagao) 37 #1465

A simple group of order 448,345,497,600. *Theory of Finite Groups (Symposium, Harvard Univ., Cambridge, Mass., 1968), pp.* 113-119. *Benjamin, New York,* 1969. (Editors) 39 #2867

Characterizations of linear groups. *Bull. Amer. Math. Soc.* 75 (1969), 1043-1091. (D. Gorenstein) 41 #5509

Suzuki, Mitsuo

(with Hatanaka, Michio) A theory of the pseudospectrum and its application to nonstationary dynamic econometric models. *Essays in Mathematical Economics (In Honor of Oskar Morgenstern), pp.* 443-466. *Princeton Univ. Press, Princeton, N. J.,* 1967. (From the authors' introduction) 35 #2447

Suzuki, Noboru

On the type of completely continuous operators. *Proc. Japan Acad.* 40 (1964), 683-685. (M. Nakamura) 31 #3887

Algebraic aspects of non-selfadjoint operators. *Proc. Japan Acad.* 41 (1965), 706-710. (Editors) 35 #5970

The algebraic structure of non self-adjoint operators. *Acta Sci. Math. (Szeged)* 27 (1966), 173-184. (D. M. Topping) 35 #5971

On the spectral decomposition of dissipative operators. *Proc. Japan Acad.* 42 (1966), 577-582. (K. Gustafson) 35 #5972

The structure of spectral operators with completely continuous imaginary part. *Proc. Amer. Math. Soc.* 22 (1969), 82-84. (P. A. Fillmore) 40 #782

On the irreducibility of weighted shifts. *Proc. Amer. Math. Soc.* 22 (1969), 579-581. (A. Brown) 41 #2442

On a weakly convergent sequence of normal functionals on a von Neumann algebra. *Proc. Amer. Math. Soc.* 22 (1969), 697-701. (H. Halpern) 40 #759

Representation of certain Banach *-algebras. *Proc. Japan Acad.* 45 (1969), 696-699. (R. Arens) 41 #9000

Every *C*-symmetric Banach *-algebra is symmetric. *Proc. Japan Acad.* 46 (1970), 98-102. (E. Gerlach) 43 #2519

Suzuki, Satoshi

On torsion of the module of differentials of a locality which is a complete intersection. *J. Math. Kyoto Univ.* 4 (1964/65), 471-475. (M. Nagata) 31 #4809

Note on formally projective modules. *J. Math. Kyoto Univ.* 5 (1966), 193-196. (M. Nagata) 34 #207

On the flatness of complete formally projective modules. *Proc. Amer. Math. Soc.* 19 (1968), 919-922. (M. Nagata) 37 #2746

Differential modules and derivations of complete discrete valuation rings. *J. Math. Kyoto Univ.* 9 (1969), 425-437. (S Yuan) 40 #7246 (E)

Modules of high order differentials of topological rings. *J. Math. Kyoto Univ.* 10 (1970), 337-348. (Ernst Kunz) 42 #5977

On Neggers' numbers of discrete valuation rings. *J. Math. Kyoto Univ.* 11 (1971), 373-375. (S. Yuan) 44 #6697

Corrections and supplements to my paper "Differential modules and derivations of complete discrete valuation rings". *J. Math. Kyoto Univ.* 11 (1971), 375-377. (S. Yuan) 44 #5311

Suzuki, Shin'ichi

On the knot associated with the soled torus. *Osaka J. Math.* 6 (1969), 475-483. (H. Terasaka) 42 #1100

Local knots of 2-spheres in 4-manifolds. *Proc. Japan Acad.* 45 (1969), 34-38. (R. H. Fox) 40 #2101

Note on bounded surfaces in a 3-manifold. *Yokohama Math. J.* 17 (1969), 93-98. (L. Neuwirth) 41 #4521

On linear graphs in 3-sphere. *Osaka J. Math.* 7 (1970), 375-396. (S. Kinoshita) 43 #5520

Representations of 1-homology classes of bounded surfaces. *Proc. Japan Acad.* 46 (1970), 1096-1098. (J. Dugundji) 44 #4751

Suzuki, Takeji

Batch-arrival queueing problem. *J. Operations Res. Soc. Japan* 5 (1962/63), 137-148. (L. Takács) 29 #2872

Two queues in series. *J. Operations Res. Soc. Japan* 5 (1962/63), 149-155. (L. Takács) 29 #2873

On a tandem queue with blocking. *J. Operations Res. Soc. Japan* 6 (1964), 137-157. (N. U. Prabhu) 31 #6292

Ergodicity of a tandem queue with blocking. *J. Operations Res. Soc. Japan* 7 (1964/65), 68-75. (D. V. Lindley) 31 #6293

On a queuing system with extra service. *J. Operations Res. Soc. Japan* 7 (1964/65), 186-195. (D. V. Lindley) 31 #5253

A filtered Poisson process on road traffic flow. *Mem. Defense Acad.* 6 (1966/67), 501-510. (G. Newell) 36 #6029

Counter problems and Spitzer's identity. *Mem. Defense Acad.* 7 (1967/68), 531-543. (L. Takács) 38 #792

(with Ebe, Masao) Limit theorems for a queueing process and their applications. *J. Operations Res. Soc. Japan* 11 (1968), 32-51. (F. G. Foster) 40 #5046

(with Hayashi, Katsuhiro) On queue disciplines. *J. Operations Res. Soc. Japan* 13 (1970/71), 43-58. (A. Descloux) 43 #4157

(with Yoshida, Yoshiyuki) Inequalities for many-server queue and other queues. *J. Operations Res. Soc. Japan* 13 (1970/71), 59-77. (A. Descloux) 43 #8160

(with Maruta, Minoru) Inequalities for two bulk queues and a tandem queue. *Mem. Defense Acad.* 10 (1970/71), 81-102. (R. Fischler) 42 #6965

Suzuki, Yasutaka

On the elementary theory of spinor. *J. College Arts Sci. Chiba Univ.* 5 (1967), *no.* 1, 27-32. (Author's summary) 38 #3010

Some formulae on Bessel and Legendre functions. *J. College Arts Sci. Chiba Univ.* 3 (1961/62), 441-446. (F. W. J. Olver) 29 #3685

On the Riemann-Liouville integral. Generalization of Leibnitz formula and of Bell formula. *J. College Arts Sci. Chiba Univ.* 5 (1967), *no.* 1, 25-26. (From the author's introduction) 38 #2266

On automorphisms of an injective module. *Proc. Japan Acad.* 44 (1968), 120-124. (B. L. Osofsky) 37 #2806

A note on QF-1 algebras. *Tôhoku Math. J.* (2) 22 (1970), 225-230. (P. D. Chawathé) 42 #4592

Dominant dimension of double centralizers. *Math. Z.* 122 (1971), 53-56. (E. J. Taft) 44 #6770

Suzuki, Yoshindo

Applications of the theory of β-models. *Comment. Math. Univ. St. Paul.* 16 (1967/68), 57-68. (J. R. Shoenfield) 37 #1240

$\aleph_0$-standard models for set theory. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 265-267. (W. Schwabhäuser) 39 #51

(with Mostowski, A.) On ω-models which are not β-models. *Fund. Math.* 65 (1969), 83-93. (D. H. Potts) 40 #7104

Orbits of denumerable models of complete theories. *Fund. Math.* 67 (1970), 89-95. (A. Máté) 42 #1651

Suzuki, Yoshiya

Saturation of local approximation by linear positive operators. *Tôhoku Math. J.* (2) 17 (1965), 210-221. (G. Sunouchi) 32 #2826

Saturation of local approximation by linear positive operators of Bernstein type. *Tôhoku Math. J.* (2) 19 (1967), 429-453. (F. Perrin) 37 #667

(with Ikeno, Kyuhei) Some remarks of saturation problem in the local approximation. *Tôhoku Math. J.* (2) 20 (1968), 214-233. (G. Sunouchi) 37 #6657

(with Watanabe, Satoshi) Approximation of functions by generalized Meyer-König and Zeller operator. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 7 (1969), *no.* 2, 123-128. (A. Sharma) 41 #8893

(with Watanabe, Satoshi) Some remarks on saturation problem in the local approximation. II. *Tôhoku Math. J.* (2) 21 (1969), 65-83. (G. Sunouchi) 39 #4572

Suzuki, Yukio

(with Govindarajulu, Zakkula) A note on an identity involving binomial coeffocoemts. *Ann. Inst. Statist. Math.* 15 (1963), 83-85. (J. Riordan) 30 #1069

On the use of some extraneous information in the estimation of the coefficients of regression. *Ann. Inst. Statist. Math.* 16 (1964), 161-173. (A. L. Nagar) 30 #2622

On uniform convergence in probability. (Japanese. English summary) *Proc. Inst. Statist. Math.* 12 (1964/65), 221-224. (T. Watanabe) 33 #4982

On sequential decision problems with delayed observations. *Ann. Inst. Statist. Math.* 18 (1966), 229-267. (D. V. Lindley) 34 #6960 (E)

Correction to: "On sequential decision problems with delayed observations". *Ann. Inst. Statist. Math.* 19 (1967), 371. (Editors) 35 #7503

On testing certain hypotheses. *Ann. Inst. Statist. Math.* 20 (1968), 71-78. (J. Sacks) 37 #2364

Suzuki, Yutaka

System identification. I, II, III, IV. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 423-432; *ibid.* 14 (1970), 483-494; *ibid.* 14 (1970), 617-625; *ibid.* 14 (1970), 683-693. (Editors) 42 #4231

(with Yamashita, Katsuhiko; Fujii, Katsuhiko) A method to find transfer function from frequency response data. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 667-674. (Authors' summary) 42 #5660

Suzuoka, Toshiro

Exact solutions of two ideal cases in grain boundary diffusion problem and the application to sectioning method. *J. Phys. Soc. Japan* 19 (1964), 836-851. (S. Ueno) 31 #4529

Švaĭ, O. Ī.

(with Dzjadik, V. K.) A constructive characteristic of functions of Hölder classes in regions with piecewise smooth boundary and arbitrary positive exterior angles. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 1012-1015. (W. Kleiner) 36 #5360

Improvement of the order of approximation of functions defined in regions with corners, in neighborhoods of corner points. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 4, 80-87. (J. Fuka) 37 #3017

The divergence in a closed disc of a certain interpolation process. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 42-43. (K. W. Lucas) 37 #1626

Šval'b, V. P.

Transformation of a flow by means of successive rarefaction. (Russian) *Problemy Peredači Informacii No.* 17 (1964), 106-111. (K. Dietz) 33 #4997

Švarc, A. S.

Stability of stationary values. *Dokl. Akad. Nauk SSSR* 131 (1960), 1276-1278 *(Russian); translated as Soviet Math. Dokl.* 1 (1960), 439-441. (J. R. Isbell) 29 #632

Duality of functors. (Russian) *Dokl. Akad. Nauk SSSR* 148 (1963), 288-291. (S. Rubinstein) 29 #5887

(with Mitjagin, B. S.) Functors in categories of Banach spaces. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 2 (116), 65-130. (M. M. Day) 29 #3866

Homology of spaces of smooth imbeddings. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 41-44. (B. S. Mitjagin) 34 #8421

(with Kissina, L. M.) On the question of description of the duality functor. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 282-285. (K. Drbohlav) 36 #2148

(with Pokazeeva, R. S.) Duality of functors. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 357-385. (M. L. Laplaza) 36 #3702

(with Kuznecov, V. V.) Duality of functors and duality of categories. *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 168-170. (J. R. Isbell) 34 #4330

(with Kuznecov, V. V.) Duality of functors and duality of categories. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 840-856. (M. L. Laplaza) 38 #4538

(with Kuznecov, V. V.) Functors in the category of vector spaces. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 40-43. (O. Wyler) 42 #7736

Švarc, Loran. See Schwartz, Laurent.

Švarc, Štefan. See Schwarz, Štefan.

Švarc, T. B.

(with Aĭzenštat, A. Ja.) The definability of lattices by lattice endomorphisms. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 3 (106), 3-11. (E. Gedeonová) 44 #5255

Švarc, V. Ja.

(with Jaroker, I. Š.) Extension elements of semigroups with one-sided unity elements. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 209-214. (K. Drbohlav) 29 #5947

A class of positional operatives. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 98-105. (V. Havel) 40 #1521

Binary positional operatives. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 35-37, 94. (H. Pflugfelder) 43 #396

Švarcburd, È. M.

Structural equations of a system of four partial differential equations of first order. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 192-199. (M. Pinl) 33 #7668

Švarcburg, A. B.

(with Cytovič, V. N.) Contribution to the theory of nonlinear interaction of waves in a magnetoactive anisotropic plasma. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 797-806 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 554-560. (Authors' summary) 33 #2095

(with Cytovich, V. N.) Nonlinear polarization of radiation passing through a plasma. *ŽETF Pis'ma* 3 (1966), 105-109 *(Russian); translated as JETP Lett.* 3 (1966), 65-68. (W. H. Schoendorf) 33 #968; erratum, 33, p. 1602

Švarcman, A. P.

Life and scientific activity of G. K. Suslov. (Ukrainian) *Istoriko-Mat. Zbirnik* 2 (1961), 68-76. 32 #7388

Švarcman, Ja. S.

A functional model of a completely continuous dissipative assembly. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 126-138. (T. Ando) 41 #2441

The invariant subspaces of a dissipative operator, and the divisors of its characteristic function. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 4, 85-86. (T. Ando) 43 #3832

Švarcman, O. V.

Discrete arithmetic subgroups of complex Lie groups. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 542-544. (J.-E. Bertin) 38 #4486

Linear representation of groups that are generated by reflexions. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 494-498. (M. C. Chaki) 42 #3187

Švarcman, P. A.

A contribution to the theory of canonical systems of differential equations of the positive type with periodic coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1019-1022. (Wolfdietrich Müller) 33 #4397

The analytic properties of a positively directed symplectic curve near a branch point of its spectrum. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1273-1275. (L. K. Jackson) 40 #2945

Inequalities for the eigenvalues of $\mathfrak{J}$-Hermitian and $\mathfrak{J}$-unitary operators. I, II. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 4 (14), 33-45; *ibid.* 5 (1970), *vyp.* 1 (15), 176-184. (T. Ando) 43 #234

On the analytic theory of linear differential equations in a Banach space. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 3, 90-102. (Z. Rubinstein) 41 #2186

Švec, Alois

On the definition of the linearizing transformation of Čech. (Czech. Russian and French summaries) *Časopis Pěst. Mat.* 88 (1963), 430-432. (Author's summary) 31 #6170

Global differential geometry of surfaces in affine space. (Czech and Russian summaries) *Časopis Pěst. Mat.* 89 (1964), 340-346. (L. A. Santaló) 32 #4613

Au sujet de la définition des variétés de König. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 222-234. (F. Brickell) 29 #5199

* Projective differential geometry of line congruences. *Publishing House of the Czechoslovak Academy of Sciences, Prague,* 1965. 208 *pp.* (M. Decuyper) 33 #7949

Infinitesimal deformations of surfaces in E^3. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 377-379. (N. J. Hicks) 34 #695

Cartan's method of specialization of frames. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 552-599. (Y. H. Clifton) 37 #4746

On the second covariant derivative of a vector field. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 77-78. (T. K. Pan) 34 #5025

A generalisation of Ehresmann's jets. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 79-90. (W. F. Pohl) 35 #3579

Inner geometry of submanifolds of homogeneous spaces. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 460-466. (T. Okubo) 35 #6092

On the geometry of submanifolds in homogeneous spaces. (Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 146-166. (J. L. Koszul) 38 #4624

A curve in the affine complex plane. (Czech. English and loose Russian summaries) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 282-286. (Author's summary) 37 #6848

Deformations of submanifolds of homogeneous spaces. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 22-29, 121. (C. S. Houh) 38 #5255

Deformation of surfaces in homogeneous 3-spaces. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 137-143. (C. S. Weaver) 37 #2270

Submanifolds of Klein spaces. *Czechoslovak Math. J.* 19(94) (1969), 492-499. (I. Kolář) 40 #1929

Švec, Marko

On various properties of the solutions of third- and fourth-order linear differential equations. *Differential Equations and Their Applications (Proc. Conf., Prague,* 1962*), pp.* 187-198. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (Z. Nehari) 30 #5018

Some remarks on a third-order linear differential equation. (Russian. English summary) *Czechoslovak Math. J.* 15(90) (1965), 42-49. (G. S. Jones) 30 #2196

Einige asymptotische und oszillatorische Eigenschaften der Differentialgleichung $y''' + A(x)y' + B(x)y = 0$. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 378-393. (J. J. Schäffer) 32 #2656

Fixpunktsatz und monotone Lösungen der Differentialgleichung $y^{(n)} + B(x,y,y',\cdots,y^{(n-1)})y = 0$. *Arch. Math. (Brno)* 2 (1966), 43-55. (T. L. Sherman) 34 #6187

L'existence globale et les propriétés asymptotiques des solutions d'une équation différentielle non-linéaire d'ordre *n*. *Arch. Math. (Brno)* 2 (1966), 141-151. (T. L. Sherman) 35 #6894

Some oscillatory properties of second order non linear differential equations. *Ann. Mat. Pura Appl.* (4) 77 (1967), 179-191. (D. Hinton) 37 #4330

Monotone solutions of some differential equations. *Colloq. Math.* 18 (1967), 7-21. (A. D. Ziebur) 36 #2890

Les propriétés asymptotiques des solutions d'une équation différentielle nonlinéaire d'ordre *n*. (Loose Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 550-557. (R. Reissig) 36 #1761

Remark on the asymptotic behaviour of the solutions of the differential equations. *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 22 (1969), 11-18. (P. F. Hsieh) 42 #2113

Sur un problème aux limites. *Czechoslovak Math. J.* 19(94) (1969), 17-26. (V. Ganapathy Iyer) 38 #6147

Existence of periodic solutions of differential equations of second order. *Periodic Orbits, Stability and Resonances (Proc. Sympos., Univ. São Paulo, São Paulo,* 1969*), pp.* 168-175. *Reidel, Dordrecht,* 1970. (D. V. V. Wend) 43 #2298

večinskiĭ, V. B.

On self-correcting constructions of finite automata. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 685-691. (Author's summary) 29 #3326

The relationship between the quantity of information and the accuracy of reproduction. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 3, 166-172 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 3, 138-144 (1969). (N. Zierler) 39 #5242

vecov, K. Ī.

Primary sources of Russian arithmetic manuscripts of the 17th century. (Ukrainian. Russian summary) *Istor.-Mat. Zbirnik* 4 (1963), 112-130. 32 #13

* Mathematics in the Ukraine in the XIV-XVII centuries. (Ukrainian) [Matematika na Ukraïnī v XIV-XVII st.] *"Radjans'ka Škola", Kiev,* 1968. 75 *pp.* (Author's summary) 40 #7078

vecová, Hana

On optimum deformation of canonical domains minimizing the modulus of the derivative of a conformal transformation. (Czech. and Russian summaries) *Apl. Mat.* 9 (1964), 81-109. (J. L. Kazdan) 33 #275

On the Bauer's scaled condition number of matrices arising from approximate conformal mapping. *Numer. Math.* 14 (1969/70), 495-507. (D. Gaier) 42 #1369

vecova, N. A.

(with Pagačev, Ja. I.) The conformal mapping of a generalized Fridman space onto a flat space. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1968, *no.* 3, 94-99. (W. M. Tulczyjew) 39 #2437

ved, G.

(with Brooks, D. S.) Elasto-plastic behaviour of a round bar subjected to axial force and torque. (German, French and Russian summaries) *Acta Tech. Acad. Sci. Hungar.* 50 (1965), 337-351. (Authors' summary) 32 #674

vedov, I. A.

(with Kuz′minov, V. I.) Cohomology groups of uniform spaces. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 565-595. (V. Poenaru) 32 #6446

Linkage in topological spaces. (Russian) *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 305-307. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (Y. Kodama) 42 #6817

(with Kuz′minov, V. I.) The completion of abelian groups in the *P*-topology. (Russian) *Algebra i Logika* 9 (1970), 436-457. (L. Bican) 43 #7509

vegždaĭte, V. S.

Gibbs phenomenon for Fourier-Jacobi series. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 274 (1965), 213-222. (G. Goes) 33 #6280

veĭkin, P. I.

Normal geometric objects of a surface in an affine space. (Russian) *Trudy Geometr. Sem.* 1 (1966), 331-423. (A. Švec) 35 #4836

vejda, Jaromír

Rounding-off errors in the solution of transcendental equations. (Czech. Russian, English and German summaries) *Sb. Prací Vys. Školy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 10 (1968), 5-34. (H. Švecová) 41 #2967

Numerical solution of a class of linear integral equations of Volterra type. (Czech. Russian, English, French and German summaries) *Sb. Prací Vys. Školy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 15 (1968), 23-55. (S. Maloň) 40 #8298

A class of linear integral equations. (Czech. Russian, English, French and German summaries) *Sb. Prací Vys. Školy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 19 (1969), 23-52. (Author's summary) 40 #3747

Round-off error of the solution of linear algebraic equations, which can be solved by successive approximations. (Czech. Russian, English, French and German summaries) *Sb. Prací Vys. Školy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 19 (1969), 53-64. (From the author's summary) 40 #3702

Error estimation of an approximate solution of a system of transcendental equations. (Czech. Russian, English, French and German summaries) *Sb. Prací Vys. Školoy Doprav. v Žilině a Výzkum. Ústav. Doprav. v Praze No.* 25 (1969), 67-83. (Author's summary) 40 #8255

veklo, V. A.

On the solution of dynamic problems in the plane theory of elasticity for anisotropic media. *Prikl. Mat. Meh.* 25 (1961), 885-896 *(Russian); translated as J. Appl. Math. Mech.* 25 (1962), 1324-1339. (C. E. Pearson) 31 #1799

The mixed problem for the elastic anisotropic halfplane. *Prikl. Mat. Meh.* 26 (1962), 896-906 *(Russian); translated as J. Appl. Math. Mech.* 26 (1963), 1354-1368. (R. M. Morris) 31 #952

The initial pressure on half-space under the impact of a smooth flat die. *Prikl. Mat. Meh.* 28 (1964), 145-148 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 168-172. (Author's summary) 30 #1660

Boussinesq type problems for the anisotropic half-space. *Prikl. Mat. Meh.* 28 (1964), 908-913 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 1099-1105 (1965). 32 #1961

Svenonius, Lars

On the denumerable models of theories with extra predicates. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 376-389. *Notth-Holland, Amsterdam,* 1965. (M. Morley) 35 #42

Svensson, P.

(with Dahlquist, G.; Sjöberg, B.) Comparison of the method of averages with the method of least squares. *Math. Comp.* 22 (1968), 833-845. (W. C. Rheinboldt) 39 #1099

Svensson, S. Leif

Necessary and sufficient conditions for the hyperbolicity of polynomials with hyperbolic principal part. *Ark. Mat.* 8 145-162 (1969). (C. Harvey) 42 #6421

Sverdrup, Erling

Estimates and test procedures in connection with stochastic models for deaths, recoveries and transfers between different states of health. *Skand. Aktuarietidskr.* 1965, 184-211 (1967). (K. Dietz) 35 #2450

The present state of the decision theory and the Neyman-Pearson theory. (French summary) *Rev. Inst. Internat. Statist.* 34 (1966), 309-333. (R. H. Berk) 34 #6956

* Multiple decision theory. Lecture Notes Series, No. 15. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. i + 103 *pp.* (S. Blumenthal) 42 #2591

Svesnicov, A. G. See Svešnikov, A. G.

Svešnikov, A. A.

A problem of the theory of reliability. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 3, 58-61. (W. H. Fleming) 31 #3281

* Untersuchungsmethoden der Theorie der Zufallsfunktionen mit praktischen Anwendungen. Translated from the Russian by H.-J. Girlich. Edited by G. Eisenreigh. *B. G. Teubner Verlagsgesellschaft Leipzig,* 1965. iv + 229 *pp.* (Editors) 32 #8365

* (with Volodin, B. G.; Ganin, M. P.; Diner, I. Ja.; Komarov, L. B.; Starobin, K. B.) Сборник задач по теории вероятностей, математической статистике и теории случайных функций. (Russian) [Collection of problems in the theory of probability, mathematical statistics and theory of random functions] Edited by A. A. Svešnikov. *Izdat. "Nauka", Moscow,* 1965. 632 *pp.* (M. R. Leadbetter) 32 #8366

* Applied methods of the theory of random functions. Translated from the Russian by J. Berry. Translation edited by L. Haller. International Series of Monographs in Pure and Applied Mathematics, Vol. 89. *Pergamon Press, Edingurgh-New York-Toronto, Ont.,* 1966. ix + 321 *pp.* (Editors) 33 #6874

(See also Problems in probability theory, mathematical statistics and theory of random functions, 36 #5970)

* Прикладные методы теории случайных функций. (Russian) [Applied methods of the theory of random functions] Second revised and supplemented edition. *Izdat. "Nauka", Moscow,* 1968. 463 *pp.* (Editors) 41 #6430

* (with Diner, I. Ja.; Ganin, M. P.; Komarov, L. B.; Starobin, K. B.; Volodin, B. G.) Wahrscheinlichkeitsrechnung und mathematische Statistik in Aufgaben. Unter der Redaktion von A. A. Sweschnikow. Aus dem Russischen übersetzt von R. Mühlig. Mathematik für technische Hochschulen, Band 9. *BSB B. G. Teubner Verlagsgesellschaft, Leipzig,* 1970. vii + 500 *pp.* (Editors) 43 #1235

Svešnikov, A. G.

(with Modenov, V. P.) Propagation of electromagnetic waves in wave guides with local gyrotropic filling. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 364-385. *Izdat. Moskov. Univ., Moscow,* 1965. (K. C. Westfold) 33 #977

(with Il'in, V. A.) Andreĭ Nikolaevič Tihonov. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1408-1412. (Editors) 34 #1147

(with Dmitriev, V. I.) Works of A. N. Tihonov in mathematical physics. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 138-149 (1967). 34 #5625

(with Tihonov, A. N.; Il′in, V. A.; Arsen′ev, A. A.) Aleksandr Andreevič Samarskiĭ on his fiftieth birthday. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1909-1914. (Editors) 40 #5405

Svetlichny, George

Generalized operators. *J. Mathematical Phys.* 11 (1970), 3433-3486. (W. Faris) 43 #1561

Svetlov, V. G.

Some representations of the multidimensional probability density of the envelope of a normal random process with zero mean. *Radiotehn. i Èlektron.* 11 (1966), 2119-2127 *(Russian); translated as Radio Engrg. Electron. Phys.* 1966, 1871-1878. (J. Capon) 35 #3755

Svidskiĭ, P. M.

(with Berljand, O. S.; Nazarov, I. M.) On certain integral inequalities. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 251-252. (D. C. Benson) 35 #5562

Svidzinskiĭ, A. V.

A study of the equation for a gap in the energy spectrum of a superconductor. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 544-550. (P. K. Ghosh) 29 #4518

Švinger, Yu. See Schwinger, Julian.

Svirčevskiĭ, A. A.

(with Kuks, L. M.) Theorems in the qualitative theory of partial difference equations. (Russian) *Differencial'nye Uravnenija* 4 (1968), 375-378. (W. S. Loud) 37 #632

Sviridov, D. T.

(with Smirnov, Ju. F.) The algebra of irreducible cubic tensors. *Dokl. Akad. Nauk SSSR* 163 (1965), 1138-1141 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 701-703. (J. Zak) 32 #7162

(with Novosadov, B. K.; Saulevich, L. K.; Smirnov, Ju. F.) The decomposition of direct products of irreducible representations of space groups. *Dokl. Akad. Nauk SSSR* 184 (1969), 82-84 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 50-52. 41 #3013

Svirščeva, È. A.

Properties of schemes with inductive connections. (Russian) *Radiotehn. (Har'kov) Vyp.* 11 (1969), 22-24. (J. Morávek) 43 #6010

Svirskiĭ, I. V.

Estimate of accuracy for the approximate solution of nonselfadjoint elliptic differential equations by the method of Bubnov-Galerkin-Petrov. (Russian) *Proc. Conf. Plates and Shells (Russian), pp.* 337-346. *Izdat. Kazan. Univ., Kazan,* 1961. (Z. Poracká) 34 #8659

Svjatskaja, N. V.

(with Inosov, V. L.) Certain problems of optimal inventory control. (Russian) *Èkonom. i Mat. Metody* 5 (1969), 55-62. (Marcel Rădulescu) 43 #8348

Svoboda, Antonín

An algorithm for solving Boolean equations. (Russian and Czech summaries) *Stroje na Zpracování Informací* 9 (1963), 271-282. (Author's summary) 31 #4693

(with Čulík, K.) An algorithm for solving Boolean equations. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 374-381. (R. M. Baer) 29 #5414

Svoboda, František

(Přibáň, M.; Zbořil, V.) A remark on the synthesis of logical schemes. (Russian) *Acta Tech. ČSAV* 13 (1968), 730-732: (I. Cederbaum) 40 #5346

Svoboda, Karel

(with Havel, V.; Kolář, I.) La méthode du repérage des systèmes de sous-variétés. *Comment. Math. Univ. Carolinae* 5 (1964), 183-201. (M. Decuyper) 30 #5236

Sur la bidéformation symplectique des congruences de droites dans un espace a cinq dimensions. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 11B (1965), 411-428. (M. Kimpara) 35 #2222

Déformation symplectique des congruences de droites. *Arch. Math. (Brno)* 1 (1965), 59-74. (P. Drăgilă) 35 #2227

Déformation ponctuelle des congruences de droites dans des espaces symplectiques à trois dimensions. *Comment. Math. Univ. Carolinae* 6 (1965), 393-401. (A. Švec) 33 #3216

Sur une application de la théorie des correspondances développables de E. Čech. *Arch. Math. (Brno)* 2 (1966), 33-41. (A. Švec) 34 #8311

Sur la déformation projective des pseudocongruences complètement focales. I. *Arch. Math. (Brno)* 3 (1967), 83-98. (A. Švec) 36 #7047

Über die Punktdeformation einer vollständig fokalen Pseudokongruenz. *Math. Nachr.* 38 (1968), 197-206. (R. Roşca) 39 #4765

Sur une classe de congruences de droites dans un espace projectif de dimension paire. *Arch. Math. (Brno)* 5 (1969), 157-165. (C. Ballester Pereyra) 43 #5396

Sur la déformation projective des systèmes osculateurs d'une congruence de droites. *Czechoslovak Math. J.* 20(95) (1970), 315-326. (C. Simionescu) 43 #6831

Sur la bidéformation projective des congruences de droites. *Czechoslovak Math. J.* 20(95) (1970), 327-336. (C. Simionescu) 43 #6832

Swadesh Ranjan Roy. See Roy, Swadesh Ranjan.

Swain, A. K. P. C.

The use of systematic sampling in ratio estimate. *J. Indian Statist. Assoc.* 2 (1964), 160-164. (C. Hayashi) 30 #2651

On Stein's two sample theory to test the difference between means of normal populations with common unknown variance and unequal amount of sampling from the populations. *J. Indian Statist. Assoc.* 2 (1964), 165-172. (H. E. Reinhardt) 30 #3540

A lower bound to the probability of variance ratio. *Ann. Inst. Statist. Math.* 17 (1965), 81-84. (D. R. Barr) 31 #4109

(with Ghosh, M. N.) Analysis of covariance in Scheffe's mixed model. *Calcutta Statist. Assoc. Bull.* 15 (1966), 137-146. (D. A. Sprott) 35 #2431

Swamay, P. A. V. B.

Efficient inference in a random coefficient regression model *Econometrica* 38 (1970), 311-323. 42 #3929

Swami, S. P.

A note on the weakened field equations $R_{ij;k} - R_{ik;j} = 0$. *Indian J. Pure Appl. Math.* 1 (1970), *no.* 4, 485-491. (C. W. Kilmister) 42 #7230

Swamidhas, P.

(with Abraham, G.; Arthur, B. M.) Reduction of *G*-orthogonal matrices. *Proc. Indian Acad. Sci. Sect. A* 68 (1968), 244-250. (M. Pearl) 39 #1467

Swaminarayan, N. S.

(with Bonnor, W. B.) An exact stationary solution of Einstein's equations. *Z. Physik* 186 (1965), 222-226. (S. C. Das 31 #6645

An exact solution for uniformly accelerated particles in general relativity. III. Singular expanding (contracting) null surface. *Comm. Math. Phys.* 2 (1966), 59-70. (R. H. Boyer) 32 #8997

Swaminathan, S.

A note on countably paracompact normal spaces. *J. Indian Math. Soc. (N.S.)* 29 (1965), 67-69. (E. Michael) 32 #8308

(with Day, M. M.; James, R. C.) Normed linear spaces that are uniformly convex in every direction. *Canad. J. Math.* 23 (1971), 1051-1059. (H. A. Gindler) 44 #4492

Swamy, J. Chidambara. See Chidambaraswamy, Jayanthi.

Swamy, K. L. N.

Autometrized lattice ordered groups. I. *Math. Ann.* 154 (1964), 406-412. (R. S. Pierce) 29 #171

A general theory of autometrized algebras. *Math. Ann.* 157 (1964), 65-74. (M. F. Smiley) 30 #1077

Dually residuated lattice ordered semigroups. *Math. Ann.* 159 (1965), 105-114. (G. Birkhoff) 32 #1273

Dually residuated lattice ordered semigroups. II. *Math. Ann.* 160 (1965), 64-71. (R. S. Pierce) 33 #78

Dually residuated lattice ordered semigroups. III. *Math. Ann.* 167 (1966), 71-74. (R. S. Pierce) 34 #260

Swamy, M. N. S.

More Fibonacci identities. *Fibonacci Quart.* 4 (1966), 369-372. (S. Lin) 36 #103

Further properties of Morgan-Voyce polynomials. *Fibonacci Quart.* 6 (1968), *no.* 2, 167-175. (J. E. Whitesitt) 38 #5752

Swamy, N. V. Chandrasekhara

Similarity conditions for pseudo plastic fluid flow. *J. Phys. Soc. Japan* 18 (1963), 1701. (J. C. Cooke) 29 #815

Swamy, N. V. V. J.

Exact solution of the Dirac equation with an equivalent oscillator potential. *Phys. Rev.* (2) 180 (1969), 1225-1226. (F. C. Auluck) 40 #5209

(with Kulkarni, R. G.; Biedenharn, L. C.) Evaluation of certain radial Coulomb integrals using symmetry properties of the Coulomb field. *J. Mathematical Phys.* 11 (1970), 1165-1171. (C. J. Eliezer) 42 #2751

Swan, A. V.

Computing maximum-likelihood estimates for parameters of the normal distribution from grouped and censored data. *Appl. Statist.* 18 (1969), 65-69. (Author's summary) 39 #3637

Swan, G. W.

Upstream influence effects in the flow of a conducting fluid over an insulating wall. *Quart. J. Mech. Appl. Math.* 18 (1965), 243-255. (C. K. Chu) 32 #5009

Swan, P.

Asymptptic phase-shifts and bound states for two-body central interactions. *Nuclear Phys.* 46 (1963), 669-694. (T. Regge) 31 #4378

Swan, Richard G.

A simple proof of the cup product reduction theorem. *Proc. Nat. Acad. Sci. U.S.A.* 46 (1960), 114-117. (D. Buchsbaum) 30 #13 (with Bass, H.; Heller, A.) The Whitehead group of a polynomial extension. *Inst. Hautes Études Sci. Publ. Math. No.* 22 (1964), 61-79. (J. F. Adams) 30 #4806

Minimal resolutions for finite groups. *Topology* 4 (1965), 193-208. (W. Ledermann) 31 #3482

The number of generators of a module. *Math. Z.* 102 (1967), 318-322. (Robert Gilmer) 36 #1434

Representations of polycyclic groups. *Proc. Amer. Math. Soc.* 18 (1967), 573-574. (A. Kleppner) 35 #4306

* Algebraic *K*-theory. Lecture Notes in Mathematics, No. 76. *Springer-Verlag, Berlin-New York,* 1968. iv + 262 *pp.* (H. Bass) 39 #6940

Generators and relations for certain special linear groups. *Bull. Amer. Math. Soc.* 74 (1968), 576-581. (J. Knopfmacher) 37 #323

Invariant rational functions and a problem of Steenrod. *Invent. Math.* 7 (1969), 148-158. (E. Inaba) 39 #5532

Groups of cohomological dimension one. *J. Algebra* 12 (1969), 585-610. (L. Neuwirth) 39 #1531

Correction to "An application of graph theory to algebra". *Proc. Amer. Math. Soc.* 21 (1969), 379-380. (C. Y. Chao) 41 #101

Nonabelian homological algebra and *K*-theory. *Applications of Categorical Algebra (Proc. Sympos. Pure Math., Vol. XVII, New York,* 1968*), pp.* 88-123. *Amer. Math. Soc., Providence, R. I.,* 1970. (H. Bass) 41 #1839

Generators and relations for certain special linear groups. *Advances in Math.* 6, 1-77 (1971). (J. Dieudonné) 44 #1741

Groups with no odd dimensional cohomology. *J. Algebra* 17 (1971), 401-403. (L. Evens) 42 #7754

Swanek, James

(with Irwin, John) On purifiable subsocles of a primary abelian group. *Canad. J. Math.* 23 (1971), 48-57. (P. Hill) 43 #2078

Swanepoel, J. W. H.

(with Venter, J. H.) Some properties of birth and death processes. *South African Statist. J.* 5 (1971), 15-25. 44 #3398

Swann, Dale W.

Some new classes of kernels whose Fredholm determinants have order less than one. *Trans. Amer. Math. Soc.* 160 (1971), 427-435. (K. N. Srivastava) 44 #744

Swann, H. S. G.

(with Atkinson, C. P.; Dhoopar, B. L.) The generalization of modal subspaces in the complex domain. *Proc. Cambridge Philos. Soc.* 65 (1969), 731-740. (N. P. Bhatia) 40 #4519

The convergence with vanishing viscosity of nonstationary Navier-Stokes flow to ideal flow in R_3. *Trans. Amer. Math. Soc.* 157 (1971), 373-397. (R. Gerber) 43 #3662

Swann, J.

(with Powell, M. J. D.) Weighted uniform sampling—a Monte Carlo technique for reducing variance. *J. Inst. Math. Appl.* 2 (1966), 228-236. (J. Spanier) 34 #6986

Swann, Michael

(See Machine intelligence, 40 #3749)

Swann, W. H.

(with Davies, D.) Review of constrained optimization. (With discussion) *Optimization (Sympos., Univ. Keele, Keele,* 1968*), pp.* 187-202. *Academic Press, London,* 1969. 42 #2642

Swanson, C. A.

Domain perturbations of the biharmonic operator. *Canad. J. Math.* 17 (1965), 1053-1063. (J. Hersch) 32 #2740

(with Clark, Colin) Comparison theorems for elliptic differential equations. *Proc. Amer. Math. Soc.* 16 (1965), 886-890. (P. Hartman) 31 #4983

A generalization of Sturm's comparison theorem. *J. Math. Anal. Appl.* 15 (1966), 512-519. (P. Hartman) 34 #4656

Enclosure theorems for eigenvalues of elliptic operators. *Proc. Amer. Math. Soc.* 17 (1966), 18-25. (P. Hartman) 32 #7940

A comparison theorem for elliptic differential equations. *Proc. Amer. Math. Soc.* 17 (1966), 611-616. (P. Hartman) 34 #1663

(with Headley, V. B.) An extension of Airy's equation. *SIAM J. Appl. Math.* 15 (1967), 1400-1412. (F. W. J. Olver) 37 #482

Comparison theorems for elliptic equations on unbounded domains. *Trans. Amer. Math. Soc.* 126 (1967), 278-285. (C. Clark) 34 #3064

(with Headley, V. B.) Oscillation criteria for elliptic equations. *Pacific J. Math.* 27 (1968), 501-506. (K. Kreith) 38 #4797

An identity for elliptic equations with applications. *Trans. Amer. Math. Soc.* 134 (1968), 325-333. (P. Hartman) 38 #400

(with Allegretto, W.) Sturm comparison theorems for elliptic inequalities. *Bull. Amer. Math. Soc.* 75 (1969), 1318-1321. (L. E. Payne) 39 #7265

Nonoscillation criteria for elliptic equations. *Canad. Math. Bull.* 12 (1969), 275-280. (D. R. Smith) 41 #621

Comparison theorems for quasilinear elliptic differential inequalities. *J. Differential Equations* 7 (1970), 243-250. (K. Kreith) 41 #628

Comparison theorems for elliptic differential systems. *Pacific J. Math.* 33 (1970), 445-450. (L. E. Payne) 41 #7255

Oscillation criteria for nonlinear matrix differential inequalities. *Proc. Amer. Math. Soc.* 24 (1970), 824-827. (James S. Muldowney) 41 #3890

(with Allegretto, W.) Oscillation criteria for elliptic systems. *Proc. Amer. Math. Soc.* 27 (1971), 325-330. (P. Hartman) 43 #2336

Swanson, J. W.

A reduction theorem for normal algorithms. *J. Symbolic Logic* 31 (1966), 86-97. (J. P. Roth) 33 #7253

A variant of Turing machines requiring print instructions only. *Logique et Analyse (N.S.)* 10 (1967), 200-206. (L. H. Landweber) 37 #7223

Sward, G. L.

Transfinite sequences of axiom systems for set theory. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.,* 1967*), pp.* 429-438. *Amer. Math. Soc., Providence, R. I.,* 1971. (S. Feferman) 44 #6479

Swaroop, Rajendra

On a generalization of the Laplace and the Stieltjes transformations. *Ann. Soc. Sci. Bruxelles Sér. I* 78 (1964), 105-112. (P. L. Butzer) 30 #1362

A general expansion involving Meijer's *G*-function. *Ann. Soc. Sci. Bruxelles Sér. I* 79 (1965), 47-57. (R. S. Varma) 31 #2423

de Swart, J. J.

The octet model and its Clebsch-Gordan coefficients. *Rev. Modern Phys.* 35 (1963), 916-939. (S. L. Glashow) 29 #983

Erratum: The octet model and its Clebsch-Gordan coefficients. *Rev. Modern Phys.* 37 (1965), 326. (Editors) 31 #1977

Swartz, Blair K.

(with Birkhoff, Garrett; de Boor, C.; Wendroff, B.) Rayleigh-Ritz approximation by piecewise cubic polynomials. *SIAM J. Numer. Anal.* 3 (1966), 188-203. (C. W. Clenshaw) 34 #3773

$O(h^{2n+2-l})$ bounds on some spline interpolation errors. *Bull. Amer. Math. Soc.* 74 (1968), 1072-1078. (T. J. Rivlin) 38 #4869

Explicit $O(h^2)$ bounds on the eigenvalues of the half-*L*. *Math. Comp.* 22 (1968), 40-59. (R. C. DiPrima) 36 #6161

(with Wendroff, Burton) Generalized finite-difference schemes. *Math. Comp.* 23 (1969), 37-49. (J. Legras) 39 #1125

Swartz, Charles

Analytic functions having distributional boundary values. *Arch. Rational Mech. Anal.* 23 (1967), 366-368. (D. C. Rung) 35 #3064

A generalized function calculus based on the Laplace transform. *Studia Math.* 28 (1966), 17-30. (A. H. Zemanian) 34 #3246

The space of Laplace transformable distributions. *Portugal. Math.* 29 (1970), 87-93. (D. Myers) 43 #6721

Swarup, G. Ananda

(with Varadarajan, K.) On some applications of a theorem of Browder-Levine-Livesay. *Proc. Cambridge Philos. Soc.* 66 (1969), 517-519. (R. Schultz) 39 #6329

Some properties of 3-manifolds with boundary. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 1-23. (C. H. Giffen) 43 #2724

A note on higher dimensional knots. *Math. Z.* 121 (1971), 141-144. (H. R. Gluck) 43 #6932

Swarup, Kanti

Some aspects of linear fractional functionals programming. *Austral. J. Statist.* 7 (1965), 90-104. 33 #7133

A duality theorem for non-linear programming. (German and Russian summaries) *Z. Angew. Math. Mech.* 45 (1965), 311-314. (Author's summary) 32 #7249

Indefinite quadratic programming. *Cahiers Centre Études Recherche Opér.* 8 (1966), 217-222. (R. L. Graves) 35 #1353

Quadratic programming. *Cahiers Centre Études Recherche Opér.* 8 (1966), 223-234. (R. L. Graves) 35 #1354

(with Gupta, R. K.) Calculus in non-linear programming problem. *Yokohama Math. J.* 14 (1966), 39-43. (R. W. Cottle) 35 #5227

Fractional programming with non-linear constraints. *Z. Angew. Math. Mech.* 46 (1966), 468-469. (A. C. Williams) 36 #2395

(with Sinha, S. M.) Mathematical programming: A survey. *J. Math. Sci.* 2 (1967), 125-146. (Editors) 37 #5028

Some aspects of duality for linear fractional functionals programming. *Z. Angew. Math. Mech.* 47 (1967), 204-205. (J. N. Kapur) 36 #3576

Indefinite quadratic programming with non-linear constraints. *Z. Angew. Math. Mech.* 47 (1967), 411-413. (From the author's introduction) 36 #2397

Duality for transportation problem in fractional programming. *Cahiers Centre Études Recherche Opér.* 10 (1968), 46-54. (A. F. Veinott, Jr.) 37 #7175

Indefinite quadratic programming with a quadratic constraint. (Czech summary) *Ekonom.-Mat. Obzor* 4 (1968), 69-75. (A. F. Veinott, Jr.) 38 #4154

Two basic variables replacement in dual simplex method. *J. Math. Sci.* 3 (1968), 75-80. (Author's summary) 39 #1209

Factional programming. *Math. Student* 36 (1968), 58-62 (1969). (J. Falk) 41 #6571

Duality in fractional programming. (German summary) *Unternehmensforschung* 12 (1968), 106-112. (E. M. L. Beale) 38 #5469

(with Gupta, R. K.) Approximate method of solution for nonlinear fractional programming. *Z. Angew. Math. Mech.* 49 (1969), 753-756. (J. Stoer) 41 #1380

(with Sharma, I. C.) Programming with linear fractional functionals in complex space. *Cahiers Centre Études Recherche Opér.* 12 (1970), 103-109. (O. Gürel) 44 #5106

(with Anand, P.) The procedure for local separable programming. *Z. Angew. Math. Mech.* 50 (1970), 320-321. (J. Falk) 41 #9576

Swaryczewski, Antoni

Crystallographic regular polyhedral groups in multidimensional space. *Bull. Soc. Sci. Lettres Łódź* 18 (1967), *no.* 4, 18 *pp.* (Werner Nowacki) 38 #3358

Sweat, Calvin W.

Adaptive competitive decision in repeated play of a matrix game with uncertain entires. *Naval Res. Logist. Quart.* 15 (1968), 425-448. (Author's summary) 38 #4158

A dual involving false targets. *Operations Res.* 17 (1969), 478-488. (F. Eicker) 41 #1391

Sequential search with discounted income, the discount a function of the cell searched. *Ann. Math. Statist.* 41 (1970), 1446-1455. (Richard A. Johnson) 44 #2293

Sweedler, Moss Eisenberg

Cocommutative Hopf algebras with antipode. *Bull. Amer. Math. Soc.* 73 (1967), 126-128. (W. D. Barcus) 35 #5495

Hopf algebras with one grouplike element. *Trans. Amer. Math. Soc.* 127 (1967), 515-526. (F. Oort) 35 #1634

Structure of inseparable extensions. *Ann. of Math.* (2) 87 (1968), 401-410. (S. Yuan) 36 #6391 (E)

The Hopf algebra of an algebra applied to field theory. *J. Algebra* 8 (1968), 262-276. (K.-T. Chen) 36 #5105

Cohomology of algebras over Hopf algebras. *Trans. Amer. Math. Soc.* 133 (1968), 205-239. (J. Knopfmacher) 37 #283

* Hopf algebras. Mathematics Lecture Note Series. *W. A. Benjamin, Inc., New York,* 1969. vii + 336 *pp.* (K.-T. Chen) 40 #5705

* (with Chase, Stephen U.) Hopf algebras and Galois theory. Lecture Notes in Mathematics, Vol. 97. *Springer-Verlag, Berlin-New York,* 1969. ii + 133 *pp.* (R. G. Larson) 41 #5348

(with Larson, Richard Gustavus) An associative orthogonal bilinear form for Hopf algebras. *Amer. J. Math.* 91 (1969), 75-94. (K.-T. Chen) 39 #1523

Correction to: "Structure of inseparable extensions". *Ann. of Math.* (2) 89 (1969), 206-207. (S. Yuan) 38 #4451

Integrals for Hopf algebras. *Ann. of Math.* (2) 89 (1969), 323-335. (R. G. Larson) 39 #4167

(with Allen, Harry Prince) A theory of linear descent based upon Hopf algebraic techniques. *J. Algebra* 12 (1969), 242-294. (R. G. Larson) 39 #4233

(with Heyneman, Robert G.) Affine Hopf algebras. I. *J. Algebra* 13 (1969), 192-241. (K.-T. Chen) 39 #6876

A units theorem applied to Hopf algebras and Amitsur cohomology. *Amer. J. Math.* 92 (1970), 259-271. (R. G. Larson) 42 #3154

(with Heyneman, Robert G.) Affine Hopf algebras. II. *J. Algebra* 16 (1970), 271-297. (K.-T. Chen) 42 #342

(with Pareigis, Bodo) On generators and cogenerators. *Manuscripta Math.* 2 (1970), 49-66. (Y. C. Wu) 41 #5447

Multiplication alternation by two-cocycles. *Illinois J. Math.* 15 (1971), 302-323. (S. A. Amitsur) 44 #5348

(with Lichtenbaum, Stephen) A Nullstellensatz for higher derivations. *J. Algebra* 17 (1971), 19-24. (R. E. MacRae) 42 #3072

Connected fully reducible affine group schemes in positive characteristic are abelian. *J. Math. Kyoto Univ.* 11 (1971), 51-70. (F. Oort) 43 #6219

(with McConnell, John C.) Simplicity of smash products. *Proc. London Math. Soc.* (3) 23 (1971), 251-266. (K.-T. Chen) 44 #6795

Weakening a theorem on divided powers. *Trans. Amer. Math. Soc.* 154 (1971), 427-428. (R. G. Larson) 43 #4888

Sweeney, William J.

"The δ-Poincaré estimate". *Pacific J. Math.* 20 (1967), 559-570. (Author's summary) 37 #578

A noncompact Dirichlet norm. *Proc. Nat. Acad. Sci. U.S.A.* 58 (1967), 2193-2195. (M. F. Atiyah) 37 #3587

The *D*-Neumann problem. *Acta Math.* 120 (1968), 223-277. (W. Stoll) 37 #2250

Estimates for elliptic complexes of higher order. *J. Differential Equations* 10 (1971), 112-140. (J. Eells) 44 #7113

Sweeny, H. C.

(with Gaylor, D. W.) Design for optimal prediction in simple linear regression. *J. Amer. Statist. Assoc.* 60 (1965), 205-216. (J. H. Stapleton) 32 #570

Sweet, A. L.

(with Hardin, J. C.) A note on absorption probabilities for a random walk between a reflecting and an absorbing barrier. *J. Appl. Probability* 6 (1969), 224-226. (H. Teicher) 39 #4943

(with Hardin, J. C.) Solutions for some diffusion processes with two barriers. *J. Appl. Probability* 7 (1970), 423-431. (K. S. Miller) 41 #6309

(with Hardin, J. C.) Moments of the time to absorption in the random walk between a reflecting and an absorbing barrier. *SIAM Rev.* 12 (1970), 140-142. (J. Gillis) 41 #6316

Sweet, Albert M.

Toward a pragmatical explication of epistemic modalities. *Notre Dame J. Formal Logic* 4 (1963), 145-150. (A. Rose) 30 #103

(with Chiaraviglio, Lucio) The pragmatics of truth function. *Notre Dame J. Formal Logic* 5 (1964), 191-198. (D. Monk) 33 #388

The pragmatics of monadic quantification. *Notre Dame J. Formal Logic* 10 (1969), 31-46. (From the author's introduction) 39 #3974

Sweet, Daniel

(with Bancroft, Stephen; Hale, Jact K.) Alternative problems for nonlinear functional equations. *J. Differential Equations* 4 (1968), 40-56. (L. Cesari) 36 #3184

An alternative method based on approximate solutions. *Math. Systems Theory* 4 (1970), 306-315. (M. Z. Nashed) 43 #5371

Sweet, P. A.

(with McGregor, D. D.) Local stability in rapidly rotating collisionless stellar systems. *Monthly Notices Roy. Astronom. Soc.* 128 (1964), 195-205. (D. Brouwer) 30 #5790

(with Roxburgh, I. W.; Griffith, J. S.) On models of non spherical stars. I. The theory of rapidly rotating main sequence stars. *Z. Astrophys.* 61 (1965), 203-221. (D. K. Sen) 32 #1001

Sweet, Roland A.

A rucursive relation for the determinant of a pentadiagonal matrix. *Comm. ACM* 12 (1969), 330-332. (Author's summary) 43 #5708

Properties of a semi-discrete approximation to the beam equation. *J. Inst. Math. Appl.* 5 (1969), 329-339. (W. Gilbert Strang) 40 #5158

Sweezy, W. B.

(with Thron, W. J.) Estimates of the speed of convergence of certain continued fractions. *SIAM J. Numer. Anal.* 4 (1967), 254-270. (G. Blanch) 35 #7563

Swenson, Eva V.

Geometry of the complex characteristics in transonic flow. *Comm. Pure Appl. Math.* 21 (1968), 175-185. (W. F. Ames) 37 #2461

(with Garabedian, P. R.) Remarks about local maxima of the coefficients of univalent functions. *J. Analyse Math.* 23 (1970), 133-138. (J. L. Kazdan) 42 #4724

Swenson, J. R.

(with Keller, H. B.) Experiments on the lattice problem of Gauss. *Math. Comp.* 17 (1963), 223-230. (W. Fraser) 29 #3445

(with Hull, T. E.) Tests of probabilistic models for propagation of roundoff errors. *Comm. ACM* 9 (1966), 108-113. (Authors' summary) 32 #3297

Swenson, Robert J.

(with Hardy, Robert J.; Schieve, William C.) Perturbation expansion for lattice thermal conductivity. *J. Mathematical Phys.* 6 (1965), 1741-1748. (J. A. McLennan) 32 #5274a

Swerdlow, Noel

Hipparchus on the distance of the sun. *Centaurus* 14 (1969), 287-305. (J. Vernet) 42 #14

Swerling, Peter

Statistical properties of the contours of random surfaces. *IRE Trans.* IT-8 (1962), 315-321. (Author's summary) 30 #5837

Topics in generalized least squares signal estimation. *SIAM J. Appl. Math.* 14 (1966), 998-1031. (T. Kailath) 34 #8869

Classes of signal processing procedures suggested by exact minimum mean square error procedures. *SIAM J. Appl. Math.* 14 (1966), 1199-1224. (K. S. Miller) 34 #7273

Sweschnikow, A. A. See Svešnikov, A. A.

Swetits, J. J.

Summability of a Cauchy product series. *Proc. Amer. Math. Soc.* 23 (1969), 144-146. (G. M. Petersen) 39 #5987

Generalized Borel summability of Fourier series. *J. Math. Anal. Appl.* 30 (1970), 308-312. (B. Wood) 41 #724

A note on Schwarz differentiability. *Amer. Math. Monthly* 75 (1968), 1093-1095. (C. E. Aull) 39 #1603

(with King, J. P.) Positive linear operators and summability. *J. Austral. Math. Soc.* 11 (1970), 281-290. (K. Chandrasekhara Rao) 42 #2213

Świątak, Halina

On the algebraic structure of gravitational fields admitting of 5- and 6-parameter groups of motions. *Acta Phys. Polon.* 25 (1964), 161-168. (J. Charles-Ranaudie) 29 #4582

A construction of continuous functions without the usual, the approximative and the distributional derivatives. *Ann. Polon. Math.* 17 (1965), 13-23. (J. L. B. Cooper) 31 #282

Physical and geometric properties of the gravitational fields admitting groups of motions. (Polish. English summary) *Zeszyty Nauk. Uniw. Jagiello.* 104 *Prace Fiz. zeszyt* 3 (1965), 109-114. (W. M. Tulczyjew) 35 #1323

On the equation $\phi(x + y)^2 = [\phi(x)g(y) + \phi(y)g(x)]^2$. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 10 (1965), 97-104. (J. Aczél) 34 #527a

On the equation $\phi(x + y)g(x + y) = [\phi(x)g(y) + \phi(y)g(x)]^2$. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 10 (1965), 105-106. (J. Aczél) 34 #527b

On the equation $\phi(\sum x_i) = \sum a_{ij}\phi(x_i)g(x_j)$. *Publ. Math. Debrecen* 13 (1966), 109-115. (J. Aczél) 34 #3150

Connections between symmetry or asymmetry of the equations $f_1(x_1 + \cdots + x_n) = \sum(i_1,\cdots,i_n)f_1(x_{i_1}) \cdots f_n(x_{i_n})$ and their solutions. *Ann. Polon. Math.* 19 (1967), 257-269. (M. Hosszú) 36 #5553a

On some symmetrical equations of the form $f_1(x_1 + \cdots + x_n) = \sum_{(i_1,\cdots,i_n)} f(x_{i_1}) \cdots f_n(x_{i_n})$. *Ann. Polon. Math.* 19 (1967), 271-286. (M. Hosszú) 36 #5553b

On the functional equations $f_1(x_1 + \cdots + x_n)^2 = [\sum_{(i_1,\cdots,i_n)} f_1(x_{i_1}) \cdots f_n(x_{i_n})]^2$. *Ann Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 49-52. (J. Aczél) 39 #3180

On the regularity of the distributional and continuous solutions of the functional equations $\sum_{i=1}^{k} a_i(x,t)f(x + \phi_i(t)) = b(x,t)$. *Aequationes Math.* 1 (1968), 6-19. (R. A. Rosenbaum) 43 #5196

Remarks on the functional equation $f(x + y - xy) + f(xy) = f(x) + f(y)$. *Aequationes Math.* 1 (1968), 239-241. (M. Hosszú) 38 #4845

On the functional equation $f(x + y - xy) + f(xy) = f(x) + f(y)$. *Mat. Vesnik* 5(20) (1968), 177-182. (B. Schweizer) 38 #4844

On the regularity of the locally integrable solutions of the functional equations $\sum_i a_i(x,t)f(x + \phi_i(t)) = 0$. *Publ. Math. Debrecen* 15 (1968), 49-55. (R. A. Rosenbaum) 43 #5195

A generalization of the Haruki functional equation. *Ann. Polon. Math.* 22 (1969/70), 371-376. (R. A. Rosenbaum) 43 #5197

On two functional equations connected with the equation $\phi(x + y) + \phi(x - y) = 2\phi(x) + 2\phi(y)$. *Aequationes Math.* 5 (1970), 3-9. (J. Aczél) 43 #2380

Swiatkowski, Martin

Wronskian identities. *Pi Mu Epsilon J.* 5 (1971), 191-194. (Editors) 44 #6722

Świątkowski, Tadeusz

On the conditions of monotonicity of functions. *Fund. Math.* 59 (1966), 189-201. (A. M. Bruckner) 33 #7472

On the holomorphism of the integral with respect to a complex parameter. *Colloq. Math.* 16 (1967), 61-65. (C. Tanaka) 35 #1765

On some generalization of the notion of asymmetry of functions. *Colloq. Math.* 17 (1967), 77-91. (S. Marcus) 36 #1595

Swick, David A.

Walsh function generation. *IEEE Trans. Information Theory* IT-15 (1969), 167. (Editors) 39 #1888

(with Byrnes, J. S.) Instant Walsh functions. *SIAM Rev.* 12 (1970), 131. (R. R. Goldberg) 41 #8908

Swick, K. E.

Convergence of solutions of third order differential equations. *Canad. Math. Bull.* 12 (1969), 779-792. (J. S. Bradley) 41 #2131

On the boundedness and the stability of solutions of some non-autonomous differential equations of the third order. *J. London Math. Soc.* 44 (1969), 347-359. (D. Willett) 38 #4777

A boundedness result for the solutions of certain third order differential equations. *Ann. Mat. Pura Appl.* (4) 86 (1970), 169-180. (R. Grimmer) 43 #643

Asymptotic behavior of the solutions of certain third order differential equations. *SIAM J. Appl. Math.* 19 (1970), 96-102. (P. F. Hsieh) 42 #2114

Invariant sets and convergence of solutions of nonlinear differential equations. *J. Differential Equations* 10 (1971), 204-218. (T. Yoshizawa) 44 #5575

Swieca, André

(with Kastler, Daniel; Robinson, Derek W.) Conserved currents and associated symmetries; Goldstone's theorem. *Comm. Math. Phys.* 2 (1966), 108-120. (R. F. Streater) 33 #5254

Swieca, J. A.

(with Haag, R.) When does a quantum field theory describe particles? *Comm. Math. Phys.* 1 (1965), 308-320. (K. Hepp) 33 #5261

Charges as integrals of densities. *Phys. Rev. Lett.* 17 (1966), 974-975. (Author's summary) 34 #3924

Świerczewski, M.

(with Sloyer, C.; Gulden, S.) Continuation in metric spaces. *Fund. Math.* 66 (1969/70), 199-201. (M. L. Marx) 41 #2036

Świerczkowski, S.

(with Lickorish, W. B. R.) A characterization of the ball. *Colloq. Math.* 13 (1964/65), 235-246. (H. R. Gluck) 31 #3928

Embedding theorems for local analytic groups. *Acta Math.* 114 (1965), 207-235. (W. T. van Est) 31 #4858

Cohomology of local group extensions. *Trans. Amer. Math. Soc.* 128 (1967), 291-320. (W. T. van Est) 35 #1695

Abstract kernels and cohomology. *J. Austral. Math. Soc.* 8 (1968), 544-546. (C. K. Megibben) 37 #6354

Triads in the homology of categories. *Reports of the Midwest Category Seminar. IV, pp.* 114-125. *Lecture Notes in Mathematics, Vol.* 137. *Springer, Berlin,* 1970. (M. Barr) 41 #8498

Finite subgroups of locally compact groups. *Colloq. Math.* 21 (1970), 53-54. (M. Rajagopalan) 43 #7552

Homogeneous Lie algebras. *Bull. Austral. Math. Soc.* 4 (1971), 349-353. (B. Kolman) 43 #6277

Swift, Arthur R.

(with Lee, Benjamin W.) Singular Bethe-Salpeter scattering amplitudes. *J. Mathematical Phys.* 5 (1964), 908-921. (H. Ekstein) 31 #4379

Dispersion relations for analytically continued partial-wave amplitudes in potential theory. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1119-1137. (V. de Alfaro) 32 #3579

(with Lee, Benjamin W.) Dynamical basis of the sum rule $2\Xi_-^- = \Lambda_- + \sqrt{3}\Sigma_0^+$. *Phys. Rev.* (2) 136 (1964), B228-B230. (S. P. Rosen) 31 #3078

Swift, Calvin T.

(with Knop, Charles M.) A note on the radiation conductance of an axial slot on a cylinder. *J. Res. Nat. Bur. Standards Sect. D* 69D (1965), 447-451. (H. Bremmer) 32 #760

Swift, Jonathan Dean

Existence and construction of non-desarguesian projective planes. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 1, *Ist. Naz. Alta Math., pp.* 153-163. *Ediz. Cremonese, Rome,* 1965. (P. Dembowski) 32 #6316

Quasi-Steiner systems. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 40-44. (N. S. Mendelsohn) 37 #6196

A generalized Steiner problem. (Italian summary) *Rend. Mat.* (6) 2 (1969), 563-569. (L. D. Baumert) 40 #7125

Swiger, James M.

Application of the theory of minimum-normed operators to optimum-control-system problems. *Advances in Control Systems, Vol.* 3, *pp.* 151-218. *Academic Press, New York,* 1966. (R. Conti) 35 #2669

Swindel, Benee F.

On the bias of some least-squares estimators of variance in a general linear model. *Biometrika* 55 (1968), 313-316. (L. A. Aroian) 38 #3982

Swineshead, Richard See Suiseth, Richard.

Swingle, Paul M.

(with Dickman, R. F., Ju.; Kelley, R. L.; Rubin, L. R.) Semigroups and clusters of indecomposability. *Fund. Math.* 56 (1964), 21-33. (F. Burton Jones) 30 #3452

(with Dickman, R. F., Jr.; Rubin, L. R.) Another characterization of the *n*-sphere and related results. *Pacific J. Math.* 14 (1964), 871-878. (M. L. Curtis) 30 #569

(with Davis, Harvey S.) Extended topologies and iteration and recursion of set-functions. *Portugal. Math.* 23 (1964), 103-129. (M. L. Curtis) 36 #5877

(with Dickman, R. F., Jr.; Rubin, L. R.) Irreducible continua and generalization of hereditarily unicoherent continua by means of membranes. *J. Austral. Math. Soc.* 5 (1965), 416-426. (R. H. Rosen) 32 #6424

(with FitzGerald, R. W.) Core decompositions of continua. *Fund. Math.* 61 (1967), 33-50. (J. J. Charatonik) 36 #7110

Swinnerton-Dyer, H. P. F.

Rational zeros of two quadratic forms. *Acta Arith.* 9 (1964), 261-270. (D. J. Lewis) 29 #4734

(with Birch, B. J.) Notes on elliptic curves. II. *J. Reine Angew. Math.* 218 (1965), 79-108. (D. J. Lewis) 31 #3419

On the formal stability of the solar system. *Proc. London Math. Soc.* (3) 14a (1965), 265-287. (D. Brouwer) 31 #5667

An application of computing to class field theory. *Algebraic Number Theory (Proc. Instructional Conf., Brighton, 1965), pp.* 280-291. *Thompson, Washington, D. C.,* 1967. (K. Masuda) 36 #2595

The conjectures of Birch and Swinnerton-Dyer, and of Tate. *Proc. Conf. Local Fields (Driebergen, 1966), pp.* 132-157. *Springer, Berlin,* 1967. (Y. Nakai) 37 #6287

The use of computers in the theory of numbers. *Proc. Sympos. Appl. Math., Vol. XIX, pp.* 111-116. *Amer. Math. Soc., Providence, R. I.,* 1967. (J. D. Swift) 38 #4389 (with Bombieri, E.) On the local zeta function of a cubic threefold. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 1-29. (O. H. Körner) 35 #2894

The zeta function of a cubic surface over a finite field. *Proc. Cambridge Philos. Soc.* 63 (1967), 55-71. (D. J. Lewis) 34 #4256

$A^4 + B^4 = C^4 + D^4$ revisited. *J. London Math. Soc.* 43 (1968), 149-151. (B. Stolt) 37 #2685

On a problem of Littlewood concerning Riccati's equation. *Proc. Cambridge Philos. Soc.* 65 (1969), 651-662. (J. O. C. Ezeilo) 43 #2285

(with Rankin, F. K. C.) On the zeros of Eisenstein series. *Bull. London Math. Soc.* 2 (1970), 169-170. (J. Lehner) 41 #5298

The birationality of cubic surfaces over a given field. *Michigan Math. J.* 17 (1970), 289-295. (J. C. Fogarty) 43 #4825

Swinson, G. E.

(with Randolph, P. H.) The discrete max-min problem. *Naval Res. Logist. Quart.* 16 (1969), 309-314. (B. Gluss) 42 #1496

Swirles, Bertha. See Jeffryts, Bertha Swirles.

Swistak, J. M.

A note on Fermat's last theorem. *Amer. Math. Monthly* 76 (1969), 173-174. (L. Carlitz) 39 #1404

Switzer, Paul

Significance probability bounds for rank orderings. *Ann. Math. Statist.* 35 (1964), 891-894. (S. S. Gupta) 29 #5347

A random set process in the plane with a Markovian property. *Ann. Math. Statist.* 36 (1965), 1859-1863. (P. Whittle) 32 #481

Reconstructing patterns from sample data. *Ann. Math. Statist.* 38 (1967), 138-154. (P. A. P. Moran) 34 #3744

Switzer, R. M.

(with Ray, N.) On SU × SU-bordism. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 137-150. (Edgar H. Brown, Jr.) 41 #9270

Swokowski, E. W.

(with Feller, E. H.) The ring of endomorphisms of a torsion-free module. *J. London Math. Soc.* 39 (1964), 41-42. (W. E. Deskins) 31 #3461

(with Feller, E. H.) Prime modules. *Canad. J. Math.* 17 (1965), 1041-1052. (Y. Utumi) 32 #1225

(with Feller, E. H.) Semi-prime modules. *Canad. J. Math.* 18 (1966), 823-831. (F. W. Anderson) 34 #7576

Swong, Khyson

A representation theory of continuous linear maps. *Math. Ann.* 155 (1964), 270-291; *errata, ibid.* 157 (1964), 178. (Ivan Singer) 29 #2642

A representation theory of continuous linear maps. *Math. Ann.* 159 (1965), 76. (Editors) 31 #1550

Sworder, David D.

Minimax control of discrete time stochastic systems. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 433-449. (1965). (Y.-C. Ho) 31 #5759

Control of a linear system with a Markov property. *IEEE Trans. Automatic Control* AC-10 (1965), 294-300. (R. F. Drenick) 32 #9115

(with Aoki, Masanao) On control system equivalents of some decision theoretic theorems. *J. Math. Anal. Appl.* 10 (1965), 424-438. (T. Pitcher) 30 #4619

* Optimal adaptive control systems. Mathematics in Science and Engineering. Vol. 25. *Academic Press, New York-London,* 1966. xi + 187 *pp.* (M. Aoki) 35 #2678

A study of the relationship between identification and optimization in adaptive control problems. *J. Franklin Inst.* 281 (1966), 198-213. 32 #7307

Optimal control of discrete-time stochastic systems. *J. Math. Anal. Appl.* 15 (1966), 253-263. (Petr Mandl) 34 #2364

On the control of stochastic systems. I, II. *Internat. J. Control* (1) 6 (1967), 179-188; *ibid.* 10 (1969), 271-277. (C. P. Tsokos) 41 #6606

Feedback control of a class of linear stochastic systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 34-44. *Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #1179

Minimax controllers for systems with unknown parameters. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 751-752. *Inst. Electr. Electron. Engineers, New York,* 1968. 40 #2378

On the stochastic maximum principle. *J. Math. Anal. Appl.* 24 (1968), 627-640. (H. J. Kushner) 38 #3068

Feedback control of a class of linear systems with jump parameters. *IEEE Trans. Automatic Control* AC-14 (1969), 9-14. (Author's summary) 40 #5311

(with Rogers, R. O.) Approximate minimum energy control. *AIAA J.* 8 (1970), 2242-2244. (V. F. Dem'janov) 42 #4264

(with Elliott, D. F.) Applications of a simplified multi-dimensional stochastic approximation algorithm. *IEEE Trans. Automatic Control* AC-15 (1970), 101-104. (O. Gürel) 43 #2830

Uniform performance-adaptive renewal policies for linear systems. *IEEE Trans. Automatic Control* AC-15 (1970), 581-583. (G. M. Ewing) 43 #3030

A note on filtering for independent increment processes. *IEEE Trans. Information Theory* IT-16 (1970), 224-226. (M. Zakai) 43 #8431

(with Pierce, Bill D.) Bayes and minimax controllers for a linear system with stochastic jump parameters. *IEEE Trans. Automatic Control* AC-16 (1971), 300-307. 44 #8029

Sya Do-šin. See Hsia Tao-hsing.

Syamala Devi, V.

Bases for irreducible representations of the unitary group in the symplectic group chain. *J. Mathematical Phys.* 11 (1970), 162-168. (J.-L. Calais) 41 #7954

(with Venkatarayudu, T.) Bases for irreducible representations of U_{2n} in the chain $U_{2n} \supset U_n + U_n$. *J. Mathematical Phys.* 11 (1970), 169-173. (J.-L. Calais) 41 #7955

Bases for representations of the unitary group in the rotation group chain. (Spanish summary) *Rev. Mexicana Fís.* 19 (1970), 51-65. (A. O. Barut) 42 #2746

Syc, Czesław

Computer-aided generating of trees and *k*-trees of multigraphs based on the method of structural numbers. (Polish. English, French, German and Russian summaries) *Rozprawy Elektrotech.* 15 (1969), 495-513. (P. Vondráček) 42 #2876

Syčev, A. V.

Some properties of moduli. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1108-1119. (P. Caraman) 32 #7742

Quasiconformal mappings in space. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 298-300. (M. K. Vamanamurthy) 34 #338

Quasiconformal space transformations which satisfy a Hölder condition at boundary points. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 38-39. (P. Caraman) 35 #6826

Moduli of families of curves and surfaces. (Russian) *Metrical Questions of the Theory of Functions and Mappings, No.* 1 *(Proc. Colloq. on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk,* 1968*) (Russian), pp.* 201-209. *Izdat. "Naukova Dumka", Kiev,* 1969. (P. Caraman) 43 #3445

Moduli and the measurability of surfaces. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 298-300. (Gr. Stanilow) 42 #3274

Quasiconformal space mappings that are Hölder continuous at the boundary points. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 183-192. (P. Caraman) 41 #7097

(with Sedo, R. I.) The continuation of quasiconformal mappings to multidimensional spaces of higher dimension. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 1278-1279. (V. Mićić) 43 #7628

Syčev, V. V.

(with Avanesova, N. S.) On uniformly accelerated motion of a planar plate in a viscous compressible gas. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 1067-1076. (V. N. Constantinescu) 30 #4446

(with Matveeva, N. S.) On the theory of strong interaction of the boundary layer with an inviscid hypersonic flow. *Prikl. Mat. Meh.* 29 (1965), 644-657 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 770-784 (1966). (K. Stewartson) 34 #7114

Syčeva, N. M.

* (with Borovkov, A. A.; Markova, N. P.) Таблицы для критериев Н. В. Смирнова однородности двух выборок. (Russian) [Tables for N. V. Smirnov's criteria of the homogeneity of two samples] *Redakcionno-Izdatel'skiĭ Otdel Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1964. 139 *pp. (errata insert)* (J. Hájek) 42 #2623

(with Borovkov, A. A.) Certain asymptotically optimal nonparametric tests. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 385-418. (W. Hoeffding) 38 #5359

(with Borovkov, A. A.) On asymptotically optimal nonparametric criteria. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969*), pp.* 259-266. *Cambridge Univ. Press, London,* 1970. (W, Hoeffding) 43 #2812

Syčeva, V. G.

On certain special classes of congruences of straight lines in the four-dimensional projective space P_4. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 64-72. (Z. Nádeník) 34 #8301

Canonical frame of congruences of straight lines in P_4. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 73-78. (Z. Nádeník) 34 #8302

(with Voĭtenko, M. A.) Conjugation of the couple T_1 and T in P_4. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 221-224. (K. Svoboda) 34 #711

Canonical frames for line congruences in four-dimensional projective space P_4. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 190 (1965), 69-88. (K. Svoboda) 36 #7048

Congruences of straight lines in P_4 which possess osculating linear families. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 222 (1965), 34-43. (W. Wrona) 35 #7229

Sychev, V. V. See Syčev, V. V.

Sydler, J. P.

Conditions nécessaires et suffisantes pour l'équivalence des polyèdres de l'espace euclidien à trois dimensions. *Comment. Math. Helv.* 40 (1965), 43-80. (H. Freudenthal) 33 #632

Aperçus sur la vie et sur l'oeuvre de Jakob Steiner. *Enseignement Math.* (2) 11 (1965), 240-257. (A. Aaboe) 32 #1098

Sydnor, Clyde L.

Series representation of the solution of the integral equation for emissivity of cavities. *J. Opt. Soc. Amer.* 59 (1969), 1288-1290. (Y. Hayashi) 40 #5186

Syed, Ansaruddin

A generating functional for generalised retarded operators. *J. Natur. Sci. and Math.* 6 (1966), *no.* 1, 105-110. (G. Heber) 35 #2591

Euler's angles in n dimension. *J. Natur. Sci. and Math.* 9 (1969), 271-281. (J. Hoschek) 41 #7513

Sykes, J.

On an approximation by Janner, Van Hove and Verboven. *Physica* 31 (1965), 1224-1226. (E. J. Verboven) 33 #2321

(with Brooker, G. A.) Sound propagation and relaxation times for a Fermi liquid. *Ann. Physics* 61 (1970), 387-424. (D. ter Haar) 42 #7210

Sykes, J. B.

(See Landau, L. D.; Lifšic, E. M., 39 #3780)

Sykes, M. F.

(with Essam, J. W.) Exact critical percolation probabilities for site and bond problems in two dimensions. *J. Mathematical Phys.* 5 (1964), 1117-1127. (S. Sherman) 29 #1977

(with Essam, J. W.; Gaunt, D. S.) Derivation of low-temperature expansions for the Ising model of a ferromagnet and an antiferromagnet. *J. Mathematical Phys.* 6 (1965), 283-298. (R. J. Rubin) 30 #1826

(with Essam, J. W.; Heap, B. R.; Hiley, B. J.) Lattice constant systems and graph theory. *J. Mathematical Phys.* 7 (1966), 1557-1572. (M. E. Fisher) 34 #3951

(with Essam, J. W.) Percolation processes. I. Low-density expansion for the mean number of clusters in a random mixture. *J. Mathematical Phys.* 7 (1966), 1573-1581. (M. E. Fisher) 34 #3952

Sylie Guillot le Garff, Nicole. See Guillot le Garff, Nicole-Sylie.

Sylvester, Richard J.

(with Meyer, F.) Two point boundary problems by quasilinearization. *J. Soc. Indust. Appl. Math.* 13 (1965), 586-602. (R. Kalaba) 33 #6008

Sylwester, Kaliski. See Kaliski, Sylwester.

Symanzik, Kurt

Application of functional integrals to Euclidean quantum field theory. *Analysis in function space, pp.* 197-206. *M.I.T. Press, Cambridge, Mass.,* 1964. (G. Heber) 29 #4432

Application of functional integrals to euclidean quantum field theory. *Proc. Conf. on Theory and Appl. of Analysis in Function Space (Dedham, Mass.,* 1963*), pp.* 197-206. *The M.I.T. Press, Cambridge, Mass.,* 1964. (R. Haag) 31 #4415

A method for Euclidean quantum field theory. *Mathematical Theory of Elementary Particles (Proc. Conf., Dedham, Mass.,* 1965*), pp.* 125-140. *M.I.T. Press, Cambridge, Mass.,* 1966. (G. Heber) 35 #1312

Euclidean quantum field theory. I. Equations for a scalar model. *J. Mathematical Phys.* 7 (1966), 510-525. (W. Güttinger) 32 #5135

Renormalizable models with simple symmetry breaking. I. Symmetry breaking by a source term. *Comm. Math. Phys.* 16 (1970), 48-80. (W. Güttinger) 42 #1444

Symboan, G. See Sîmboan, Gabriel.

Symm, George T.

An integral equation method in conformal mapping. *Numer. Math.* 9 (1966), 250-258. (D. Elliott) 34 #7056

Numerical mapping of exterior domains. *Numer. Math.* 10 (1967), 437-445. (I. N. Rabinowitz) 36 #3525

Conformal mapping of doubly-connected domains. *Numer. Math.* 13 (1969), 448-457. (John Todd) 40 #3736

Symon, Keith R.

(with Moses, R. W., Jr.) Impossibility of a defocusing quadrupole-lens system. *Phys. Rev. Lett.* 25 (1970), 1356-1357. (J. H. Harris) 44 #7838

Symonds, Gifford H.

Deterministic solutions for a class of chance-constrained programming problems. *Operations Res.* 15 (1967), 495-512. (B. Bereanu) 35 #5224

Chance-constrained equivalents of some stochastic programming problems. *Operations Res.* 16 (1968), 1152-1159. (G. Tintner) 38 #3040

Symonds, P. S.

(with Ting, T. C. T.) Longitudinal impact on viscoplastic rods—linear stress-strain rate law. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 199-207. (G. Eason) 29 #3064

(with Ting, Thomas C. T.) Longitudinal impact on viscoplastic rods—approximate methods and comparisons. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 611-620. (S. C. Hunter) 30 #2768

Synge, John L.

Relativity based on chronometry. *Recent developments in general relativity, pp.* 441-448. *Pergamon, Oxford; PWN--Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2022

Tensorial integral conservation laws in general relativity. *Les théories relativistes de la gravitation (Royaumont,* 1959*), pp.* 75-83. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2037

The Hamiltonian method and its application to water waves. *Proc. Roy. Irish Acad. Sect. A* 63, 1-34 (1963). (F. Ursell) 31 #2918

Introduction to general relativity. *Relativité, Groupes et Topologie (Lectures, Les Houches,* 1963 *Summer School of Theoret. Phys., Univ. Grenoble), pp.* 1-88. *Gordon and Breach, New York,* 1964. (P. Roman) 29 #5593

The Petrov classification of gravitational fields. *Comm. Dublin Inst. Adv. Studies Ser. A No.* 15 (1964), v + 51 *pp.* (F. A. E. Pirani) 30 #3740

Classical statistical mechanics and the one-dimensional oscillator. *Proc. Roy. Irish Acad. Sect. A* 64, 1-15 (1964). (R. Balescu) 30 #5749

(with Florides, P. S.) Stationary gravitational fields due to single bodies. *Proc. Roy. Soc. Ser. A* 280 (1964), 459-465. (H. Rund) 29 #3217

Application of the Laplace transform to the inhomogeneous Klein-Gordon equation. *J. London Math. Soc.* 40 (1965), 667-670. (C. H. Wilcox) 32 #1460

A Klein-Gordon model particle. *Proc. Roy. Soc. Ser. A* 283 (1965), 14-17. (J. M. Jauch) 30 #5703

(with Florides, P. S.; Yukawa, T.) Stationary gravitational fields due to symmetrical systems of bodies. *Proc. Roy. Soc. Ser. A* 284 (1965), 32-39. (J. M. A. Danby) 30 #4578

Two isomorphs of the four-colour problem. *Canad. J. Math.* 19 (1967), 1084-1091. (P. Ungar) 35 #5360

Timelike helices in flat space-time. *Proc. Roy. Irish Acad. Sect. A* 65, 27-42 (1967). (H. Rund) 34 #8784

Thin shells and relative probabilities in Hilbert space. *Proc. Roy. Irish Acad. Sect. A* 65, 77-91 (1967). (D. A. Uhlenbrock) 36 #1179

(with McCrea, J.) On certain boundary-value problems with strong vanishing on the boundary. *Quart. Appl. Math.* 24 (1967), 355-364. (J. Ignaczak) 35 #7247

Regular null networks in flat space-time. *Proc. Roy. Irish Acad. Sect. A* 66, 41-68 (1968). (A. G. Walker) 38 #1591

Point-particles and energy tensors in special relativity. *Ann. Mat. Pura Appl.* (4) 84 (1970), 33-59. (J. Charles-Renaudie) 42 #4175

Equations of motion in general relativity. *Proc. Roy. Irish Acad. Sect. A* 69, 11-38 (1970). (W. B. Bonnor) 41 #5024

Riemannian metric in Gibbsian phase-space. *Proc. Roy. Soc. London Ser. A* 319 (1970), 307-317. (M. Pinl) 42 #7116

Fixed points for infinitesimal Poincaré transformations in Minkowskian space-time. *Bull. London Math. Soc.* 3 (1971), 163-166. (N. D. Sengupta) 44 #5085

Synnačke, Ju.

The almost integral operators in K-spaces. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 13, 81-89. (T. Ando) 44 #7327

Synowiec, John

(with DeCicco, John) Elements of linear polygenic transformations and pseudo-angles of a complex vector space. *Riv. Mat. Univ. Parma* (2) 10 (1969), 55-70. (Ph. Noverraz) 44 #7422

Syrkin, G. I.

A criterion for the validity of the translation theorem in the theory of normal algorithms. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 270-272. (E. M. Fels) 35 #1479

Syrmus, I. See Sõrmus, I.

Syrmus, T. See Sõrmus, T.

Syrovoĭ, V. A.

Group-invariant solutions of the equations of a stationary space beam of charged particles. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1963, *no.* 3, 26-35. 32 #5023

(with Pascenko, N. T.) Group properties of the equations of motion of an incompressible conducting fluid. *Magnit. Gidrodinamika* 3 (1967), 60-65 *(Russian); translated as Magnetohydrodynamics* 3 (1967), 36-40 (1969). (E. G. Broadbent) 42 #5515

Solving the Cauchy problem for the Laplace equation in the three-dimensional case with special reference to the problem of shaping of intense charged-particle beams. *Prikl. Mat. Meh.* 34 (1970), 4-16 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 1-12. (S. A. Berger) 42 #5518

Syrový, Antonín

Energy distribution in the spectrum of Routh membrane. (Czech. Russian and English summaries) *Sb. Vysoké. Učení Tech. Brno* 1964, 231-252. (A. Sawczuk) 32 #8588

Syski, R.

Markovian queues. (With discussion) *Proc. Sympos. Congestion Theory (Chapel Hill, N. C., 1964), pp.* 170-227. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1965. (J. F. C. Kingman) 32 #6576

Syskin, S. A.

Hypersolvable groups of automorphisms of finite solvable groups. (Russian) *Algebra i Logika* 7 (1968), *no.* 3, 105-107. (K. Strambach) 40 #7358

(with Mazurov, V. D.; Sitnikov, V. M.) Finite groups whose solvable subgroups are 2-closed or 2′-closed. (Russian) *Algebra i Logika* 9 (1970), 313-341. (O. H. Kegel) 44 #311

Complementability in finite groups. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 477-480. (H. Schwerdtfeger) 44 #5372

Sysoev, L. P.

Detection of a random signal received on several channels with inter-correlated noises. *Avtomat. i Telemeh.* 26 (1965), 1357-1370 *(Russian. English summary); translated as Automat. Remote Control* 26 (1965), 1336-1348. 32 #5440

Parameter estimation of signals modulated by random processes. *Avtomat. i Telemeh.* 26 (1965), 1709-1719 *(Russian. English summary); translated as Automat. Remote Control* 26 (1965), 1656-1665. 32 #7329

Sysoeva, F. A.

Generalizations of a certain Hardy inequality. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 140-143. (C. Karanikolov) 33 #240

A generalization of a certain Hilbert type inequality. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 72-76. (S. J. Sidney) 37 #2926

Sytaja, G. N.

Limiting distribution of a certain class of functionals of a sequence of sums of independent random variables. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 53-55. (K. Balagangadharan) 29 #2838

On a multiple stochastic integral. (Russian. English summary) *Ukrain. Mat. Ž.* 16 (1964), 351-364. (R. G. Laha) 29 #5280

The limit distribution of a certain class of functionals of a sequence of sums of independent random variables. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 799-810. (R. G. Laha) 30 #5352

Letter to the editor. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 2, 142. (R. G. Laha) 32 #6535

Limit theorems for some functionals of random walks. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 483-492. (R. Theodorescu) 35 #7384

A limit theorem for an integral with a periodic kernel of a Brownian motion. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 130-135. (K. Krickeberg) 35 #3754

The limit distribution of multiple integrals of a Brownian process. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 845-852. (G. E. Denzel) 39 #4936

The admissible translations of weighted Gaussian measures. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 527-531. (A. Badrikian) 42 #6894

The density of weighted Gaussian measures in the case of absolutely continuous shifts. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 193-204. (T. Neubrunn) 44 #1786

Szabados, J.

(with Kis, O.) Remarks on the convergence of Lagrange interpolation. (Russian. English summary) *Acta Math. Acad. Sci. Hungar.* 16 (1965), 389-430. (G. G. Lorentz) 37 #5573

On the convergence of Lagrange interpolation for certain sets of functions. (Russian) *Acta Math. Acad. Sci. Hungar.* 17 (1966), 31-44. (G. Meinardus) 33 #6215

On a problem of P. Erdős. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 155-157. (P. Erdős) 33 #1619

On the convergence of the interpolatory quadrature procedures in certain classes of functions. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 97-111. (W. J. Kotzé) 35 #3338

(with Freud, G.) Rational approximation to x^{α}. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 393-399. (G. Meinardus) 36 #4221

Structural properties of continuous functions connected with the order of rational approximation. I. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 95-102. (K. Tarumoto) 36 #5575a

Generalization of two theorems of G. Freud concerning the rational approximation. *Studia Sci. Math. Hungar.* 2 (1967), 73-80. (Y. Ikebe) 35 #5829

(with Freud, G.) On rational approximation. *Studia Sci. Math. Hungar.* 2 (1967), 215-219. (Y. Ikebe) 35 #5830

Negative results in the theory of rational approximation. *Studia Sci. Math. Hungar.* 2 (1967), 385-390. (O. Shisha) 38 #4867

Rational approximation in certain classes of functions. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 81-85. (Y. Ikebe) 37 #659

Structural properties of continuous functions connected wit the order of rational approximation. II. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 95-102. (K. Tarumoto) 36 #5575b

Remarks on a paper of A. A. Gončar and some connected problems in the theory of rational approximation. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 11 (1968), 17-26. (R. P. Boas Jr.) 39 #4566

Rational approximation in the complex unit circle. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 11 (1968), 105-108. (E. B. Saff) 39 #4407

(with Freud, G.) Rational approximation on the whole real axis. *Studia Sci. Math. Hungar.* 3 (1968), 201-209. (E. W. Cheney) 38 #2495

Rational approximation of analytic functions with finite number of singularities on the real axis. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 159-167. (E. B. Saff) 39 #3000

Note on the divergence of trigonometric interpolation. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 335-338. (A. K. Varma) 40 #4658

Rational approximation in complex domains. *Studia Sci. Math. Hungar.* 4 (1969), 335-340. (E. B. Saff) 40 #4463

(with Freud, G.) Über einseitige Approximation durch Polynome. II. *Acta Sci. Math. (Szeged)* 31 (1970), 59-67. (A. Magnus) 41 #8886

Szablewski, Witold

Ringwirbel im ruhenden Medium innerhalb eines Zylinders. *Monatsb. Deutsch. Akad. Wiss. Berlin* 6 (1964), 161-166. (I. Flügge-Lotz) 29 #3077

Längswirbel in ebener Poiseuillescher Strömung. (English an Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 253-263. (Author's summary) 29 #4355

Querwirbelartige Störungen der laminaren Grundströmung im Innern und Äussern eines rotierenden Zylinders. (English summary) *Z. Angew. Math. Phys.* 15 (1964), 107-115. (W. O. Criminale, Jr.) 29 #4354

Szabó, Árpád

Euclid's terms in the foundations of mathematics. II. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 11 (1961), 1-46. (Editors) 39 #6708

Der älteste Versuch einer definitorisch-axiomatischen Grundlegung der Mathematik. *Osiris* 14 (1962), 308-369. (F. Krafft) 30 #4651

On the notions of "quadratic value" and "geometric mean". *Mat. Lapok* 14 (1963), 277-306. 30 #1911

Die frühgriechische Proportionenlehre im Spiegel ihrer Terminologie. *Arch. History Exact Sci.* 2, 197-270 (1964/65). (G. Huxley) 31 #2111

The transformation of mathematics into deductive science and the beginnings of its foundation on definitions and axioms. *Scripta Math.* 27, 27-48A (1964). (J. E. Hofmann) 29 #1120

The transformation of mathematics into deductive science and the beginnings of its foundation on definitions and axioms. II. *Scripta Math.* 27, 113-139 (1964). (J. E. Hofmann) 29 #5705

* Anfänge der griechischen Mathematik. *R. Oldenbourg, Munich-Vienna,* 1969. 494 *pp.* (M. Folkerts) 41 #5147

The cosine theorem in early Greek geometry. (Hungarian. German summary) *Mat. Lapok* 20 (1969), 277-288. (Author's summary) 42 #2913

Szabo, Attila

(with Reinhardt, William P.) Fredholm method. I. A numeric procedure for elastic scattering. *Phys. Rev. A* (3) 1 (1970), 1162-1169. (C. Froese Fischer) 42 #1365

Szabó, Dániel

Note on a problem of set theory. (Hungarian) *Mat. Lapok* 19 (1968), 147-150. (P. Hamburg) 40 #4921

The possibility of calculation and Abelian properties of series of sums of finite products of terms of infinite series. (Hungarian. English summary) *Mat. Lapok* 20 (1969), 351-356. (A. Meir) 42 #8128

Szabó, István

* (with Rothe, R.) Höhere Mathematik für Mathematiker, Physiker, Ingenieure. Teil VI: Integration und Reihenentwicklung im Komplexen. Gewöhnliche und partielle Differentialgleichungen. Zweite, verbesserte Auflage. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1958. 251 *pp.* (Editors) 29 #1115

* Höhere technische Mechanik. Nach Vorlesungen. Vierte verbesserte und erweiterte Auflage. *Springer-Verlag, Berlin,* 1964. xii + 536 *pp.* (P. P. Teodorescu) 30 #1648

(See also Doetsch, G.; Schäfke, F. W.; Tietz, Horst, 36 #485 Anđelić, T. P.; Aumann, G.; Bauer, F. L.; Bulirsch, R.; Künzi, H. P.; Rutishauser, H.; Samelson, K.; Sauer, R.; Stoer, J., 37 #7115; Collatz, L.; Nicolovius, R.; Törnig, W., 40 #8315; and Hahn, W.; Mammitzsch, V.; Morgenstern, D.; Pöschl, K.; Zander, W., 42 #5480)

Szabó, János

(with Aboni, Ivan) On a generalized Ohn's law in a magnetic plasma. (Russian) *Soobšč. Akad. Nauk Gruzin. SSR* 30 (1963), 721-725. (K. C. Westfold) 31 #4324

Magnetohydrodynamic shock waves. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 75-89. (Author's summary) 29 #3105

Eine Verallgemeinerung des Eckhartschen Einschneidverfahrens. *Publ. Math. Debrecen* 14 (1967), 311-319. (E. Morgantini) 37 #814

Die Verallgemeinerung des Eckhartschen Einschneideverfahrens auf den n-dimensionalen Fall. *Publ. Math. Debrecen* 15 (1968), 181-187. (H. R. Müller) 38 #6434

Einige Bemerkungen zur praktischen Anwendung des zentralen Einschneideverfahrens. *Publ. Math. Debrecen* 16 (1969), 155-160. (E. Morgantini) 42 #2348

Szabo, M. E.

(See Collected papers of Gerhard Gentzen, 41 #6660)

Szadkowski, A.

On a property of a Lapunov function for ordinary differential equations with prescribed phase flow. (Polish and Russian summaries) *Proc. Vibration Problems* 11 (1970), 151-156. (C. S. Coleman) 42 #8023

Szadkowski, Jerzy

Criteria for the non-oscillatory property of the solutions of a system of two second-order differential equations. (Russian. German and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 347-357. (J. M. Skowroński) 33 #7640

Criteria for the non-oscillatoriness of systems of two second-order differential equations. (Polish. Russian and English summaries) *Nonlinear Vibration Problems, Vol.* 6, *pp.* 311-323. *Państw. Wydawn. Nauk., Warsaw,* 1966. (M. Bertolino) 36 #470

Generalization of certain criterion of oscillatory property for systems with n degrees of freedom. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Tech.* 14 (1966), 943-949. (O. Gürel) 37 #3146

Szafirski, Bolesław

Application of the quasi-Čebyšev norms to the construction of the extremal function of F. Leja. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 6 (1961), 59-63. (A. Sharma) 35 #2046

A certain extremal function connected with constrained extremal points. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 6 (1961), 65-69. (A. Sharma) 35 #1809

Constructions of the envelope of holomorphy of arbitrary domains in the space of n complex variables. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 7 (1962), 35-42. (S. Hitotumatu) 33 #5945

Sur une fonction extrémale liée aux moyennes arithmétiques des distances généralisées des couples de points d'un ensemble. *Ann. Polon. Math.* 18 (1966), 345-355. (T. A. Botts) 34 #3539

On the Green's function for second order elliptic differential equations. *Colloq. Math.* 16 (1967), 117-121. (E. Magnese) 36 #6786

A note on the Green's function. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 12 (1968), 57-59. (N. S. Trudinger) 36 #5499

The fundamental solution for second order elliptic differential equations. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 97-107. (C. A. Swanson) 40 #3064

A functional-analytic approach to turbulent convection. *Ann. Polon. Math.* 23 (1970/71), 7-24. (J. Bass) 42 #1402

Szafnicki, Bolesław

On the entropy of systems of operators. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 405-409. (I. K. Marek) 41 #1335

On quantum informational thermodynamics with macrostates defined with respect to several operators. *Dissertationes Math. Rozprawy Mat.* 78 (1970), 44 *pp.* (F. C. Auluck) 43 #1575

Szafraniec, Franciszek Hugon

On a certain sequence of ordinary differential equations. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 9 (1963), 89-91. (E. Baiada) 33 #5981

(with Lasota, A.) Sur les solutions périodiques d'une équation différentielle ordinaire d'ordre n. *Ann. Polon. Math.* 18 (1966), 339-344. (G. H. Meisters) 34 #7887

Existence theorems for discrete boundary problems. *Ann. Polon. Math.* 21 (1968), 73-83. (A. Haimovici) 38 #3638

Note on the existence of periodic solutions of a second order differential equation. *Ann. Polon. Math.* 21 (1968/69), 305-307. (Joseph C. Wilson) 40 #2976

A method of localization of implicit functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom Phys.* 16 (1968), 937-942. (M. Z. Nashed) 39 #6129

A numerical approach to a localization problem of implicit functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 943-946. (M. Z. Nashed) 39 #6130

A method of estimation for the solution of integral and differential equations depending on a parameter. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 947-950. (M. Z. Nashed) 39 #6131

(with Lasota, Andrzej) Application of the differential equations with distributional coefficients to the optimal control theory. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 12 (1968), 31-37. (A. Halanay) 36 #6674

(with Lasota, A.) An axiomatic approach to the problem of the closedness of the set of trajectories in the control theory. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 733-738. (L. Cesari) 41 #2502

Decomposition of operator valued representations of Banach algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 321-324. (R. Arens) 42 #847

Szajcz, Sándor

(with Dobó, Andor) The application of the Mikusiński operational calculus to the approximate solution of nth order linear inhomogeneous differential equations with variable coefficients. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 13 (1963), 355-358. 37 #4611

(with Dobó, Andor) On stochastic problems connected with registration. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 19-28. (I. Vincze) 32 #1867

(with Dobó, Andor) On problems of random placement. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 389-409. (G. Schay) 34 #2087

(with Dobó, Andor) Investigations in the field of reliability theory. (Hungarian. English summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 209-232. (I. Vincze) 39 #3665

Szalay, István

On the absolute summability of Fourier series. *Tôhoku Math. J.* (2) 21 (1969), 523-531. (B. N. Sahney) 41 #5884

Szałek, M.

Error estimates for some variational methods applicable to scattering and radiation problems. *Quart. Appl. Math.* 27 (1969/70), 473-479. (K. C. Westfold) 41 #1293

Szamkołowicz, Lucjan

Remarks on the characterization of a straight line among graphs on open surfaces. (Polish. Russian and English summaries) *Prace Mat.* 7 (1962), 11-18. (H. Hanani) 32 #446

Remarks on finite regular planes. *Colloq. Math.* 10 (1963), 31-37. (W. Jónsson) 29 #1571

Sur une classification des triplets de Steiner. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 125-128. (W. Jónsson) 31 #660

Sulla generalizzazione del concetto delle algebre A_n^3. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 810-814. (O. Wyler) 33 #2753

Alcuni problemi della teoria dei sistemi di Steiner. *Rend. Mat. e Appl.* (5) 24 (1965), 348-359. (F. A. Sherk) 34 #7387

Remarks on algebras and regular finite planes. *Colloq. Math.* 17 (1967), 203-206. (W. Jónsson) 36 #5255

On Steiner manifolds. *Colloq. Math.* 20 (1969), 45-51. (R. Artzy) 39 #1584

(with Borowiecki, M.) Remarques sùr la construction des graphes symétriques. *Comment. Math. Prace Mat.* 13 (1970), 249-253. (W. T. Tutte) 41 #8301

Szamosi, G.

(with Luke, S. K.) On the general relativistic Boltzmann equation. (Italian and Russian summaries) *Nuovo Cimento B* (10) 70 (1970), 100-120. (R. K. Pathria) 43 #4414

Szaniawski, Andrzej

Transonic approximation to the equations of flow. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 903-914. (H. C. Levey) 31 #4300

L'écoulement transsonique dans une tuyère avec un point d'intersection des deux lignes du son. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 643-659. (J. P. Guiraud) 33 #6952

Transonic approximations to the flow through a nozzle. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 79-85. (C. S. Morawetz) 32 #6820

The structure of a weak shock-wave in a viscous heat conducting fluid. (Polish and Russian summaries) *Arch. Mech. Stos.* 18 (1966), 127-144. (E. G. Broadbent) 34 #7115

Multiplicative extension operators and locally connected continua. *Fund. Math.* 65 (1969), 207-217. (V. J. Mancuso) 39 #7572

Szaniecki, Jan

On the decoupling procedure in the Green function method. *Acta Phys. Polon.* 25 (1964), 695-709. (R. Kubo) 30 #2866

Spin wave theory with interactions for a cubic antiferromagnet. *Physica* 31 (1965), 1357-1387. (M. Suzuki) 33 #3716

Szankowski, Andrzej

On factors of the Hilbert cube. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 703-709. (J. E. West) 41 #2614

(See also Sinaĭ, Ja. G., 42 #4705)

Projective potencies and multiplicative extension operators. *Fund. Math.* 67 (1970), 97-113. *(errata insert)* (L. M. Kelly) 41 #4481

Szántai, Tamás

(with Mogyoródi, József) The rarefaction of point processes. (Hungarian. Russian summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 20 (1971), 85-95. (L. Takács) 44 #6065

Szarski, Jacek

On an integro-differential equation. *Ann. Polon. Math.* 14 (1963/64), 321-333. (W. T. Reid) 29 #2623

Sur un système non linéaire d'inégalités différentielles paraboliques. *Ann. Polon. Math.* 15 (1964), 15-22. (J. Elliott) 29 #2542

* Differential inequalities. Monografie Matematyczne, Tom 43. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1965. 256 *pp.* (Z. Opial) 32 #7822

Intégalités différentielles du type parabolique. *Comptes Rendus de la III^{e} Réunion du Groupement des Mathématiciens d'Expression Latine (Namur,* 1965), *pp.* 89-92. *Librairie Universitaire, Louvain,* 1966. (I. Łojczyk-Królikiewicz) 38 #4804

(with Łojczyk-Królikiewicz, I.) On a non-linear system of parabolic integro-differential inequalities in an unbounded region. *Ann. Polon. Math.* 19 (1967), 61-67. (T. W. Mullikin) 35 #5885

Sur un système non linéaire d'inégalités différentielles paraboliques contenant des fonctionnelles. *Colloq. Math.* 16 (1967), 141-145. (J. V. Ryff) 35 #5566

On an overdetermined system of non-linear partial differential equations of the first order. *Colloq. Math.* 18 (1967), 119-124. (V. Lakshmikantham) 36 #1826

Some axiomatic approach to the special theory of relativity. *Comment. Math. Prace Mat.* 14 (1970), 79-85. (C. W. Kilmister) 42 #7223

Szász, Carol

On the axioms which are used as a basis for the definition of an *n*-group. (Romanian. English, German and Russian summaries) *Lucrăr. Şti. Inst. Politehn. Braşov* 7 (1965), 43-47. (O. Wyler) 33 #7291

Szász, Domokos

On the general branching process with continuous time-parameter. *Studia Sci. Math. Hungar.* 2 (1967), 227-247. (J. L. Doob) 37 #7007

On the behavior of a power series at a point on the circumference of convergence. (Hungarian. French summary) *Mat. Lapok* 20 (1969), 347-350. (G. Halász) 42 #3260

Asymptotically uniform sequences of measures. *Studia Sci. Math. Hungar.* 4 (1969), 313-329. (R. Jajte) 40 #3600

(with Woyczyński, W. A.) Poissonian random measures and linear processes with independent pieces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 475-482. (P. M. Lee) 43 #2754

Szász, Ferenc Andor

On topological algebras and rings. I. (Hungarian) *Mat. Lapok* 13 (1962), 256-278. (A. Bovdi (RŽMat 1963 #10 A234)) 34 #5883

Über Ringe, deren endlich erzeugbare echte Unterringe streng zyklische Rechtsideale sind. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 443-453 (1964). (Drury W. Wall) 30 #4783

On topological algebras and rings. II. (Hungarian) *Mat. Lapok* 14 (1963), 74-87. (A. Bovdi (RŽMat 1964 #10 A229)) 34 #5884

Die Halbgruppen, deren endlich erzeugte echte Teilhalbgruppen Hauptrechtsideale sind. *Acta Sci. Math. (Szeged)* 25 (1964), 135-138. (D. R. Brown) 30 #182

Remark on semigroups with unit element. (Hungarian. German summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 397-400. (Author's summary) 38 #5962

Lösung eines Problems bezüglich einer Charakterisierung des Jacobsonschen Radiakals. *Acta Math. Acad/ Sci. Hungar.* 18 (1967), 261-272. (C. Tsai) 39 #5620

Einige Kriterien für die Existenz des Einselementes in einem Ring. *Acta Sci. Math. (Szeged)* 28 (1967), 31-37. (J. K. Goldhaber) 37 #2812

Eine Charakterisierung des Jacobsonschen Radikales eines Ringes. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 53-56. (G. Betsch) 38 #5834

Maximal right ideals of rings. (Hungarian. German summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 473-376. (Author's summary) 39 #244

Radikalbegriffe für Halbgruppen mit Nullelement, die dem Jacobsonschen ringtheoretischen Radikal ännlich sind. *Math. Nachr.* 34 (1967), 157-161. (H.-J. Hoehnke) 36 #290

The sharpening of a result concernign primitive ideals of an associative ring. *Proc. Amer. Math. Soc.* 18 (1967), 910-912. (A. Rosenberg) 37 #244

Hinreichende Bedingung für die Existenz eines Rechtseinselementes in einem Ring. *Publ. Math. Debrecen* 14 (1967), 151-152. (Timon Anderson) 36 #6444

On radicals of rings. I. (Hungarian) *Mat. Lapok* 19 (1968), 259-301. (E. Enochs) 41 #6889

Unabhängigkeitsfragen des Kuroschschen Axiomensystems für die Radikale der Ringe. *Publ. Math. Debrecen* 15 (1968), 287-292. (Timon Anderson) 38 #5835

Die Lösung eines Problems bezüglich des Durchschnittes zweier modularer Rechtsideale in einem Ring. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 211-216. (W. E. Clark) 38 #5831

(with Wiegandt, R.) On the dualization of subdirect embeddings. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 289-302. (C. Năstăsescu) 40 #2739

Simultane Lösung eines halbgruppentheoretischen und eines ringtheoretischen Problems. *Acta Sci. Math. (Szeged)* 30 (1969), 289-294. (H. J. Weinert) 40 #5763

Ein radikaltheoretischer Vereinigungsendomorphismus des Idealverbandes der Ringe. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 73-75. (G. Betsch) 42 #1857

On radicals of rings. II. (Hungarian) *Mat. Lapok* 20 (1969), 99-116. (E. Enochs) 41 #6890

On radicals of rings. III. (Hungarian) *Mat. Lapok* 20 (1969), 311-345. (E. Enochs) 42 #7692

* (with Lajos, Sándor) Bi-ideals in associative rings. DM-70-*Department of Mathematics, Karl-Marx University of Economics, Budapest.* 1970. i + 14 *pp.* (R. A. Melter) 42 #319

(with Wiegandt, R.) On the duality of radical and semisimple objects in categories. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 175-182. (S. A. Amitsur) 41 #8491

Reduktion eines Problems bezüglich der Brown-McCoyschen Radikalringe. *Acta Sci. Math. (Szeged)* 31 (1970), 167-172. (R. L. Kruse) 41 #8456

(with Lajos, S.) Some characterizations of two-sided regular rings. *Acta Sci. Math. (Szeged)* 31 (1970), 223-228. (J. Luh) 43 #283

On Frattini one-sided ideals and subgroups. *Math. Nachr.* 46 (1970), 235-242. (W. E. Clark) 42 #7690

Generalized biideals of rings. I, II. *Math. Nachr.* 47 (1970), 355-360; *ibid.* 47 (1970), 361-364. (T. de W. Jooste) 44 #2780

(with Lajos, S.) Characterizations of strongly regular rings *Proc. Japan Acad.* 46 (1970), 38-40. (A. Mihalëv (RŽMat 1970 #4 A233)) 44 #5345

(with Lajos, S.) Characterizations of strongly regular rings. I. *Proc. Japan Acad.* 46 (1970), 287-289. (A. Mihalëv (RŽMat 1970 #4 A234)) 44 #5346

(with Lajos, S.) On the bi-ideals in associative rings. *Proc. Japan Acad.* 46 (1970), 505-507. (T. de W. Jooste) 43 #7456

Rings with an almost nil adjoint semigroup. *Proc. Japan Acad'* 46 (1970), 593-594. (W. E. Clark) 43 #7470

On radicals of semigroups with zero. I. *Proc. Japan Acad.* 46 (1970), 595-598. (D. R. LaToore) 44 #4130

Almost right quasiregular adjoint semigroups of rings. *Math. Nachr.* 48 (1971), 309-314. (Heinrich Seidel) 44 #6872

The radical property of rings such that every homomorphic image has no nonzero left annihilators. *Math. Nachr.* 48 (1971), 371-375. (R. L. Tangeman) 44 #4031

A class of regular rings. *Monatsh. Math.* 75 (1971), 168-172. (T. de W. Jooste) 44 #4049

Ideals of a ring with modular intersection. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 609-616. (A. G. Heinicke) 44 #4027

Szász, Gábor

* Introduction to lattice theory. Third revised and enlarged edition. MS revised by R. Wiegandt; translated by B. Balkay and G. Tóth. *Academic Press, New York-London; Akadémiai Kiadó, Budapest,* 1963. 299 *pp.* (O. Frink) 29 #3396

On idependent systems of axioms for lattices. *Publ. Math. Debrecen* 10 (1963), 108-115. (J. Kist) 29 #3397

Über Halbgruppen, die ihre Ideale reproduzieren. *Acta Sci. Math. (Szeged)* 27 (1966), 141-145. (E.-A. Behrens) 34 #4399

Results obtained in Hungary in the area of semi-group theory in 1956-1965. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 281-292. 38 #4584

Über Primideale von Halbgruppen. *Publ. Math. Debrecen* 13 (1966), 39-41. (F. C. Biesele) 34 #2745

Über eine Quasiordnung in Halbgruppen. *Publ. Math. Debrecen* 13 (1966), 43-46. (F. C. Biesele) 34 #2729

Generalized complements in modular lattices. *Publ. Math. Debrecen* 14 (1967), 57-61. (R. P. Dilworth) 36 #5041

(See also Contests in higher mathematics (Hungary 1949-1961), 39 #1252)

Halbgruppen, deren Elemente durch Primideale trennbar sind. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 187-189. (J. B. Kim) 36 #3900

Rees factor lattices. *Publ. Math. Debrecen* 15 (1968), 259-266. (V. S. Krishnan) 38 #3190

Independent subsets in semilattices. *Colloq. Math.* 21 (1970), 45-47. (G. Birkhoff) 41 #3335

Szász, Pál

On generalized quasi-step and almost-step parabolas, respectively. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 6 (1963), 13-15. (L. Lorch) 29 #3799

(with Hajós, G.) On a new presentation of the hyperbolic trigonometry by aid of the Poincaré model. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 67-71. (F. A. Sherk) 30 #5202

On a sum concerning the zeros of the Jacobi polynomials with application to the theory of generalized quasi-step parabolas. *Monatsh. Math.* 68 (1964), 167-174. (L. Carlitz) 29 #293

The extended Hermite-Fejér interpolation formula with application to the theory of generalized almost-step parabolas. *Publ. Math. Debrecen* 11 (1964), 85-100. (Gabor Szegö) 30 #4101

On power series of the Fejér type. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 8 (1965), 21-31. (G. Lunc (RŽMat 1966 # 2 B112)) 41 #707

On the pseudo-euclidean geometry due to G. Hessenberg. *Canad. J. Math.* 19 (1967), 1218-1232. (R. Lingenberg) 36 #7013

Application of the end-calculus of Hilbert to the bisectors of the defect of a triangle in the hyperbolic plane. *Math. Nachr.* 33 (1967), 61-72. (G. J. Schellekens) 35 #866

Szász-Felten, Irmgard

Eine unmittelbare Definition des Moduls des vektoriellen Radonschen Masses. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1385-1389. (J. Král) 34 #301

Über den Absolutbetrag von Operatoren in einem vektoriellen L^1-Raum. *Math. Ann.* 177 (1968), 165-180. (F. Cunningham, Jr.) 37 #5679

Über den Absolutbetrag von Operatoren in vektoriellen L^p-Räumen. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 421-428. (F. Cunningham, Jr.) 44 #7330

Száz, Á.

(with Gesztelyi, E.) On generalized convolution quotients. *Publ. Math. Debrecen* 16 (1969), 297-305. (Z. Ditzian) 42 #784

Szczarba, R. H.

On tangent bundles of fibre spaces and quotient spaces. *Amer. J. Math.* 86 (1964), 685-697. (M. F. Atiyah) 30 #2522

(with Hsiang, Wu-Chung) On the tangent bundle of a Grassman manifold. *Amer. J. Math.* 86 (1964), 698-704. (M. F. Atiyah) 30 #2523

(with Hsiang, W. C.) On the embeddability and non-embeddability of sphere bundles over spheres. *Ann. of Math.* (2) 80 (1964), 397-402. (M. A. Kervaire) 30 #5325

(with Kwun, Kyung Whan) Product and sum theorems for Whitehead torsion. *Ann. of Math.* (2) 82 (1965), 183-190. (D. B. A. Epstein) 32 #454

(with Hsiang, W. C.; Levine, Jerome) On the normal bundle of a homotopy sphere embedded in Euclidean space. *Topology* 3 (1965), 173-181. (M. A. Kervaire) 30 #5323

On existence and rigidity of isometric immersions. *Bull. Amer. Math. Soc.* 75 (1969), 783-787; *addendum, ibid.* 76 (1970), 425. (E. F. Stiel) 40 #3471

Szczech, Władysław

The logical achievement of L. Rieger. (Polish. English summary) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 5 (1970), 71-75. (I. G. Rosenberg) 43 #7310

Szczepankiewicz, Eugeniusz

(with Szczerbicka-Waszkiewicz, Ludmiła) Certain classes of correlation functions of stochastic stationary processes in *n*-dimensional Euclidean space. (Polish. Russian and English summaries) *Przegląd Statyst.* 16 (1969), 329-336. (Authors' summary) 42 #5323

A certain correlation function. (Polish. Russian and English summaries) *Przegląd Statyst.* 18 (1971), 181-186. (Z. Šidák) 44 #3384

Szczepkowicz, Jerzy

(See Modern computing methods, 33 #5081)

Szczerba, L. W.

(with Tarski, A.) Metamathematical properties of some affine geometries. *Logic, Methodology and Philos. Sci. (Proc. 1964 Internat. Congr.), pp.* 166-178. *North-Holland, Amsterdam,* 1965. (A. Heyting) 35 #843

(with Kordos, M.) On the $\pi\Sigma$-axiom systems of hyperbolic and some related geometries. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 175-180. (E. Engeler) 39 #6746

Filling of gaps in ordered fields. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 349-352. (N. Sankaran) 42 #3066

Independence of Pasch's axiom. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 491-498. (H. Levi) 42 #8376

Semantic method of proving theorems. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 507-512. (M. R. Krom) 43 #22

(with Szmielew, W.) On the Euclidean geometry without the Pasch axiom. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 659-666. (C. Ballester Pereyra) 43 #2596

Incompleteness degree of elementary Pasch-free geometry. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 213-215. (E. W. Ellers) 44 #3171

Undefinability of order in Pasch-free geometry. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 315-317. (K.-A. Schmitt) 44 #4611

Szczerbicka-Waszkiewicz, Ludmiła

(with Szczepankiewicz, Eugeniusz) Certain classes of correlation functions of stochastic stationary processes in *n*-dimensional Euclidean space. (Polish. Russian and English summaries) *Przegląd Statyst.* 16 (1969), 329-336. (Authors' summary) 42 #5323

Szczyrba, Wiktor

(with Kijowski, J.) On differentiability in an important class of locally convex spaces. *Studia Math.* 30 (1968), 247-257. (H. H. Keller) 38 #1524

Sze, Hoa Min. See Min Szu-he.

Sze, Tsen Hu. See Hu, Sze-tsen.

Szebehely, Victor G.

(See Celestial mechanics and astrodynamics, 32 #3814)

(with Giacaglia, Giorgio E. O.) On the elliptic restricted problem of three bodies. *Astronom. J.* 69 (1964), 230-235. (E. Leimanis) 29 #1045

Perturbations of the regularized equations of the restricted problem of three bodies. *Astronom. J.* 69 (1964), 309-315. (P. C. Chaudhuri) 29 #3239

Selection of regularizing functions. *Astronom. J.* 72 (1967), 370-373. (B. Garfinkel) 36 #2380

Szefer, Gwidon

Solution of certain dual integral equations. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 897-903. (K. N. Srivastava) 31 #3805

Solution of a set of dual integral equations. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 537-545. (J. C. Cooke) 34 #3266

The approximate solution of a fundamental biharmonic problem. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 37 (1965), 527-534. (G. Rieder) 32 #5906

On approximate solutions of the biharmonic problem for space regions. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 40 (1965), 31-37. (N. Boboc) 32 #5914

Einige neue Ergebnisse in der Potentialtheorie. *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 549-552. (O. R. Burggraf) 34 #365

On a certain method of the potential theory for unbounded regions. (Polish and Russian summaries) *Arch. Mech. Stos.* 19 (1967), 367-383. (G. Rieder) 36 #5375

Szegő, Gábor

* (with Pólya, G.) Изопериметрические неравенства в математической физике. (Russian) [Isoperimetric inequalities in mathematical physics] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1962. 336 *pp.* (Editors) 40 #6376

On bi-orthogonal systems of trigonometric polynomials. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 255-273 (1964). (L. Lorch) 29 #3815

* (with Pólya, G.) Aufgaben und Lehrsätze aus der Analysis. Band I: Reihen. Integralrechnung. Funktionentheorie. Dritte berichtigte Auflage. Die Grundlehren der Mathematischen Wissenschaften, Band 19. *Springer-Verlag, Berlin-New York,* 1964. xvi + 338 *pp.* (R. P. Boas, Jr.) 30 #1219a

* (with Pólya, G.) Aufgaben und Lehrsätze aus der Analysis. Band II: Funktionentheorie. Nullstellen. Polynome. Determinanten. Zahlentheorie. Dritte berichtigte Auflage. Die Grundlehren der Mathematischen Wissenschaften, Band 20. *Springer-Verlag, Berlin-New York,* 1964. x + 407 *pp.* (R. P. Boas, Jr.) 30 #1219b

On a problem of the best approximation. *Abh. Math. Sem. Univ. Hamburg* 27 (1964), 193-198. (R. P. Boas, Jr.) 29 #6231

On some problems of approximations. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 3-9. (J. Korevaar) 30 #4102

An outline of the history of orthogonal polynomials. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill.,* 1967*), pp.* 3-11. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. 37 #6509

* (with Pólya, Georg) Aufgaben und Lehrsätze aus der Analysis. Band I: Reihen, Integralrechnung, Funktionentheorie. Vierte Auflage. Heidelberger Taschenbücher, Band 73. *Springer-Verlag, Berlin-New York,* 1970. xvi + 338 *pp.* (From the foreword of the fourth edition) 42 #6160

Szegő, George P.

(with Geiss, G. R.) A remark on "A new partial differential equation for the stability analysis of time invariant control systems". *J. Soc. Indust. Appl. Math. Ser. A Control* 1 (1963), 369-376. (C. Olech) 31 #468

(with Pearson, J. B., Jr.) On the absolute stability of sampled-data systems: The "indirect control" case. *IEEE Trans. Automatic Control* AC-9 (1964), 160-163. (H. A. Antosiewicz) 32 #2226

(with Albertoni, Sergio) Sur une équation intégrale de la théorie du réglage. *C. R. Acad. Sci. Paris* 261 (1965), 29-32. (C. Corduneanu) 31 #6105

(with Albertoni, S.; Cellina, A.) Comportamento asintotico di una equazione integrale non lineare. *Ann. Mat. Pura Appl.* (4) 72 (1966), 133-140. (I. Fenyö) 34 #3248

(with Bhatia, Nam P.; Lazer, Anal C.) On global weak attractors in dynamical systems. *J. Math. Anal. Appl.* 16 (1966), 544-552. (J. D. Baum) 34 #5076

* (with Bhatia, N. P.) Dynamical systems: Stability theory and applications. Lecture Notes in Mathematics, No. 35. *Springer-Verlag, Berlin-New York,* 1967. vi + 416 *pp.* (T. Ura) 36 #2917

(with Bhatia, Nam P.) An extension theorem for asymptotic stability and its application to a control problem. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R.,* 1965*), pp.* 147-154. *Academic Press, New York,* 1967. (F. Brauer) 37 #6548

Nuovi risultati nella teoria dei sistemi dinamici. (English summary) *Studia Ghisleriana Ser. IV, Vol. IV: Studi Matematici, pp.* 32-42. *Collegio Ghislieri, Pavia,* 1967. (Author's summary) 38 #384

An application of the extension theorem to a control problem. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 766-770. (N. Kiiuchi) 37 #6556

(with Albertoni, S.; Cellina, A.) On the stability of homogeneous nuclear reactors. *J. Franklin Inst.* 284 (1967), 279-282. (Leonard Weiss) 36 #6215

(with Bhatia, Nam P.) Weak attractors in R^n. *Math. Systems Theory* 1 (1967), 129-133. (T. Ura) 35 #3647

Topological properties of weak attractors. *Topological Dynamics (Symposium, Colorado State Univ., Ft. Collins, Colo., 1967), pp.* 455-469. *Benjamin, New York,* 1968. (M. Eisenberg) 38 #5200

(with Olech, C.; Cellina, A.) On the stability properties of a third order system. *Ann. Mat. Pura Appl.* (4) 78 (1968), 91-103. (K. R. Meyer) 37 #3131

A theorem of Rolle's type in E^n for functions of the class C^l. *Pacific J. Math.* 27 (1968), 193-195. (M. R. Hestenes) 38 #2649

* (with Treccani, G.) Semigruppi di transformazioni multivoche. Lecture Notes in Mathematics, Vol. 101. *Springer-Verlag, Berlin-New York,* 1969. vi + 177 *pp.* (E. O. Roxin) 40 #6008

Sul comportamento asintotico di una equazione integrale non lineare. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 15 (1969), 387-394. (L. von Wolfersdorf) 41 #5915

(with Treccani, Giulio) Non continuous Liapunov functions. *Ann. Mat. Pura Appl.* (4) 82 (1969), 1-15. (T. Ura) 41 #2111

(with Treccani, G.) Flow without uniqueness near a compact strongly invariant set. *Boll. Un. Mat. Ital.* (4) 2 (1969), 113-124. (L. W. Green) 40 #3527

(with Bhatia, N. P.; Yorke, J. A.) A Liapunov characterization of attractors. *Boll. Un. Mat. Ital.* (4) 2 (1969), 222-228. (T. Ura) 40 #6003

* (with Bhatia, N. P.) Stability theory of dynamical systems. Die Grundlehren der mathematischen Wissenschaften, Band 161. *Springer-Verlag, New York-Berlin,* 1970. xi + 225 *pp.* (G. R. Sell) 44 #7077

(with Fagiuoli, E.) Qualitative analysis by modern methods of a stability problem in power-system analysis. *J. Franklin Inst.* 290 (1970), 103-111. (E. Ar) 42 #4234

(See also Differential games and related topics, 42 #8939)

(with Treccani, G.) Semigruppi di transformazioni multivoche in I^+. *Symposia Mathematica, Vol. VI (INDAM, Rome, 1970), pp.* 287-307. *Academic Press, London,* 1971. (G. Da Prato) 44 #4570

Szegö, K.

(with Tóth, K.) On the introduction of Lorentz poles into the unequal-mass scattering amplitude. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 371-400. (K. T. Mahanthappa) 41 #3020

(with Tóth, K.) SL(2,*C*) representations in explicitly "energy-dependent basis. I., II. *J. Mathematical Phys.* 12 (1971), 846-852; *ibid.* 12 (1971), 853-860. (N. Mukunda) 44 #1335

Szego, Peter

(with Lorch, Lee) A Bessel function inequality connected with stability of least square smoothing. *Proc. Amer. Math. Soc.* 17 (1966), 330-332. (H. S. Wilf) 32 #8017

(with Lorch, Lee) A Bessel function inequality connected with stability of least square smoothing. II. *Glasgow Math. J.* 9 (1968), 119-122. (W. Sibagaki) 39 #5840

(with Lorch, Lee; Muldoon, M. E.) Higher monotonicity properties of certain Sturm-Liouville functions. III. *Canad. J. Math.* 22 (1970), 1238-1265. (G. Sansone) 43 #603; erratum, 43, p. 1697

Székely, Béla

A special dyadic decomposition of matrices and some applications in comparative analysis. (Hungarian. English and Russian summaries) *Szigma--Mat.-Közgazdasági Folyóirat* 3 (1970), 241-253. (A. Lee) 44 #233

Székely, David L.

Die Theorie der Umgangssprache als interpretierter Kompositkalkül. *Notre Dame J. Formal Logic* 1 (1960), 150-170. (K. Ono) 31 #2128

Székely, I.

(with Mureşan, T.) Interpolation with respect to a prime modulus. (Romanian. Russian and French summaries) *Bul. Şti. Inst. Politehn. Cluj* 8 (1965), 105-109. (E. Grosswald) 34 #4194

Székely, Jenö

The orthogonal projections and homotheticity of convex bodies. (Hungarian. Russian and German summaries) *Mat. Lapok* 16 (1965), 52-56. (Author's summary) 33 #7938

Szekeres, E.

(with Szekeres, G.) On a problem of Schütte and Erdös. *Math. Gaz.* 49 (1965), 290-293. (J. W. Moon) 32 #4025

Szekeres, George

Fractional iteration of entire and rational functions. *J. Austral. Math. Soc.* 4 (1964), 129-142. (S. M. Shah) 29 #2368

(with Sag, T. W.) Numerical evaluation of high-dimensional integrals. *Math. Comp.* 18 (1964), 245-253. (P. C. Hammer) 29 #2969

(with Elliott, David) Some estimates of the coefficients in the Chebyshev series expansion of a function. *Math. Comp.* 19 (1965), 25-32. (C. W. Clenshaw) 30 #2666

(with Szekeres, E.) On a problem of Schütte and Erdös. *Math. Gaz.* 49 (1965), 290-293. (J. W. Moon) 32 #4025

(with Mahler, K.) On the approximation of real numbers by roots of integers. *Acta Arith.* 12 (1966/67), 315-320. (W. J. LeVeque) 35 #130

(with Mysak, Lawrence) Behavior of the Schwarzschild singularity in superimposed gravitational fields. *Canad. J. Phys.* 44 (1966), 617-627. (M. D. Kruskal) 32 #8986

Metabelian groups with two generators. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 323-346. *Gordon and Breach New York,* 1967. (G. Zappa) 36 #5226

(with Rényi, A.) On the height of trees. *J. Austral. Math. Soc.* 7 (1967), 497-507. (J. W. Moon) 36 #2522

(with Gibson, J. K.) Analytic matrix functions. *Nieuw Arch. Wisk.* (3) 15 (1967), 233-246. (J. A. Ward) 37 #1631

A combinatorial interpretation of Ramanujan's continued fraction. *Canad. Math. Bull.* 11 (1968), 405-408. (J. W. Moon) 38 #1012

Kinematic geometry: An axiomatic system for Minkowski space-time. *J. Austral. Math. Soc.* 8 (1968), 134-160. (P. C. Vaidya) 37 #6098

(with Wilf, Herbert S.) An inequality for the chromatic number of a graph. *J. Combinatorial Theory* 4 (1968), 1-3. (W. Imrich) 36 #1356

(with Blatt, D.) A skew Hadamard matrix of order 52. *Canad. J. Math.* 21 (1969), 1319-1322. (D. W. Walkup) 40 #4140

Tournaments and Hadamard matrices. *Enseignement Math.* (2) 15 (1969), 269-278. (J. J. Seidel) 40 #56

(with Ahrens, R. W.) On a combinatorial generalization of 27 lines associated with a cubic surface. *J. Austral. Math. Soc.* 10 (1969), 485-492. (Marshall Hall, Jr.) 42 #4419

A new class of symmetric block designs. *J. Combinatorial Theory* 6 (1969), 219-221. (P. Dembowski) 38 #4334

Skew configurations. (Hungarian) *Mat. Lapok* 20 (1969), 43-51. (L. Bukovský) 41 #3307

Infinite iteration of integral summation methods. *J. Analyse Math.* 24 (1971), 1-51. (D. Leviatan) 44 #681

Szekeres, P.

The gravitational compass. *J. Mathematical Phys.* 6 (1965), 1387-1391. (A. H. Klotz) 32 #7194

Embedding properties of general relativistic manifolds. (Italian summary) *Nuovo Cimento A* (10) 43 (1966), 1062-1076. (J. Rosen) 34 #5485

Szele, Tibor

Kombinatorische Untersuchengen über gerichtete vollständige Graphen. *Publ. Math. Debrecen* 13 (1966), 145-168. (O. Ore) 34 #7406

Szemerédi, Endre

(with Komlós, János; Sárközy, András) On sums of powers of complex numbers. (Hugarian. Russian and English summaries) *Mat. Lapok* 15 (1964), 337-347. (Authors' summary) 34 #2534

(with Sárközi, András) Über ein Problem von Erdős und Moser. *Acta Arith.* 11 (1965), 205-208. (P. Erdős) 32 #102

(with Sárközi, András) On the sequence of squares. (Hungarian) *Mat. Lapok* 16 (1965), 76-85. (P. Erdős) 34 #1294

(with Erdős, P.; Sárközi, A.) On the divisibility properties of sequences of integers. I. *Acta Arith.* 11 (1966), 411-418. (J. Kubilius) 34 #5791

(with Erdős, P.; Sárközi, András) On the solvability of the equations $[a_i, a_j] = a_r$ and $(a_i', a_j') = a_r'$ in sequences of positive density. *J. Math. Anal. Appl.* 15 (1966), 60-64. (T. M. Apostol) 33 #4035

(with Erdős, P.; Sárközi, András) On divisibility properties of sequences of integers. *Studia Sci. Math. Hungar.* 1 (1966), 431-435. (S. Knapowski) 34 #4233

(with Erdős, P.; Sárközi, A.) On the divisibility properties of sequences of integers. II. *Acta Arith.* 14 (1967/68), 1-12. (J. Kubilius) 37 #2717

(with Erdős, P.; Sárközi, András) The solvability of certain equations in dense sequences of integers. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 541-544. (B. Volkmann) 37 #2716

(with Erdős, P.; Sárközi, A.) On a theorem of Behrend. *J. Austral. Math. Soc.* 7 (1967), 9-16. (N. G. de Bruijn) 35 #148

(with Erdős, P.; Sárközi, A.) On an extremal problem concerning primitive sequences. *J. London Math. Soc.* 42 (1967), 484-488. (N. G. de Bruijn) 36 #1412

(with Katona, G.) On a problem of graph theory. *Studia Sci. Math. Hungar.* 2 (1967), 23-28. (F. Harary) 35 #1505

(with Erdős, P.) On a problem of P. Erdős and S. Stein. *Acta Arith.* 15 (1968), 85-90. (B. M. Stewart) 38 #3218

(with Erdős, P.; Sárközi, A.) On the solvability of certain equations in sequences of positive upper logarithmic density. *J. London Math. Soc.* 43 (1968), 71-78. (T. M. Apostol) 37 #183

(with Erdős, P.; Sárközi, A.) Über Folgen ganzer Zahlen. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 77-86. *Plenum, New York,* 1969. (B. Volkmann) 41 #8372

On sets of integers containing no four elements in arithmetic progression. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 89-104. (H. Halberstam) 39 #6861 (with Erdős, P.; Sárközi, A.) On some extremal properties of sequences of integers. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 131-135. (I. Niven) 41 #5326

On sets of integers containing no four elements in arithmetic progression. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen, 1968), pp.* 197-204. *North-Holland, Amsterdam,* 1970. (J. M. Gandhi) 42 #7622

(with Erdős, P.; Sárközi, A.) On divisibility properties of sequences of integers. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen, 1968), pp.* 35-49. *North-Holland, Amsterdam,* 1970. (J. Kubilius) 43 #4790

On a conjecture of Erdős and Heilbronn. *Acta Arith.* 17 (1970), 227-229. (J. Knopfmacher) 42 #3058

Szemplińska-Stupnicka, Wanda

Normal modes of a nonlinear two-degrees-of-freedom system and their properties. (Russian and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 193-206. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (R. M. Rosenberg) 33 #2017

Szénássy, Barna

A previously unknown mathematical paper of Ignác Martinovics. (Hungarian) *Mat. Lapok* 20 (1969), 57-62. (L. Gyarmathi) 41 #3222

Szender, Jerzy

New proofs of certain theorems concerning the characteristic roots of a matrix with non-negative elements. (Polish. English and Russian summaries) *Zeszyty Nauk Uniw. Jagiello. Prace Mat. No.* 6 (1961), 71-81. (R. F. Matlak) 34 #2588

Szendrei, János

Über die Szépschen Ringerweiterungen. *Acta Sci. Math. Szeged* 21 (1960), 166-172. (P. M. Cohn) 31 #2272

Szenthe, János

(with Scharnitzky, V.) Über Fluchtpunkte einer 2-Zelle. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 19-23. (R. W. Bagley) 30 #3455

On the total curvature of closed curves in Riemannian manifolds. *Publ. Math. Debrecen* 15 (1968), 99-105. *Publ. Math. Debrecen* 15 (1968), 99-105. (T. Suguri) 39 #902

A metric characterization of symmetric spaces. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 303-314. (T. Ohkubo) 40 #3486

On immersion of locally bounded curvature. *Acta Sci. Math. (Szeged)* 31 (1970), 141-156. (C.-C. Hsiung) 42 #3717

Szép, Jenő

(with Lajos, Sándor) Some characterisations of semi-groups with unit element. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 29-32. (Št. Schwarz) 32 #4203

(with Lajos, S.) A necessary and sufficient condition for a semigroup to have identity element. *Proc. Japan Acad.* 43 (1967), 456-457. (M. Yamada) 36 #5244

(with Zappa, Guido) Sui gruppi trifattorizzabili. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 113-116. (G. Pic) 40 #7345

(with Migliorini, Franco) Sulle Σ-partizioni di gruppi finiti. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 102 (1968), 401-409. (G. Zappa) 40 #219

Sulle algebre universali. I. (German summary) *Rend. Mat.* (6) 1 (1968), 363-370. (H. A. Thurston) 39 #4079

Sui gruppi fattorizzabili. (English summary) *Rend. Sem. Mat. Fis. Milano* 38 (1968), 228-230. (G. Zappa) 39 #1542

Sui semigruppi che contengono unità. *Symposia Mathematica (INDAM, Rome,* 1967/68), *Vol.* 1, *pp.* 99-108. *Academic Press, London,* 1969. (R. E. Peinado) 39 #5742

* (with Forgó, Ferenc) On approximative solution of large-scale linear programming problems. DM 69-2. *Department of Mathematics of the Karl Marx University of Economics, Budapest,* 1969. i + 26 *pp.* (W. F. Tyndall) 40 #1135

* On the structure of finite semigroups. DM 69-4. *Department of Mathematics, Karl Marx University of Economics, Budapest,* 1969. i + 9 *pp.* (D. B. McAlister) 43 #3367

(with Zappa, G.) Über dreifaktorisierbare Gruppen. I. *Acta Sci. Math. (Szeged)* 31 (1970), 173-178. (N. Ito) 41 #5483

Szépfalusy, P.

Pairing correlation in the nuclear surface layer. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 229-239. (Author's summary) 29 #3186

Szeptycki, P.

(with Aronszajn, N.; Mulla, F.) On spaces of potentials connected with L^p classes. *Ann. Inst. Fourier (Grenoble)* 13 (1963), 211-306. (E. M. Stein) 31 #5076

On restrictions of functions in the spaces $P^{\alpha,p}$ and $B^{\alpha,p}$. *Proc. Amer. Math. Soc.* 16 (1965), 341-347. (J. Deny) 32 #2609

(with Aronszajn, N.) On general integral transformations. *Math. Ann.* 163 (1966), 127-154. (W. A. J. Luxemburg) 32 #8209

Some remarks on the extended domain of Fourier transform. *Bull. Amer. Math. Soc.* 73 (1967), 398-402. (J. L. B. Cooper) 34 #8087

On functions and measures whose Fourier transforms are functions. *Math. Ann.* 179 (1968), 31-41. (G. I. Gaudry) 39 #710

Szestopał, G. A. See Šestopal, G. A.

Szeto, George

On the Brauer splitting theorem. *Pacific J. Math.* 31 (1969), 505-512. (F. DeMeyer) 40 #2713

The group character and split group algebras. *Pacific J. Math.* 34 (1970), 183-191. (D. B. Coleman) 43 #2124

Sze-tsen Hu. See Hu, Sze-tsen.

Szidarovszky, Ferenc

* On the oligopoly game. DM 70-1. *Department of Mathematics, Karl Marx University of Economics, Budapest,* 1970. i + 30 *pp.* (B. O. Shubert) 43 #8399

Szigeti, Ferenc

On a corollary of the Kondrašov theorem. (Hungarian) *Mat. Lapok* 19 (1968), 135-141. (L. Losonczi) 40 #722

On ordinary linear differential equations in Banach space. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 17-22. (J. Prouse) 42 #638

(with Gerencsér, László) Construction of tensor bundles by means of coordinate transformations. (Hungarian. English summary) *Mat. Lapok* 20 (1969), 375-380. (A. Rapcsák) 43 #1068

Szilágyi, Miklós

(with Maurer, I. Gy.) Über in Stellenringen definierte unendliche Produkte. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 67-74. (D. C. Murdoch) 34 #2616

(with Maurer, I. Gy.) On the convergence of infinite products defined in the rings of endomorphisms of an abelian group. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 2, 17-23. (E. Enochs) 37 #6362

(with Maurer, I. Gy.) Über einige metrische Eigenschaften der Stellenringe. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 2, 15-20. (D. C. Murdoch) 35 #2884

(with Maurer, I. Gy.) Über gewisse Topologien, die in der Menge der eindeutigen Abbildungen einer Menge in eine Operatorgruppe definiert sind. *Publ. Math. Debrecen* 14 (1967), 161-167. (H. de Vries) 37 #875

(with Weszely, T.) A differential geometric interpretation of integral curves of a system of differential equations of order two. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 273-280. (Authors' summary) 39 #1734

(with Maurer, Iulius Gy.) Étude de certaines équations définies dans des algèbres universelles. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 733-740. (M. Gould) 39 #5449

(with Maurer, I. Gy.) Über ein unendliches Produkt von geordneten Systemen beliebiger Mächtigkeit in Operatorgruppen mit Untergruppentopologie. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 13 (1968), *no.* 1, 3-6. (K. H. Hofmann) 37 #1513

(with Maurer, Iulius Gy.) L'étude de certains applications des groupes munis d'une topologie filtrante. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 515-522. (K. H. Hofmann) 40 #7381

(with Maurer, Iulius Gy.) Sur les produits filtrés de certains groupes topologiques. *Rend. Sem. Mat. Univ. Padova* 43 (1970), 247-259. (S. N. Hudson) 43 #2152

Szilágyi, Paul

On some inequalities connected with the solution of Dirichlet's problem. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* 14 (1963), 165-195. (M. Schechter) 32 #6034

(with Kalik, C.) Sur la solution du problème de Dirichlet pour une classe de systèmes elliptiques. *Mathematica (Cluj)* 5(28) (1963), 199-213. (M. Coroi-Nedelcu) 31 #2508

(with Kalik, C.) A class of problems of Dirichlet type. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 2, 59-63. (D. Pascali) 35 #6974

Sur les formes canoniques pour systèmes elliptiques de deuxième ordre à coefficients constants. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 13 (1968), *no.* 2, 35-44. (D. R. Smith) 41 #7278

Problèmes non-noethériens de Dirichlet. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 2, 25-30. (H. Beckert) 41 #5771

Szilárd, Karl

Über die topologische Natur einiger allgemeiner Sätze der Theorie der elliptischen Funktionen. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 417-423 (1964). (S. Hitotumatu) 29 #1344

On a known generalization of the concept of convexity for plane regions and its application to distortion theorems in the theory of conformal mappings. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 277-281. *Izdat. "Nauka", Moscow,* 1966. (R. J. Libera) 34 #6051

Über die Verzerrungseigenschaften der konformen Abbildung des Einheitskreises auf "ρ_0-konvexe" Gebiete. I. *Studia Sci. Math. Hungar.* 1 (1966), 133-136. (E. Netanyahu) 34 #6067

Über die Verzerrungseigenschaften der konformen Abbildung des Einheitskreises auf "ρ_0-donvexe" Gebiete. II. *Studia Sci. Math. Hungar.* 2 (1967), 49-51. (E. Netanyahu) 35 #4393

Über eine Mittelwertabschätzung von E. Landau und O. Toeplitz. *Studia Sci. Math. Hungar.* 3 (1968), 243-248. (A. Kobori) 39 #1635

Über die Koebesche Konstante 1/4. *Aequationes Math.* 2 (1969), 227-232. (D. K. Thomas) 39 #7077

Szimtenings, Dieter

Relativnullen in additiven abelschen Gruppen. *J. Reine Angew. Math.* 232 (1968), 17-34. (K. Honda) 38 #4560

Primitivmengen in additiven abelschen Gruppen. *J. Reine Angew. Math.* 243 (1970), 17-31. (H. B. Mann) 42 #398

Szlęk, Bronisław

A certain system of integro-differential equations. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Śląska Mat.-Fiz. Zeszyt* 15 (1970), 83-107. (A. Pelczar) 43 #3760

Szlenk, W.

(with Pełczyński, A.) Sur l'injection naturelle de l'espace (l) dans l'espace (l_p). *Colloq. Math.* 10 (1963), 313-323. (A. Dvoretzky) 29 #452

(with Pełczyński, A.) An example of a non-shrinking basis. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 961-966. (Ivan Singer) 34 #3284

Sur les suites faiblement convergentes dans l'espace *L*. *Studia Math.* 25 (1965), 337-341. (A. Alexiewicz) 34 #1833

Une remarque sur l'orthogonalisation des bases de Schauder dans l'espace *C*. *Colloq. Math.* 15 (1966), 297-301. (Á. Császár) 34 #3285

The non-existence of a separable reflexive Banach space universal for all separable reflexive Banach spaces. *Studia Math.* 30 (1968), 53-61. (J. P. Williams) 37 #3327

(with Krzyżewski, K.) On invariant measures for expanding differentiable mappings. *Studia Math.* 33 (1969), 83-92. (J. Bochnak) 39 #7067

Szmanda, Błażej

The distance between the zeros of certain solutions of an *n*th order linear differential equation. (Polish. English and Russian summaries) *Fasc. Math. No.* 4 (1969), 65-70 (1970). (M. Ráb) 41 #8762

Szmielew, Wanda

(with Szczerba, L.) On the Euclidean geometry without the Pasch axiom. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 659-666. (C. Ballester Pereyra) 43 #2596

The Pasch axiom as a consequence of the circle axiom. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 751-758. (S. R. Mandan) 44 #889

A statement on two circles as the geometric analog of Euclid's field property. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 759-764. (E. J. F. Primrose) 44 #2131

Szmodits, K.

Solution numérique simplifiée des problèmes de plaques. (English, German, and Russian summaries) *Acta Tech. Acad. Sci. Hungar.* 48 (1964), 231-239. (Author's summary) 29 #5449

Solution de l'équation potentielle pour surfaces rectangulaires en cas de valeurs au contour données. (English and Russian summaries) *Acta Tech. Acad. Sci. Hungar.* 55 (1966), 147-152. (W. G. Strang) 34 #7052

Numerical solution of mixed boundary value problems in disc analysis. (German, French and Russian summaries) *Acta Tech. Acad. Sci. Hungar.* 62 (1968), 25-30. (P. G. Ciarlet) 41 #6415

Szmydt, Zofia

Sui problemi di Dirichlet e di Neuman [Neumann] con dati al contorno generalizzati. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 32 (1962), 867-872. (C. B. Morrey) 31 #497

Sur un problème de Neumann généralisé. *Ann. Polon. Math.* 15 (1964), 309-325. (M. Coroi-Nedelcu) 30 #1304

L'étude de la dérivée normale du potentiel logarithmique de la double couche. *Ann. Polon. Math.* 18 (1966), 15-30. (T. G. Gegelia) 36 #4004

Le rapport mutuel des problèmes généralisés de Dirichlet et de Neumann. *Ann. Polon. Math.* 18 (1966), 31-42. (P. Meinhold (Zbl 135, 323)) 36 #4005

Sur la limite du potentiel logarithmique de couche double étendue sur une courbe variable. *Colloq. Math.* 16 (1967), 101-110. (M. M. Schiffer) 35 #5645

Remarque sur la méthode topologique de T. Ważewski. *Colloq. Math.* 18 (1967), 23-27. (Marko Švec) 36 #4069

Régularité des solutions tempérées d'une certaine classe d'équations différentielles linéaires. (Loose English and Russia summaries) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 21-25. (R. D. Moyer) 41 #5765

Sz.-Nagy, Béla

The "outer functions" and their role in functional calculus. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 421-425. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #592

(with Foiaş, Ciprian) Sur les contractions de l'espace de de Hilbert. VII. Triangulations canoniques. Fonction minimum. *Acta Sci. Math. (Szeged)* 25 (1964), 12-37. (F. J. Murray) 30 #455

(with Foiaş, Ciprian) Sur les contractions de l'espace de Hilbert. VIII. Fonctions caractéristiques. Modèles fonctionnels. *Acta Sci. Math. (Szeged)* 25 (1964), 38-71. (F. J. Murray) 30 #2348

(with Foiaş, Ciprian) Sur les contractions de l'espace de Hilbert. IX. Factorisations de la fonction caractéristique. Sous-espaces invariants. *Acta Sci. Math. (Szeged)* 25 (1964), 283-316. (Z. Takeda) 31 #5101

(with Foiaş, Ciprian) Une caractérisation des sous-espaces invariants pour une contraction de l'espace de Hilbert. *C. R. Acad. Sci. Paris* 258 (1964), 3426-3429. (M. Nakamura) 29 #1537

(See Császár, Ákos, 32 #1101)

* (with Riesz, Frédéric) Leçons d'analyse fonctionnelle. Quatrième édition. Académie des Sciences de Hongrie. *Gauthier-Villars, Editeur-Imprimeur-Libraire, Paris; Akadémiai Kiadó, Budapest,* 1965. viii + 490 *pp.* (Editors) 31 #3815

* Introduction to real functions and orthogonal expansions. *Oxford University Press, New York,* 1965. xi + 447 *pp.* (S. Marcus 31 #5938

Un calcul fonctionnel pour les contractions. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 525-528. *Ediz. Cremonese, Rome,* 1965. (Chandler Davis) 32 #8177

Sur la structure des dilatations unitaires des opérateurs de l'espace de Hilbert. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 529-534. *Ediz. Cremonese, Rome,* 1965. (Chandler Davis) 32 #8178

(with Foiaş, Ciprian) Sur les contractions de l'espace de Hilbert. X. Contractions similaires à des transformations unitaires. *Acta Sci. Math. (Szeged)* 26 (1965), 79-91. (R. G. Douglas) 34 #1856

Positive definite kernels generated by operator-valued analytic functions. *Acta Sci. Math. (Szeged)* 26 (1965), 191-192. (J. Rovnyak) 31 #2622

(with Foiaş, Ciprian) Corrections et compléments aux Contractions. IX. *Acta Sci. Math. (Szeged)* 26 (1965), 193-196. (M. Schreiber) 33 #4689

(with Foiaş, Ciprian) Sur les contractions de l'espace de Hilbert. XI. Transformations unicellulaires. *Acta Sci. Math. (Szeged)* 26 (1965), 301-324. (R. G. Douglas) 32 #8176 (E)

(with Foiaş, Ciprian) Quasi-similitude des opérateurs et sous-espaces invariants. *C. R. Acad. Sci. Paris* 261 (1965), 3938-3940. (F. J. Murray) 33 #3110

(with Foiaş, Ciprian) On certain classes of power-bounded operators in Hilbert space. *Acta Sci. Math. (Szeged)* 27 (1966), 17-25. (R. G. Douglas) 33 #6413

(with Foiaş, Ciprian) Sur les contractions de l'espace de Hilbert. XII. Fonctions intérieures admettant des facteurs extérieurs. *Acta Sci. Math. (Szeged)* 27 (1966), 27-33. (R. G. Douglas) 33 #6414

(with Foiaş, Ciprian) Correction: "Sur les contractions de l'espace de Hilbert. XI. Transformations unicellulaires". *Acta Sci. Math. (Szeged)* 27 (1966), 265. (Editors) 34 #1857

(with Foiaş, Ciprian) Décomposition spectrale des contractions presque unitaires. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A440-A442. (F. J. Murray) 33 #3111

Positiv-definite, durch Operatoren erzeugte Funktionen. *Wiss. Z. Techn. Univ. Dresden* 15 (1966), 219-222. (G. Maltese) 35 #5968

* Spektraldarstellung linearer Transformationen des Hilbertsche Raumes. Berichtigter Nachdruck. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 39. *Springer-Verlag, Berlin-New York,* 1967. vi + 81 *pp.* (Editors) 35 #4744

* (with Foiaş, Ciprian) Analyse harmonique des opérateurs de l'espace de Hilbert. *Masson et C^{ie}, Paris; Akadémiai Kiadó, Budapest,* 1967. xi + 373 *pp.* (R. G. Douglas) 37 #778

(with Foiaş, Ciprian) Forme triangulaire d'une contraction et factorisation de la fonction caractéristique. *Acta Sci. Math. (Szeged)* 28 (1967), 201-212. (R. G. Douglas) 36 #730

(with Foiaş, Ciprian) Echelles continues de sous-espaces invariants. *Acta Sci. Math. (Szeged)* 28 (1967), 213-220. (R. G. Douglas) 36 #731

(with Foiaş, Ciprian) Similitude des opérateurs de classe $\mathscr{C}_\rho$ à des contractions. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1063-A1065. (R. G. Douglas) 35 #3473

(See also Contests in higher mathematics (Hungary 1949-1961), 39 #1252)

(with Foiaş, Ciprian) Commutants de certains opérateurs. *Acta Sci. Math. (Szeged)* 29 (1968), 1-17. (R. G. Douglas) 39 #3346 (with Foiaş, Ciprian) Dilatation des commutants d'opérateurs. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A493-A495. (F. J. Murray) 38 #5049

Products of operators of classes C_ρ. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 897-899. (J. B. Deeds) 39 #812

(with Foiaş, C.) Vecteurs cycliques et quasi-affinités. *Studia Math.* 31 (1968), 35-42. (R. G. Douglas) 38 #5050

(See also Abstract spaces and approximation, 41 #4102)

Hilbertraum-Operatoren der Klasse C_0. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach,* 1968*), pp.* 72-81. *Birkhäuser, Basel,* 1969. (R. G. Douglas) 41 #4287

Sur la norme des fonctions de certains opérateurs. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 331-334. (V. Pták) 41 #857

* (with Foiaş, Ciprian) Harmonic analysis of operators on Hilbert space. Translated from the French and revised. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Ind., New York; Akadémiai Kiadó, Budapest,* 1970. xiii + 389 *pp.* (From the foreword) 43 #947

* (with Foiaş, Ciprian) Гармонический анализ операторов в гильбертовом пространстве. (Russian) [Harmonic analysis of operators in Hilbert space] Translated from the French by Ju. L. Šmul'jan. Edited by Ju. P. Ginzburg. With a foreword by M. G. Kreĭn. *Izdat. "Mir", Moscow,* 1970. 431 *pp.* (Editors) 43 #948

(with Foiaş, Ciprian) Modèle de Jordan pour une classe d'opérateurs de l'espace de Hilbert. *Acta Sci. Math. (Szeged)* 31 (1970), 91-115. (S. R. Caradus) 41 #9038

(with Foiaş, Ciprian) Compléments à l'étude des opérateurs de classe C_0. *Acta Sci. Math. (Szeged)* 31 (1970), 287-296. (R. G. Douglas) 44 #845

Sznajder, N.

(with Karwowski, W.) Asymptotic condition in quantum theory of a field with a parameter. *Acta Phys. Polon.* 35 (1969), 813-828. (H. Araki) 40 #5221

(with Karwowski, W.) Some remarks on the theory of several scalar fields in algebraic approach. *Rep. Mathematical Phys.* 1 (1970/71), *no.* 4, 259-264. (Editors) 44 #7883

Szöcs, Huba

A method of transforming structural homogeneous processes in statistical ensembles. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 259-265. 41 #5130

Szoda, Zenon

Boundary value problems for systems of higher-dimensional linear difference equations. (Russian) *Ann. Polon. Math.* 22 (1969/70), 359-369. (A. Smajdor) 42 #2199

Szökefalvi Nagy, B. See Sz.-Nagy, Bela.

Szpikowski, S.

(with Flowers, B. H.) A generalized quasi-spin formalism. *Proc. Phys. Soc.* 84 (1964), 193-199. (K. T. Hecht) 32 #2111

(with Flowers, B. H.) Quasi-spin in *LS* coupling. *Proc. Phys. Soc.* 84 (1964), 673-679. (K. T. Hecht) 32 #2112

(with Hecht, K. T.) On the new quasiparticle factorization of the j-shell. *Nuclear Phys.* A158 (1970), 449-475. (K. J. Le Couteur) 42 #7162

Szpilecki, Jozef

Certain properties of the matrix exponential function. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Śląsk. Mat.-Fiz. Zeszyt* 15 (1970), 409-427. (O. Borůvka) 44 #514

Szpilrajn, Edward. See Marczewski, E.

Szpilrajn-Marczewski, Edward. See Marczewski, E.

Szpiro, Lucien

Fonctions d'ordre et valuations. *Bull. Soc. Math. France* 94 (1966), 301-311. (W. V. Vasconcelos) 36 #2613

(See also Anneaux de Gorenstein, et torsion en algèbre commutative, 37 #1435)

(with Peskine, Christian) Modules de type fini et de dimension injective finie sur un anneau local noethérien. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1117-A1120. (H. Bass) 38 #3266

(with Peskine, Christian) Sur la topologie des sous-schémas fermés d'un schéma localement noethérien, définis comme support d'un faisceau cohérent localement de dimension projective finie. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A49-A51. (J. P. May) 40 #1385

(with Peskine, Christian) Théorèmes de finitude et de nullité en cohomologie des schémas. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1000-A1002. (J.-E. Bertin) 42 #7672

(with Peskine, Christian) Sur le relèvement des modules de dimension projective finie. *C. R. Acad. Sci. Paris Ser. A - B* 271 (1970), A1102-A1104. (E. F. Assmus, Jr.) 42 #7657

Szpunar, Kazimierz

Die Bewegung eines mechanischen Systems von einem Freiheitsgrad mit trockener Reigung und asymmetrischer elastischer Kraft. (English and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 358-364. (T. R. Kane) 33 #2018

A survey of the scientific work on the theory of nonlinear oscillations by the Mathematics Department I of the Academy of Mining and Metallurgy. (Polish. English summary) *Zeszyty Nauk. Akad. Górn.-Hutniczej No.* 207 (1969), 9-14. 40 #7550

Szűcs, József

(with Kovács, I.) Ergodic type theorems in von Neumann algebras. *Acta Sci. Math. (Szeged)* 27 (1966), 233-246. (R. A. Hirschfeld) 35 #753

(with Kovács, István) Théorèmes de type ergodique dans les algèbres de von Neumann. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A341-A344. (M. Nakamura) 34 #3355

On the individual ergodic theorem. (Hungarian. French summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 365-368. (Author's summary) 38 #6030

(with Kovács, I.) A note on invariant linear forms on von Neumann algebras. *Acta Sci. Math. (Szeged)* 30 (1969), 35-37. (Z. Takeda) 39 #3323

(with Máté, E.; Foiaş, C.) Non-existence of unicellular operators on certain non-separable Banach spaces. *Acta Sci. Math. (Szeged)* 31 (1970), 297-300. (L. J. Wallen) 43 #967

Szufla, S.

On the existence of solutions of an ordinary differential equation in the case of Banach space. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 311-315. (J. Prouse) 39 #1781

Some remarks on ordinary differential equations in Banach spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 795-800. (J. E. Lagnese) 39 #595

On the boundedness of solutions of ordinary differential equations in Banach spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 745-750. (A. G. Kartsatos) 43 #2332

Szu-hoa Min. See Min Szu-he.

Szulkin, P.

Optimisation des systèmes linéaires variables. *Rev. CETHEDEC No.* 16 (1968), 85-103. (Author's summary) 39 #2500

Szüsz, Péter

Über die absolute Konvergenz lakunaerer trigonometrischer Reihen. (Russian summary) *Acta Math. Acad. Sci. Hungar.* 12 (1961), 215-220. (E. M. Stein) 29 #412

Über einen Satz der Kettenbruchlehre. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 341-346 (1964). (E. P. Merkes) 29 #2221

On the metric theory of continued fractions. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 361-400. (A. Meir) 37 #6248

(with Turán) On the constructive theory of functions. I. (Russian) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 495-502 (1965). (G. Sunouchi) 32 #4439

(with Turán, Pál) A new direction in the constructive theory of functions. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 33-45. (P. Erdős) 34 #6409

(with Kennedy, P. B.) On a bounded increasing power series. *Proc. Amer. Math. Soc.* 17 (1966), 580-581. (Hari Shankar) 34 #1498

(with Turán, P.) On the constructive theory of functions. II. *Studia Sci. Math. Hungar.* 1 (1966), 65-69. (G. Sunouchi) 34 #6410

(with Turán, P.) On the constructive theory of functions. III. *Studia Sci. Math. Hungar.* 1 (1966), 315-322. (G. Sunouchi) 34 #6411

Once more the Brauer-Rademacher identity. *Amer. Math. Monthly* 74 (1967), 570-571. (M. V. Subbarao) 37 #144

On Kuzmin's theorem. II. *Duke Math. J.* 35 (1968), 535-540. (W. W. Adams) 37 #1336

On a theorem of Buck and Pollard. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1968), 39-40. (W. Hoeffding) 39 #3565

(with Monteferrante, Sandra) On a generalization of a theorem of Borel. *Acta Arith.* 16 (1969/70), 393-397. (W. W. Adams) 41 #6784

(with Klee, Karl) On summability of subsequences. *Math. Z.* 111 (1969), 205-213. (G. M. Peterson) 40 #3113

Szuwałowa, E. Z. See Šuvalova, È. Z.

Szwarc, Włodzimierz

The stability of the transportation problem. *Mathematica (Cluj)* 4(27) (1962), 397-400. (P. L. Ivănescu) 29 #2095

The transportation problem. (Polish. Russian and English summaries) *Zastos. Mat.* 6 (1962), 149-187. (M. Mişicu) 33 #2414

Division of a symmetric matrix into the least number of main minors with non-negative elements. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1963), 105-117. (H. Hanani) 32 #4029

The transportation problem with stochastic demand. *Management Sci.* 11 (1964/65), 33-50. (E. L. Johnson) 30 #2926

The transportation scheme and its applications. (Polish. Russian and English summaries) *Przegląd Statyst.* 11 (1964), 119-167. 32 #9051 (with Wintgen, Georg) The number of transportation bases. *Mathematica (Cluj)* 7(30) (1965), 155-161. (E. L. Johnson) 33 #5367

Szybiak, Andrzej

Investigation of some measures and sequences related to the extreme points. *Ann. Polon. Math.* 10 (1961), 279-291. (A. Appert) 30 #3953

} On the behaviour of the curvature lines in the neighbourhood of an isolated ombilic point. *Ann. Polon. Math.* 15 (1964), 43-55. (P. Hartman) 30 #1281

On prolongation of fibre structures and connections of higher order. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 661-664. (S. Kobayashi) 33 #1810

On the general connections and continuity of the operator ∇. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 665-667. (S. Kobayashi) 33 #4845

Algebras of Penzov's objects on two-dimensional manifold. (Russian) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 10 (1965), 93-96. (M. Kuczma) 33 #7956

On the Lie derivative of geometric objects from the point of view of functional equations. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 85-88. (V. Bliznikas (RŽMat 1968 #8 A470)) 43 #8021

Covariant differentiation of geometric objects. *Zeszyty Nauk Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 89-100. (Ju. Lumiste (RŽMat 1968 #6 A620)) 44 #944

The reduction of exterior forms. (Russian) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 101-104. (From the author's introduction) 44 #2778

Covariant differentiation of geometric objects. *Dissertationes Math. Rozprawy Mat.* 56 (1967), 41 pp. (W. B. Houston, Jr.) 38 #6484

Lowering the class of a geometric object. (Russian) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 12 (1968), 61-65. (A. Urban) 37 #2114

Generalized tangent bundles. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 289-297. (H. Osborn) 40 #1917

Szybicki, Edmund

Some numerical methods used for telephone traffic theory applications. (French, Spanish and German summaries) *Ericsson Technics* 20 (1964), 203-229. (L. Takács) 30 #2578

Szygenda, Stephen A.

(with Spitznagel, Edward L., Jr.) A computer study of the orders of finite simple groups. *Math. Comp.* 22 (1968), 669-671. (D. Gorenstein) 37 #2851

Szymacha, A.

(with Werle, J.) The problem of dynamical groups in quantum mechanics. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 325-330. (N. Mukunda) 34 #2269

SU_3 as a dynamical group of the Hamiltonian $H = 1/2p^2 + V(r)$. (Russian summary) *Bull. Acad. Polon. Sci. Sér.. Sci. Math. Astronom. Phys.* 14 (1966), 331-335. (N. Mukunda) 34 #2268

Szymanowski, Jacek

(with Jastrzębski, Stanisław) A comparison of gradient methods of static optimization. (Polish. Russian and English summaries) *Arch. Atuomat. i Telemech.* 16 (1971), 171-183. (J. Warga) 44 #4879

A survey of the methods for seeking the extremum with constraints. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 16 (1971), 205-221. (J. Warga) 44 #4880

Szymiczek, Kazimierz

L'équation $uv = w^2$ en nombres triangulaires. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 139-141. (A. Schinzel) 30 #3864

On products of sines and cosines. (Polish) *Wiadom. Mat.* (2) 7 57-62 (1963). (J. Mařík) 32 #1301

On prime numbers p, q, and r such that pq, pr, and qr are pseudoprimes. *Colloq. Math.* 13 (1964/65), 259-263. (A. Schinzel) 31 #4757

On the equation $a^x - b^x = (a - b)c^y$. (Polish) *Wiadom. Mat.* (2) 7 233-236 (1964). (S. Knapowski) 32 #1166

On the equations $a^x + b^x = c^y$. *Amer. J. Math.* 87 (1965), 262-266. (W. J. LeVeque) 33 #2600

Note on Fermat numbers. *Elem. Math.* 21 (1966), 59. (R. P. Bambah) 33 #1278

On pseudoprimes which are products of distinct primes. *Amer. Math. Monthly* 74 (1967), *no.* 1, *part I*, 35-37. (H. J. Godwin) 34 #5746

On a Diophantine equation. *Elem. Math.* 22 (1967), 37-38. (A. Schinzel) 35 #128

Sums of powers of generators of a finite field. *Colloq. Math.* 20 (1969), 59-63. (R. J. McEliece) 39 #174

On the distribution of prime factors of Mersenne numbers. *Prace Mat.* 13 (1969), 33-49. (S. L. Segal) 40 #5537

Szynal, Dominik

On the strong law of large numbers for random variables bounded by sequences of numbers. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 16 (1962), 123-127 (1964). (M. Loève) 29 #5272

A note on qualitative conditions for the strong law of large numbers. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 18 (1964), 5-7 (1967). (L. A. Shepp) 38 #75

Certaines inégalités pour les sommes de variables algéatoire et leur application dans l'étude de la convergence de séries et de suites aléatoires. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 19 (1965), 87-125 (1970). (J. E. A. Dunnage) 41 #6283

Sur la loi forte des grands nombres pour les variables aléatoires indépendantes à espérances mathématiques finies. *C. R. Acad. Sci. Paris* 260 (1965), 6275-6276. (C. G. Esseen) 31 #5235

Extension des théorèmes de A. Kolmogoroff et H. Brunk concernant la loi forte des grands nombres. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A505-A507. (M. Iosifescu) 37 #957(

Erratum: "Extension des théorèmes de A. Kolmogoroff et H. Brunk concernant la loi forte des grands nombres". *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A41. (M. Iosifescu) 37 #959

Certaines inégalités utiles dans l'étude de la convergence essentielle des séries aléatoires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A734-A737. (C. V. Stanojevic) 34 #6846

Certaines inégalités concernant les sommes et la convergence presque sûre des séries aléatoires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A923-A926. (C. V. Stanojevic) 34 #6847

Inégalités et conditions suffisantes de la convergence presqu sûre de certaines séries aléatoires. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A636-A638. (Simeon M. Berman) 35 #4970

Certaines inégalités du type de P. Lévy et leurs applications *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A955-A958. (M. Loève) 37 #6982

La convergence en probabilité et la convergence presque sûre de certaines suites de variables aléatoires dépendantes. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 889-894. (W. L. Steiger) 39 #1003

Sur une extension du théorème de Marcinkiewicz-Zygmund. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 895-898. (W. L. Steiger) 39 #1004

La convergence en probabilité et la convergence presque sûre de certaines suites de variables aléatoires dépendantes. *Colloq. Math.* 21 (1970), 321-338. (J. E. A. Dunnage) 42 #1181

(with Szynal, Jan) A propos de l'inversion des matrices généralisées de Jacobi. (Czech summary) *Apl. Mat.* 17 (1972), 28-32. (A. R. Amir-Moéz) 44 #6715

(with Szynal, Jan) Note sur le rang d'une matrice. (Czech summary) *Apl. Mat.* 17 (1972), 33-38. (A. R. Amir-Moéz) 44 #6720

Szynal, Jan

(with Szynal, Dominik) A propos de l'inversion des matrices généralisées de Jacobi. (Czech summary) *Apl. Mat.* 17 (1972), 28-32. (A. R. Amir-Moéz) 44 #6715

(with Szynal. Dominik) Note sur le rang d'une matrice. (Czech summary) *Apl. Mat.* 17 (1972), 33-38. (A. R. Amir-Moéz) 44 #6720

(The sign } indicates an entry in the supplement.)

Ta, You Wu. See Wu, Ta-You.

Taam, Choy-Tak

Stability, periodicity, and almost periodicity of solutions of nonlinear differential equations in Banach spaces. *J. Math. Mech.* 15 (1966), 849-876. (C. E. Langenhop) 33 #4433

(with Welch, J. N.) Compact solutions of nonlinear differential equations in Banach spaces. *Michigan Math. J.* 13 (1966), 271-284. (Slavomír Burýšek) 33 #7665

On nonlinear diffusion equations. *J. Differential Equations* 3 (1967), 482-499. (J. J. Schäffer) 36 #501

Nonlinear differential equations in Banach spaces, and applications. *Michigan Math. J.* 15 (1968), 177-186. (C. E. Langenhop) 37 #3224

(See also Lectures in modern analysis and applications, 39 #5278; 41 #8183; and 42 #4349)

Taari, Ossi

Charakterisierung der Quasikonformität mit Hilfe der Winkelverzerrung. *Ann. Acad. Sci. Fenn. Ser. A I No.* 390 (1966), 43 *pp.* (G. D. Anderson) 33 #4267

Raumwinkel und Quasikonformität. *Ann. Acad. Sci. Fenn. Ser. A I No.* 426 (1968), 16 *pp.* (J. A. Kelingos) 38 #6058

Tabačnikov, M. I.

(with Ljubič, Ju. I.) A theorem of Mařik and Pták. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 470-473. (Ky Fan) 39 #2782

(with Ljubič, Ju. I.) Subharmonic functions on a directed graph. *Sibirsk. Mat. Ž.* 10 (1969), 600-613 *(Russian); translated as Siberian Math. J.* 10 (1969), 432-442. (Ky Fan) 43 #7359

(with Kiržner, V. M.) The critical exponents of norms in *n*-dimensional space. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 672-675. (J. Mařík) 44 #2771

Tabak, Daniel

(with Kuo, B. C.) A nonlinear programming approach to optimal control of discrete systems with constrained sampling times. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 918-922. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #2394

Comparative study of various minimization techniques used in mathematical programming. *IEEE Trans. Automatic Control* AC-14 (1969), 572. (Author's summary) 42 #8669

(with Kuo, Benjamin C.) Application of mathematical programming in the design of optimal control systems. *Internat. J. Control* (1) 10 (1969), 545-552. 40 #3968

Tabaks, K. K.

Conformal mapping of certain potential fields with distributed sources. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1964, *no.* 6, 31-36. (Author's summary) 30 #272

Transformation of differential equations by the similarity method. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Ser.* 1965, *no.* 1, 65-74. (Author's summary) 30 #2176

Tabarrok, B.

(with Simpson, A.) On Kron's eigenvalue procedure and related methods of frequency analysis. *Quart. J. Mech. Appl. Math.* 21 (1968), 1-39. (S. Drobot) 37 #1118

Tabata, Hiroyoshi

Free structures and universal Horn sentences. *Math. Japon.* 14 (1969), 101-104. (E. W. Chapin, Jr.) 44 #2596

Tabata, Morio. See Obata, Morio.

Tabata, Yoshio

(with Mine, Hisashi) On direct sums of Markovian decision process. *J. Math. Anal. Appl.* 28 (1969), 284-293. (J. Kiefer) 39 #6444

(with Mine, Hisashi) Some remarks on optimality conditions for Markovian decision process. *Mem. Fac. Engrg. Kyoto Univ.* 31 (1969), 425-440. 41 #3107

(with Mine, Hisashi) Linear programming and continuous Markovian decision problems. *J. Appl. Probability* 7 (1970), 657-666. (H. Taylor) 43 #7203

(with Mine, Hisashi) On a set of optimal policies in continuous time Markovian decision problem. *J. Math. Anal. Appl.* 34 (1971), 53-66. (J. Kiefer) 43 #1615

(with Mine, Hisashi) A new optimality criterion for discrete dynamic programming. *J. Math. Anal. Appl.* 37 (1972), 118-129. (H. Taylor) 44 #3690

Taberski, Roman

Singular integrals depending on two parameters. *Prace Mat.* 7 (1962), 173-179. (H. Fast) 32 #2840

On double integrals and Fourier series. *Ann. Polon. Math.* 15 (1964), 97-115. (B. N. Prasad) 29 #5059

Some properties of Fourier-Bessel series. I. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 151-156. (A. Peyerimhoff) 29 #416

Some properties of Fourier-Bessel series. II. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 377-383. (A. Peyerimhoff) 30 #2287

Theorems of Hardy and Littlewood type. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 697-702. (R. P. Boas, Jr.) 30 #2153

Some properties of Fourier-Bessel series. III. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 787-791. (A. Peyerimhoff) 36 #3051

Some properties of Fourier-Bessel series. IV. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 673-680. (A. Peyerimhoff) 36 #3052

On Fourier series with respect to the Bessel polynomial-system. *Colloq. Math.* 15 (1966), 105-110. (L. Leindler) 33 #3047

On Dini series. I. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 95-102. (M. Nassif) 39 #1891

Some properties of Fourier-Bessel series. V. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 253-259. (A. Peyerimhoff) 36 #3053

On Dini series. II. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 703-710. (M. Nassif) 40 #1736

On double Bessel series. I. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 37-45. (A. Peyerimhoff) 38 #484

Convergence criteria for Hankel's repeated integrals. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 1-10. (M. Nassif) 40 #3208

Strong summability of double Fourier series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 719-726. (G. Sunouchi) 41 #733

Trigonometric interpolation. I. *Colloq. Math.* 20 (1969), 287-294. (A. K. Varma) 39 #7341

Extension of Juneja's results. *Prace Mat.* 13 (1969), 125-128. (R. S. L. Srivastava) 40 #4455

Abel summability of double Fourier series. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 307-314. (Yung-ming Chen) 41 #8927

Trigonometric interpolation. II. *Colloq. Math.* 21 (1970), 111-126. (A. K. Varma) 41 #5861

Summability of differentiated interpolating polynomials. *Comment. Math. Prace Mat.* 13 (1970), 197-213. (B. N. Sahney) 42 #3491

Tabet, E.

(with de Pasquale, F.; Jona-Lasinio, G.) Gauge invariance and structure of the correlation functions of a Bose liquid. *Ann. Physics* 33 (1965), 381-399. (M. D. Girardeau) 32 #8938

Tabidze, G.

On the problem of detection in a text of titles of objects. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 37 (1965), 25-30. 30 #5842

Tabor, Józef

(with Moszner, Z.) Sur la notion du biscalaire. *Ann. Polon. Math.* 19 (1967), 323-330. (M. Kuczma) 36 #4461

Taborda, Josá Francisco da Rosa

On a new integral in the problem of three bodies and its application to a problem of astrodynamics. (Portuguese) *Univ. Lisboa Revista Fac. Ci. A* (2) 12, 55-136 (1967/68). (G. E. O. Giacaglia) 41 #1264; erratum, 41, p. 1965

Tabov, Ǐ. B.

On the theory of categories of Hilbert spaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 1, 65-68. (J. R. Isbell) 43 #5320

Tabueva, V. A.

Existence conditions for circular motions of the Froude pendulum. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1961, *no.* 5 (24), 61-68. (M. Kiveliovitch) 29 #1781

(with Barbašin, E. A.) Theorems on the asymptotic stability of solutions of certain third order differential equations with discontinuous characteristics. *Prikl. Mat. Meh.* 28 (1964), 523-528 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 643-649. (T. F. Bridgland, Jr.) 32 #2687

A qualitative investigation of a certain differential equation of the second order in control theory. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1557-1567. (C. E. Langenhop) 32 #7274

(with Barbašin, E. A.) On a class of motions of a pendulum in a medium with large resistance. (Russian) *Differencial'nye Uravnenija* 3 (1967), 371-379. (J. M. Skowroński) 35 #3150

A qualitative investigation of a certain differential equation of the second order in control theory. II. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1415-1426. (O. Hajek) 36 #4093

Oscillations of a pendulum with relay control. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2030-2036. (K. Magnus) 36 #7369

Tachibana, Sadao

(with Watanabe, Kei-ichi; Ishikawa, Takeshi; Otsuka, Kayo) On tensor products of Gorenstein rings. *J. Math. Kyoto Univ.* 9 (1969), 413-423. (D. S. Rim) 41 #1716

Tachibana, Shun-ichi

Infinitesimal transformations of almost Hermitian spaces. (Japanese) *Sûgaku* 16 (1964), 18-27. (Y. Tashiro) 29 #6455

On harmonic tensors in compact Sasakian spaces. *Tôhoku Math. J.* (2) 17 (1965), 271-284. (A. G. Walker) 32 #8288

(with Ogawa, Yôsuke) On the second Betti number of a compact Sasakian space. *Natur. Sci. Rep. Ochanomizu Univ.* 17 (1966), 27-32. (R. L. Bishop) 35 #4947

On the Bochner curvature tensor. *Natur. Sci. Rep. Ochanomizu Univ.* 18 (1967), 15-19. (K. Yano) 36 #7089

On a decomposition of *C*-harmonic forms in a compact Sasakian space. *Tôhoku Math. J.* (2) 19 (1967), 198-212. (Y. Tashiro) 36 #3379

On Killing tensors in a Riemannian space. *Tôhoku Math. J.* (2) 20 (1968), 257-264. (H. D. Pande) 38 #1630

(with Kashiwada, Toyoko) On the integrability of Killing-Yano's equation. *J. Math. Soc. Japan* 21 (1969), 259-265. (J. W. Smith) 39 #894

On conformal Killing tensor in a Riemannian space. *Tôhoku Math. J.* (2) 21 (1969), 56-64. (H. D. Pande) 39 #3413

(with Ogawa, Yôsuke) On η-cohomology of $\eta\#$-invariant forms in a compact Sasakian space. *Tôhoku Math. J.* (2) 21 (1969), 632-643. (C. B. Allendoerfer) 41 #4440

(with Liu, Richard Chieng) Notes on Kählerian metrics with vanishing Bochner curvature tensor. *Kōdai Math. Sem. Rep.* 22 (1970), 313-321. (R. Behari) 42 #1030

(with Yu, Wen Neng) On a Riemannian space admitting more than one Sasakian structures. *Tôhoku Math. J.* (2) 22 (1970), 536-540. (C. B. Allendoerfer) 43 #1086

Tachikawa, Hiroyuki

On splitting of module categories. *Math. Z.* 111 (1969), 145-150. (H. H. Storrer) 40 #192

A generalization of quasi-Frobenius rings. *Proc. Amer. Math. Soc.* 20 (1969), 471-476. (M. Djabali) 38 #5849

Double centralizers and dominant dimensions. *Math. Z.* 116 (1970), 79-88. (E. J. Taft) 42 #317

On left QF-3 rings. *Pacific J. Math.* 32 (1970), 255-268. (K. R. Fuller) 41 #1802

Tacon, D. G.

The conjugate of a smooth Banach space. *Bull. Austral. Math. Soc.* 2 (1970), 415-425. (H. Nakano) 41 #5942

Tacunjak, P. I.

Two-dimensional theory of fields on an axiomatic basis. (Russian) *Problems Math. Phys. and Theory of Functions (Russian), pp.* 168-179. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. (A. H. Klotz) 33 #2216

A certain model of the quantum theory of fields that has an exact solution. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1970, 133-137, 189. (Z. Derzko) 44 #6259

Tadić, D.

(with Tuan, T. F.) On the partial-wave amplitudes for three-body scattering. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 463-482. (J. T. Cushing) 34 #1037

(with Miketinac, M.) Peratization of some higher-order diagrams. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 490-495. (From the authors' summary) 32 #8769

Tadjbakhsh, Iradj

(with Odeh, F.) Uniqueness in the linear theory of visco-elasticity. *Arch. Rational Mech. Anal.* 18 (1965), 244-250. (P. P. Teodorescu) 30 #2771

(with Odeh, F.) A nonlinear eigenvalue problem for rotating rods. *Arch. Rational Mech. Anal.* 20 (1965), 81-94. (W. D. Kroll) 32 #3358

(with Odeh, F.) Equilibrium states of elastic rings. *J. Math. Anal. Appl.* 18 (1967), 59-74. (S. Drobot) 34 #5355

Tadokoro, Machio

Sur les ensembles pseudoconcaves généraux. *J. Math. Soc. Japan* 17 (1965), 281-290. (A. Martineau) 32 #1377

Tae, Ho Choe. See Choe, Tae Ho.

Tae, Il Suh. See Suh, Tae-Il.

Taft, Earl Jay

Orthogonal conjugacies in associative and Lie algebras. *Trans. Amer. Math. Soc.* 113 (1964), 18-29. (G. B. Seligman) 29 #1229; errata, 29, p. 1437

Some remarks on invariant substructures of associative algebras. *Math. Ann.* 157 (1965), 363-368. (H. Kupisch (Zbl 134, 37)) 37 #5257

Invariant splitting in Jordan and alternative algebras. *Pacific J. Math.* 15 (1965), 1421-1427. (G. B. Seligman) 32 #7616

On certain *d*-groups of algebra automorphisms and antiautomorphisms. *J. Algebra* 3 (1966), 115-121. (G. B. Seligman) 32 #7594 (E)

Cohomology of algebraic groups and invariant splitting of algebras. *Bull. Amer. Math. Soc.* 73 (1967), 106-108. (L. Evens) 35 #223

Orthogonal conjugacies in finite groups. *Math. Ann.* 170 (1967), 37-40. (E. E. Shult) 35 #246

Cohomology of groups of algebra automorphisms. *J. Algebra* 10 (1968), 400-410. (L. Evens) 38 #218

On the Whitehead first lemma for Jordan algebras. *Math. Z.* 107 (1968), 83-86. (A. A. Sagle) 38 #2181

A counter-example to a fixed point conjecture. *Pacific J. Math.* 27 (1968), 405-409. (G. B. Seligman) 38 #4532

Ideals in admissible algebras. *Pacific J. Math.* 30 (1969), 259-261. (K. Meyberg) 40 #1443

Quelques relations entre les algèbres de Jordan et les algèbres de Lie. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot:* 1968/69, *Algèbre et Théorie des Nombres, Fasc.* 1, *Exp.* 5, 13 *pp. Secrétariat mathématique, Paris,* 1970. (J. Paige) 43 #6278

(with Hallahan, Charles B.) On primary automorphism groups of finite groups. *Arch. Math. (Basel)* 21 (1970), 136-138. (Fletcher Gross) 42 #354

Correction and further remarks: "On certain *d* groups of algebra automorphisms and antiautomorphisms". *J. Algebra* 14 (1970), 417-421. (J. E. Humphreys) 41 #271

On the splitting of Hopf algebra modules. *J. Algebra* 18 (1971), 461-467. (R. G. Larson) 43 #3306

The order of the antipode of finite-dimensional Hopf algebra.. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 2631-2633. (K.-T. Chen) 44 #4075

Taga, Yasushi

On the limiting distributions in Markov renewal processes with finitely many states. *Ann. Inst. Statist. Math.* 15 (1963), 1-10. (R. Pyke) 31 #1726

On high order moments of the number of renewals. *Ann. Inst. Statist. Math.* 15 (1963), 187-196. (R. Pyke) 31 #819

On unbiased ratio and regression estimators. (Japanese. English summary) *Proc. Inst. Statist. Math.* 11 (1963/64), 1-6. (Author's summary) 29 #2899

A note on the degree of normal approximation to the distribution function of the mean of samples from finite populations. *Ann. Inst. Statist. Math.* 16 (1964), 427-430. (J. Gani) 30 #2544

The optimal sampling procedure for estimating the mean of stationary Markov processes. *Ann. Inst. Statist. Math.* 17 (1965), 105-112. (D. V. Lindley) 30 #5414

Optimal point sampling in stochastic processes. (Japanese) *Bull. Japan Statist. Soc.* 1966, 81-83 (1967). (C. Hayashi) 41 #7812

On optimum stratification for the objective variable based on concomitant variables using prior information. *Ann. Inst. Statist. Math.* 19 (1967), 101-129; *correction, ibid.* 19 (1967), 372. (W. A. Ericson) 36 #1074

(with Fujii, Mitsuaki) Optimal point sampling in stochastic processes. II. (Japanese) *Bull. Japan Statist. Soc.* 1967, 59-61 (1968). (C. Hayashi) 41 #7813

(with Isii, Keiiti) On optimal stratifications for multivariate distributions. *Skand. Aktuarietidskr.* 1969, 24-38. (Authors' summary) 40 #8178

Tagamlicki, Jaroslav

On the separability principle in associative Abelian spaces. (Bulgarian. Russian and German summaries) *Bŭlgar. Akad. Nauk Izv. Mat. Inst.* 7 (1963), 169-183. (S. B. Prešić) 29 #179

Tagamlitzki, Yaroslav. See Tagamlicki, Jaroslav.

Tagiev, F. A.

An approximate solution to the Tricomi problem in a general case for the equation: $LU \equiv \partial^2U/\partial x^2 + \text{sign}\ y\ \partial^2U/\partial y^2 = 0$. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 3, 60-67. (E. L. Albasiny) 34 #978

Solution of the Tricomi problem with a general condition of identification by the method of nets. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1966, *no.* 4, 48-53. (E. L. Albasiny) 34 #5324

The solution of the Dirichlet problem for an equation of M. V. Keldyš type by the method of finite differences. (Russian) *Problems Comput. Math. (Russian), pp.* 187-195. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. (M. Zlámal) 36 #2328

(with Čeljabieva, È. A.) An approximate solution of the Dirichlet problem for Čaplygin type equations. (Russian) *Problems Comput. Math. (Russian), pp.* 64-71. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. (J. Friberg) 39 #3720

Solution of a Tricomi problem with general glueing conditions by a method of nets and quadrature. (Russian) *Problems Comput. Math. (Russian), pp.* 45-63. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. (L. von Wolfersdorf) 39 #4523

Tagiev, I. G.

(with Ahund-Zade, M. Ju.) An approximate method for the solution of the equilibrium equations of shallow shells for large deflections. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 3, 3-7. (Z. Kączkowski) 34 #1000

On the solution of the problem of the free vibration of shallow shells of variable slope. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 3, 61-64. (P. P. Teodorescu) 43 #2896

Tagieva, M. A.

Phragmén-Lindelöf theorems for pseudoanalytic functions. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1967, *no.* 5, 46-52. (I. N. Baker) 41 #8695

(with Ismaĭlov, A. Ja.) The representation of generalized analytic functions by series of pseudopolynomials. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1022-1024. (Š. A. Alimov) 43 #543

Tagirov, È. A.

(with Černikov, N. A.) Commutator function of a scalar field in the two-dimensional model of pseudo-Riemannian space-time. *Dokl. Akad. Nauk SSSR* 160 (1965), 1049-1052 *(Russian); translated as Soviet Physics Dokl.* 10 (1965), 114-116. (K. J. Le Couteur) 32 #5318

(with Černikov, N. A.) Quantum theory of scalar field in de Sitter space-time. (French summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 9 (1968), 109-141. (P. G. Bergmann) 42 #5592

Tagliabue, G. Morpugo. See Morpugo-Tagliabue, G.

Taguchi, Genichi

A randomly combined design. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 9 (1962), 93-126. (M. Atiqullah) 31 #5300

Taguchi, Hideo

(with Fujii, Katsuhiko; Nishimura, Yukio) Improvement of steepest-descent method for optimizing control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 38-43. (Authors' summary) 42 #3984

Taguchi, Tokio

On Pareto's distribution and curve. (Japanese. English summary) *Proc. Inst. Statist. Math.* 12 (1964/65), 293-313. 32 #1795

Concentration-curve methods and structures of skew populations: A methodology for the analysis of economic data. *Ann. Inst. Statist. Math.* 20 (1968), 107-141. (E. H. Lehman, Jr.) 37 #5966

Taguchi, Toriichi

(with Saitô, Tôru) On half-automorphisms in the bicyclic semigroup. (Japanese. English summary) *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 11-12. (T. Tamura) 35 #6770

Taguti, Tokio. See Taguchi, Tokio.

Taha, M. O.

(with Ahmed, M. A.) Extension of Sugawara's theory of currents. *Phys. Rev.* (2) 188 (1969), 2517-2521. (G. R. Allcock) 41 #4977

Taha, Mohamed Abdel-Hamid

Über die verallgemeinerten Teste von Kolmogorov und Smirnov für unstetige Verteilungen. (French, English, and Italian summaries) *Mitt. Verein. Schweiz. Versich.-Math.* 64 (1964), 145-174. (R. Pyke) 29 #2898

Rank test for scale parameter for asymmetrical one-sided distributions. *Publ. Inst. Statist. Univ. Paris* 13 (1964), 169-179. (L. Schmetterer) 31 #4131

Tahara, Kenichi

On the hyperelliptic Riemann surfaces of infinite genus with absolutely convergent Riemann's theta functions. *Nagoya Math. J.* 33 (1968), 57-73. (Y. Kusunoki) 38 #3427

On the formal theta functions of countably many variables. *Nagoya Math. J.* 33 (1968), 173-194. (D. B. Scott) 38 #6055

On the finite subgroups of GL (3, Z). *Nagoya Math. J.* 41 (1971), 169-209. (W. Feit) 42 #7791

Tahim, G. S.

Controllability of linear systems with time lag. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 346-352. *Univ. Illinois, Urbana, Ill.,* 1965. (M. Q. Jacobs) 40 #2402

The problem of Lur'e in systems with time lag. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 259-262. *Univ. of Illinois, Urbana, Ill.,* 1967. (Author's summary) 41 #8085

Tahira, Honda

Formula for the class-number of an algebraic field. (Japanese) *Sûgaku* 16 (1965), 129-138. (E. Inaba) 35 #4193

Tahir-Kheli, Raza A.

(with Callen, Herbert B.) Longitudinal correlation function of the Heisenberg ferromagnet. *Phys. Rev.* (2) 135 (1964), A679-A684. (Authors' summary) 30 #869

(with Jarrett, H. S.) Ferromagnetic Curie temperature in cubic lattices with next-nearest-neighbor interaction. *Phys. Rev.* (2) 135 (1964), A1096-A1098. (J. L. Gammel) 30 #1827

Tahir Shah, K.

(with Nagel, John G.) Expansion of the inhomogeneous symplectic Lie algebras $T(2n) \dotplus \mathrm{Sp}(n)$ to $\mathrm{Sp}(n+2)$. *J. Mathematical Phys.* 11 (1970), 1483-1488. (N. Mukunda) 41 #7947

Tahtadžjan, K. A.

Logical formulae that are preserved under a strong homomorphism. (Armenian. Russian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 4 (1969), *no.* 1, 66-68. (Author's summary) 42 #52

Tai, Chen To.

A study of electrodynamics of moving media. *Proc. IEEE* 52 (1964), 685-689. (T. Erber) 29 #6797

Taĭ, M. L.

Conjugate conditions for the density of the transition probability of Markov's process with discontinuous drift and diffusion coefficients. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 341-349. (Petr Mandl) 33 #6704

Conjugate conditions for the density of the transition probability of a multidimensional Markov process. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 834-836. (Petr Mandl) 33 #6705

(with Gudkov, D. A.; Utkin, G. A.) A complete classification of indecomposable curves of the fourth order. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 222-256. (M. Decuyper) 33 #6494

(with Brusin, V. A.) Absolute stochastic stability. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 10 (1967), 940-947. (A. Moro) 35 #7721

On determining the density of the transition probability of a Markov process. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 11 (1968), 980-984. (G. E. Denzel) 38 #6672

(with Neĭmark, Ju. I.; Čertok, D. M.) Determination of optimal control strategies in extremal systems. (Russian. English summary) *Izv. Vysš Učebn. Zaved. Radiofizika* 13 (1970), 1202-1210. (K. Magnus) 44 #3729

Tai, Shin-sheng

Minimum imbeddings of compact symmetric spaces of rank one. *J. Differential Geometry* 2 (1968), 55-66. (S. Kobayashi) 37 #6950

Tai, Shu-sen. See Tai Shu-sen.

Tai, Tsun Wu. See Wu, Tai Tsun.

Tai, Yung-sheng

On a conjecture of Lang. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 121-123. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (L. R. McCulloh) 38 #5747

Taibleson, Mitchell H.

On the theory of Lipschitz spaces of distributions on Euclidean n-space. I. Principal properties. *J. Math. Mech.* 13 (1964), 407-479. (J. Horváth) 29 #462

On the theory of Lipschitz spaces of distributions on Euclidean n-space. II. Translation invariant operators, duality, and interpolation. *J. Math. Mech.* 14 (1965), 821-839. (J. Horváth) 31 #5087

A note on indefinite integrals. *Proc. Amer. Math. Soc.* 16 (1965), 923-925. (H. M. Schaerf) 34 #7766

Mean and pointwise convergence of logarithmic means of Laplace series. *Scripta Math.* 28 (1965), 197-203 (1968). (J. Burlak) 38 #2522

(with Sally, P. J., Jr.) Special functions on locally compact fields. *Acta Math.* 116 (1966), 279-309. (L. Carlitz) 34 #6168

On the theory of Lipschitz spaces of distributions on Euclidean n-space. III. Smoothness and integrability of Fourier transforms, smoothness of convolution kernels. *J. Math. Mech.* 15 (1966), 973-981. (J. Horváth) 33 #6381

Fourier series on the ring of integers in a p-series field. *Bull. Amer. Math. Soc.* 73 (1967), 623-629. (M. Hasumi) 36 #611

Fourier coefficients of functions of bounded variation. *Proc. Amer. Math. Soc.* 18 (1967), 766. (W. A. Veech) 35 #3348

Harmonic analysis on n-dimensional vector spaces over local fields. I. Basic results on fractional integration. *Math. Ann.* 176 (1968), 191-207. (M. Hasumi) 37 #1984

(with Phillips, Keith) Singular integrals in several variables over a local field. *Pacific J. Math.* 30 (1969), 209-231. (P. G. Rooney) 40 #7886

Harmonic analysis on n-dimensional vector spaces over local fields. II. Generalized Gauss kernels and the Littlewood-Paley function. *Math. Ann.* 186 (1970), 1-19. (M. Hasumi) 41 #8989

Harmonic analysis on n-dimensional vector spaces over local fields. III. Multipliers. *Math. Ann.* 187 (1970), 259-271. (M. Hasumi) 42 #8178

Tai Chih-chung

On discrete valuations. *Acta Math. Sinica* 13 (1963), 17-22 *(Chinese); translated as Chinese Math.* 4 (1963), 18-23. (O. F. G. Schilling) 29 #2252

Riemann-Roch theorem for the algebraic function domains of one variable. (Chinese) *Shuxue Jinzhan* 7 (1964), 231-239. (Editors) 32 #5653

On complete fields with multiple valuation. (Chinese) *Shuxue Jinzhan* 9 (1966), 401-406. (C. C. Wu) 40 #5593

T'ai Chu-wei

(with Li Pao-shou; Wang Yu-yin) A computing method for linear time optimal control systems. *Sci. Sinica* 14 (1965), 267-282. (Authors' summary) 32 #1052

Taĭclin, M. A.

(with Eršov, Ju. L.) Undecidability of certain theories. (Russian) *Algebra i Logika Sem.* 2 (1963), *no.* 5, 37-41. (H. Rasiowa) 30 #3018

Decidability of certain elementary theories. (Russian) *Algebra i Logika Sem.* 3 (1964), *no.* 3, 5-12. (H. Rasiowa) 31 #4726

On elementary theories of free nilpotent algebras. (Russian) *Algebra i Logika Sem.* 3 (1964), *no.* 5-6, 57-63. (H. Rasiowa) 32 #5519

On the theory of finite rings with division. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 4, 103-114. (R. F. Wheeler) 35 #1641

On elementary theory of classical Lie algebras. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 1243-1245. (A. J. Coleman) 33 #1338

(with Eršov, Ju. L.; Lavrov, I. A.; Taĭmanov, A. D.) Elementary theories. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 37-108. (J. Sonner) 32 #4012

On elementary theories of commutative semigroups with cancellation. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 1, 51-69. (S. Lajos) 33 #5486

On elementary theories of commutative semigroups. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 4, 55-89. (S. Lajos) 35 #2985

Two remarks on isomorphisms of commutative semigroups. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 1, 95-110. (S. Lajos) 35 #5531

Some further examples of undecidable theories. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 3, 105-111. (A. Heyting) 37 #69

The elementary theories of lattices of ideals in polynomial rings. (Russian) *Algebra i Logika* 7 (1968), *no.* 2, 94-97. (B. M. Schein (Šaĭn)) 38 #4312

Prime ideals in polynomial rings. (Russian) *Algebra i Logika* 7 (1968), *no.* 6, 64-66. (Chr. U. Jensen) 40 #5607

Algorithmic problems for commutative semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 786-789. (S. Lajos) 37 #2878

On the isomorphism problem for commutative semigroups. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 375-401. (B. M. Schein (Šaĭn)) 37 #330

Equivalence of automata with respect to a commutative semigroup. (Russian) *Algebra i Logika* 8 (1969), 553-600. (B. Csákány) 44 #3874

(See also Mal′cev, A. I., 44 #142)

Elementary theories of lattices of subgroups. (Russian) *Algebra i Logika* 9 (1970), 473-483. (J. Sonner) 44 #1739

Tai Ju-wei. See T'ai Chu-wei.

Taĭkov, L. V.

On approximation of periodic functions in the mean. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 301-302. (G. G. Lorentz) 33 #1643

(with Stečkin, S. B.) On minimal extensions of linear functionals. (Russian) *Trudy Mat. Inst. Steklov.* 78 (1965), 12-23. (George Biriuk) 33 #555

A generalization of an inequality of S. N. Bernšteĭn. (Russian) *Trudy Mat. Inst. Steklov.* 78 (1965), 43-47. (R. R. Goldberg) 32 #8022

A group of extremal problems for trigonometric polynomials. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 205-211. (G. G. Lorentz) 32 #2829

Best approximation in the mean of certain classes of analytic functions. (Russian) *Mat. Zametki* 1 (1967), 155-162. . (I. M. Sheffer) 35 #2047

New regularity tests for triangular summation methods. (Russian) *Mat. Zametki* 1 (1967), 541-547. (O. E. Stanaitis) 35 #2013

The approximation in the mean of certain classes of periodic functions. (Russian) *Trudy Mat. Inst. Steklov.* 88 (1967), 61-70. (D. P. Gupta) 36 #5595

(with Subbotin, Ju. N.) Best approximation of a differentiation operator in the space L_2. (Russian) *Mat. Zametki* 3 (1968), 157-164. (P. C. Sikkema) 37 #4471

Inequalities of Kolmogorov type and best formulas for numerical differentiation. (Russian) *Mat. Zametki* 4 (1968), 233-238. (J. Peetre) 38 #1459

Taĭmanov, A. D.

The characteristics of axiomatizable classes of models. (Russian) *Algebra i Logika Sem.* 1 (1962), *no.* 4, 5-31. (M. Taĭclin (RŽMat 1963 #9 A69)) 33 #5490

(with Eršov, Ju. L.; Lavrov, I. A.; Taĭclin, M. A.) Elementary theories. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 37-108. (J. Sonner) 32 #4012

On formulae of Horn-type. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 523-524. (R. A. Good) 34 #1160

A remark on the Mostowski-Ehrenfeucht theorem. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 3, 101-103. (S. Comer) 36 #1317

Automorphisms of an algebra having one unary operation in the signature. (Russian) *Algebra i Logika* 6 (1967), *no.* 5, 21-31. (B. Węglorz) 37 #2591

Systems with a solvable universal theory. (Russian) *Algebra i Logika* 6 (1967), *no.* 5, 33-43. (S. Comer) 37 #6173

(with Aleksandrov, P. S.; Eršov, Ju. L.; Kargapolov, M. I.; Kuz′min, E. N.; Smirnov, D. M.; Širšov, A. I.) Anatoliĭ Ivanovič Mal′cev: Obituary. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 159-170. *(1 plate)* (Editors) 37 #19

(See also Kuratowski, K.; Mostowski, A., 42 #2944)

Taĭmurazov, H. I.

A mixed problem for an equation of hyperbolic type with a nonlinear portion. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 1, 70-75. (R. N. Goss) 36 #2970

Tainiter, Melvin

On stochastic counting processes associated with a semi-Markov process. *J. Soc. Indust. Appl. Math.* 12 (1964), 734-744. (Author's summary) 31 #820

Some stochastic inventory models for rental situations. *Management Sci.* 11 (1964/65), 316-326. (F. G. Foster) 32 #5393

Sequential hypothesis tests for the *r*-dependent marginally stationary processes. *Ann. Math. Statist.* 37 (1966), 90-97. (J. Sacks) 32 #6633

Generating functions on idempotent semigroups with application to combinatorial analysis. *J. Combinatorial Theory* 5 (1968), 273-288. (M. A. Harrison) 38 #65

A characterization of idempotents in semigroups. *J. Combinatorial Theory* 5 (1968), 370-373. (F. M. Sioson) 38 #1197

Algebraic approach to stopping variable problems: Representation theory and applications. *J. Combinatorial Theory* 9 (1970), 148-161. (P. E. Ney) 42 #2520

Incidence algebras on generalized semigroups. I. *J. Combinatorial Theory Ser. A* 11 (1971), 170-177. (R. L. Davis) 44 #358

Tairov, M. A.

Numerical solution of a certain nonlinear boundary value problem of two-phase fluid flow in a porous medium. (Russian) *Problems Comput. Math. (Russian), pp.* 24-33. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. (Şt. I. Gheorghiţă) 40 #2279

Tairova, V. G.

"Streckenkomplexe" of a certain class of closed Riemann surfaces. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 929-951. (P. Caraman) 30 #2142

Tai Shu-sen

(with Chang Li-ch'ien) On the orthogonal relations among orthomorphisms of noncommutative groups of small orders. *Acta Math. Sinica* 14 (1964), 471-480 *(Chinese); translated as Chinese Math.- Acta* 5 (1964), 506-515. (N. S. Mendelsohn) 30 #4690

(with Chang Li-ch'ien; Hsiang K'o-feng) Congruent mappings and congruence classes of orthomorphisms of groups. *Acta Math. Sinica* 14 (1964), 747-756 *(Chinese); translated as Chinese Math.- Acta* 6 (1965), 141-152. (N. S. Mendelsohn) 31 #1220

Tait, J. H.

* An introduction to neutron transport theory. *American Elsevier Publishing Co., Inc., New York,* 1965. x + 142 *pp.* (J. Peretti) 35 #6429

Tait, K. E.

Stability properties of discrete-continuous feedback control systems with signal dependent sampling. I. A bibliographical survey. *Internat. J. Control* (1) 8 (1968), 591-620. 38 #1926

Tait, Peter Guthrie

* (with Thomson, William) Principles of mechanics and dynamics. Part I. *Dover Publications, Inc., New York,* 1962. xvii + 508 *pp.* (Editors) 32 #1935

* (with Thomson, William) Principles of mechanics and dynamics. Part II. *Dover Publications, Inc., New York,* 1962. xxv + 527 *pp.* (Editors) 33 #1995

Tait, R.

Error analysis of recurrence equations. *Math. Comp.* 21 (1967), 629-638. (Author's summary) 36 #4788

Tait, W.

(with Cornwell, J. F.) Coupling of de Sitter space-time and internal symmetry. *J. Mathematical Phys.* 12 (1971), 1651-1654. (M. Carmeli) 44 #5069

Tait, William W.

Infinitely long terms of transfinite type. *Formal Systems and Recursive Functions (Proc. Eighth Logic Colloq., Oxford, 1963), pp.* 176-185. *North-Holland, Amsterdam,* 1965. (R. E. Vesley) 33 #3925

Functionals defined by transfinite recursion. *J. Symbolic Logic* 30 (1965), 155-174. (G. Kreisel) 34 #1161

The substitution method. *J. Symbolic Logic* 30 (1965), 175-192. (G. Kreisel) 34 #1162

A nonconstructive proof of Gentzen's Hauptsatz for second order predicate logic. *Bull. Amer. Math. Soc.* 72 (1966), 980-983. (K. Schütte) 34 #5655

Intensional interpretations of functionals of finite type. I. *J. Symbolic Logic* 32 (1967), 198-212. (G. Kreisel) 36 #2483

Constructive reasoning. *Logic, Methodology and Philos. Sci. III (Proc. Third Internat. Congr., Amsterdam, 1967), pp.* 185-199. *North-Holland, Amsterdam,* 1968. (G. Kreisel) 41 #1533

Applications of the cut elimination theorem to some subsystems of classical analysis. *Intuitionism and Proof Theory (Proc. Conf., Buffalo, N. Y., 1968), pp.* 475-488. *North-Holland, Amsterdam,* 1970. (E. G. K. López-Escobar) 44 #6462

Tai Tsung-to

(with Feng Hsü-ning) Notes on finite geometries and the construction of PBIB designs. IV. Some "Anzahl" theorems in orthogonal geometry over finite fields of characteristic not 2. *Sci. Sinica* 13 (1964), 2001-2004. (P. Dembowski) 30 #2392d

(with Feng Hsü-ning) Notes on finite geometries and the construction on PBIB designs. V. Some "Anzahl" theorems in orthogonal geometry over finite fields of characteristic 2. *Sci. Sinica* 13 (1964), 2005-2008. (P. Dembowski) 30 #2392e (with Feng Hsü-ning) Studies in finite geometries and the construction of incomplete block designs. IV. Some "Anzahl" theorems in orthogonal geometry over finite fields of characteristic $\neq 2$. *Acta Math. Sinica* 15 (1965), 545-558 *(Chinese); translated as Chinese Math.— Acta* 7 (1965), 265-280. (P. Dembowski) 32 #6313d

(with Feng Hsü-ning) Studies in finite geometries and the construction of incomplete block designs. V. Some "Anzahl" theorems in orthogonal geometry over finite fields of characteristic 2. *Acta Math. Sinica* 15 (1965), 664-682 *(Chinese); translated as Chinese Math.— Acta* 7 (1965), 392-410. (P. Dembowski) 32 #6313e

On transitivity of subspaces in orthogonal geometry over fields of characteristic 2. *Acta Math. Sinica* 16 (1966), 545-560 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 569-584. (J. Dieudonné) 35 #209

Tai Yuan-pen

The Regge behaviour of the scattering amplitude for a highly singular potential. *Sci. Sinica* 12 (1963), 1395-1398. (E. Predazzi) 30 #2842

Regge poles for Z^{-4} repulsive potential. *Sci. Sinica* 13 (1964), 1319-1322. (P. Roman) 30 #2843

The analyticity in the complex angular momentum variable of the s-matrix element for a nonlocal potential. *Sci. Sinica* 13 (1964), 1496-1500. (F. Calogero) 30 #4499

The Regge behavior for a class of nonlocal potentials. (Chinese. English summary) *Acta Phys. Sinica* 21 (1965), 765-778. (Hung Cheng) 32 #8753

A representation of the S matrix element for a highly singular potential. (Chinese. English summary) *Acta Phys. Sinica* 21 (1965), 983-988. (S. Y. Chu) 33 #8174

(with Chou Lung-hsiang) The asymptotic Regge behaviour for the nonlocal potentials $(e^{-\mu r}/r)\cdot(e^{-\mu r'}/r')\cdot(e^{-\alpha R}/R)$ and $(e^{-\mu r}/r)\cdot(e^{-\mu r'}/r')\cdot(\exp(-\sqrt{[\beta(r+r')\cdot R]})/R)$. (Chinese. English summary) *Acta Phys. Sinica* 21 (1965), 1552-1569. (Editors) 32 #6916

The Regge behaviour for a class of nonlocal potentials. *Sci. Sinica* 14 (1965), 47-61. (E. Predazzi) 32 #2051

A representation of the S-matrix element for a highly singular potential. *Sci. Sinica* 14 (1965), 689-694. (F. Calogero) 32 #2052

(with Chou Lung-hsiang) The asymptotic Regge behaviour for the nonlocal potentials $(e^{-\mu r}/r)\cdot(e^{-\mu r'}/r')\cdot(e^{-\alpha R}/R)$ and $(e^{-\mu r}/r)\cdot(e^{-\mu r'}/r')\cdot(\exp(-\sqrt{[\beta(r+r')\cdot R]})/R)$. *Sci. Sinica* 14 (1965), 695-704. (E. Predazzi) 32 #2043

Tai Zhi-zhong. See T'ai Chih-chung.

Takabayasi, Takehiko

Quadrilocal model of baryons and unitary symmetry. *Phys. Rev.* (2) 139 (1965), B1381-B1387. (Jean Nuyts) 33 #7024b

Space-time model of elementary particles and unitary symmetry. I. General foundation and symmetry. *Progr. Theoret. Phys.* 34 (1965), 124-154. (Jean Nuyts) 33 #7024a

Takács, Lajos

Transient behavior of single-server queueing processes with Erlang input. *Trans. Amer. Math. Soc.* 100 (1961), 1-28. (D. J. Daley) 31 #5254

The limiting distribution of the virtual waiting time and the queue size for a single-server queue with recurrent input and general service times. *Sankhyā Ser. A* 25 (1963), 91-100. (T. Kawata) 30 #2572

* Processus stochastiques. Problèmes et solutions. Traduction française d'après la traduction anglaise de P. Zádor. Monographies Dunod, 55. *Dunod, Paris,* 1964. ix + 190 *pp.* (Editors) 29 #1666

An application of a ballot theorem in order statistics. *Ann. Math. Statist.* 35 (1964), 1356-1358. (M. Dwass) 29 #1703

The use of a ballot theorem in order statistics. *J. Appl. Probability* 1 (1964), 389-392. (J. Kiefer) 29 #6590

Fluctuations in the ratio of scores in counting a ballot. *J. Appl. Probability* 1 (1964), 393-396. (J. Kiefer) 29 #6591

A combinatorial method in the theory of Markov chains. *J. Math. Anal. Appl.* 9 (1964), 153-161. (J. Riordan) 29 #1667

Occupation time problems in the theory of queues. *Operations Res.* 12 (1964), 753-767. (J. Gani) 30 #1555

Combinatorial methods in the theory of queues. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 207-219. (F. G. Foster) 31 #2770

Application of ballot theorems in the theory of queues. (With discussion) *Proc. Sympos. Congestion Theory (Chapel Hill, N. C., 1964), pp.* 337-398. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1965. (Author's summary) 32 #6577

A combinatorial theorem for stochastic processes. *Bull. Amer. Math. Soc.* 71 (1965), 649-650. (S. M. Berman) 31 1708

A moment problem. *J. Austral. Math. Soc.* 5 (1965), 487-490. (A. Dvoretzky) 34 #6836

Applications of a ballot theorem in physics and in order statistics. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 130-137. (J. H. Stapleton) 33 #5045

The distributions of some statistics depending on the deviations between empirical and theoretical distribution functions. *Sankhyā Ser. A* 27 (1965), 93-100. (Author's summary) 32 #4725

On the distribution of the supremum for stochastic processes with interchangeable increments. *Trans. Amer. Math. Soc.* 119 (1965), 367-379. (J. Gani) 34 #8480

* Stochastische Prozesse. Aufgaben und Losungen. Aus dem Englischen übersetzt von Hans-Dietrich Weber. *R. Oldenbourg Verlag, Munich-Vienna,* 1966. 140 *pp.* (Editors) 34 #2058

The distribution of the content of a dam when the input process has stationary independent increments. *J. Math. Mech.* 15 (1966), 101-112. (N. U. Prabhu) 34 #6881

On combinatorial methods in the theory of stochastic processes. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part* 1, *pp.* 431-447. *Univ. California Press, Berkeley, Calif.,* 1967. (Simeon M. Berman) 35 #4980

* Combinatorial methods in the theory of stochastic processes. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. xi + 262 *pp.* (J. Riordan) 36 #947

On the method of inclusion and exclusion. *J. Amer. Statist. Assoc.* 62 (1967), 102-113. (J.-P. Imhof) 36 #921

The distribution of the content of finite dams. *J. Appl. Probability* 4 (1967), 151-161. (N. U. Prabhu) 34 #6882

On dams of finite capacity. *J. Austral. Math. Soc.* 8 (1968), 161-170. (N. U. Prabhu) 37 #2340

On Erlang's formula. *Ann. Math. Statist.* 40 (1969), 71-78. (N. U. Prabhu) 38 #3942

On the classical ruin problems. *J. Amer. Statist. Assoc.* 64 (1969), 889-906. (Author's summary) 39 #7656

On inverse queuing processes. *Zastos. Mat.* 10 (1969), 213-224. (C. Pearce) 40 #2179

Combinatorial methods in the theory of order statistics. With discussion by H. A. David. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 359-384, 402-403. *Cambridge Univ. Press, London,* 1970. (Bernard Harris) 43 #4199

On the distribution of the maximum of sums of mutually independent and identically distributed random variables. *Advances in Appl. Probability* 2 (1970), 344-354. (V. K. Rohatgi) 42 #1191

On the distribution of the supremum for stochastic processes. *Ann. Inst. H. Poincaré Sect. B (N.S.)* 6 (1970), 237-247. (C. C. Heyde) 43 #4144

A fundamental identity in the theory of queues. *Ann. Inst. Statist. Math.* 22 (1970), 339-348. (A. Descloux) 43 #5637

On the fluctuations of election returns. *J. Appl. Probability* 7 (1970), 114-123. (N. U. Prabhu) 40 #6662

On risk reserve processes. *Skand. Aktuarietidskr.* 1970, 64-75. (Author's summary) 43 #2784

* Комбинаторные методы в теории случайных процессов. (Russian) [Combinatorial methods in the theory of stochastic processes] Translated from the English by V. A. Malyšev. Edited by A. D. Solov'ev. *Izdat. "Mir", Moscow,* 1971. 264 *pp.* (Editors) 43 #2767

Takagi, Hitoshi

(with Sawaki, Sumio) On certain conditions for a K-space to be isometric to a sphere. *Kōdai Math. Sem. Rep.* 20 (1968), 198-208. (K. Yano) 37 #2152

On complex hypersurfaces of C^{n+1} satisfying a certain condition on the curvature tensor. *Sci. Rep. Niigata Univ. Ser. A. No.* 6 (1968), 9-16. (K. Yano) 39 #6218

(with Sekigawa, Kouei) On 3-dimensional Riemannian manifolds satisfying a certain condition on the curvature tensor. *Sci. Rep. Niigata Univ. Ser. A No.* 7 (1969), 23-27. (M. Kurita) 42 #3707

A class of homogeneous Riemannian manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 8 (1971), 13-17. (S. Takizawa) 44 #955

(with Sekigawa, Kouei) On conformally flat spaces satisfying a certain condition on the Ricci tensor. *Tôhoku Math. J.* (2) 23 (1971), 1-11. (J. R. Vanstone) 44 #2170

Takagi, Kenzo

Design of multi-stage link systems by means of optimum channel graphs. *Electron. Commun. Japan* 51 (1968), *no.* 4, 37-46. (C. F. Picard) 41 #6624

Takagi, Masahide

On an extension of two-valued logic. Extended Boolean function and its applications. (Japanese summary) *RAAG Res. Notes* (3) *No.* 119 (1967), ii + 15 *pp.* (Ph. Dwinger) 35 #6593

Takagi, Ryoichi

(with Hatsuse, Kohei) On W^*-manifolds. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 10-16 (1969). (I. Chavel) 40 #6451

A note on Riemannian manifolds with a self-conjugate point. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 206-211 (1969). (T. Suguri) 41 #4441

(with Shiohama, Katsuhiro) A characterization of a standard torus in E^3. *J. Differential Geometry* 4 (1970), 477-485. (J. R. Vanstone) 43 #2646

Gauss map in a sphere. *Kōdai Math. Sem. Rep.* 22 (1970), 82-88. (T. J. Willmore) 41 #7594

Homogeneous hypersurfaces in a sphere with the type number 2. *Tôhoku Math. J.* (2) 23 (1971), 49-58. (M. Kurita) 44 #7495

Takaguchi, Makoto

(with Ando, Tsuyoshi) Commuting dilations of self-adjoint operators. *Proc. Japan Acad.* 41 (1965), 696-698. (A. Lebow) 34 #605

Commuting projections with assigned ranges. *Proc. Amer. Math. Soc.* 20 (1969), 368-374. (L. J. Wallen) 38 #3720

Takahara, Y.

(with Mesarović, M. D.) On the existence of satisfactory control. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif., 1967), pp. 213-221. Academic Press, New York,* 1967. (P. E. Sarachik) 41 #1419

Takahashi, Alonso

(See Restrepo, Guillermo, 40 #1830)

Foundations of analysis. I. (Spanish) *Bol. Mat.* 2 (1968), 36-62. (Editors) 40 #37a

Foundations of analysis. II. (Spanish) *Bol. Mat.* 2 (1968), 104-122. (Editors) 40 #37b

(with Takahashi, C.) A summability method. (Spanish) *Rev. Colombiana Mat.* 2 (1968), 29-44. (W. Beekmann) 38 #4848

* Del análisis a la topología. (Spanish) [From analysis to topology] Second edition. Revista de Matemáticas Elementales, Monografías Matemáticas, 6. *Publicaciones del Departamento de Matemáticas y Estadística, Facultad de Ciencias, Universidad Nacional de Colombia y de la Sociedad Colombiana de Matemáticas, Bogotá,* 1969. 195 *pp. (loose errata)* (L. Gillman) 41 #9172

Takahashi, C.

(with Takahashi, A.) A summability method. (Spanish) *Rev. Colombiana Mat.* 2 (1968), 29-44. (W. Beekmann) 38 #4848

Takahashi, Hidetoshi. See Takahasi, Hidetosi.

Takahashi, Hiromitsu

(with Shirakawa, Isao; Ozaki, Hiroshi) Planar decomposition of a complete graph. *Electron. Commun. Japan* 50 (1967), *no.* 11, 19-25. (S. T. Tan) 39 #97

(with Shirakawa, Isao; Ozaki, hiroshi) On the decomposition of a complete graph into planar subgraphs. *J. Franklin Inst.* 283 (1967), 379-388. (W. T. Tutte) 35 #2781

(with Shirakawa, Isao; Ozaki, Hiroshi) On the decomposition of a complete graph into planar graphs. *Tech. Rep. Osaka Univ.* 17 (1967), 1-8. (Editors) 35 #5352

(with Shirakawa, Isao; Ozaki, Hiroshi) Planar decomposition of a complete bipartite graph. *Tech. Rep. Osaka Univ.* 17 (1967), 221-227. (Editors) 38 #2045

(with Shirakawa, Isao; Ozaki, Hiroshi) On the planar decomposition of a complete bipartite graph. *SIAM J. Appl. Math.* 16 (1968), 408-416. (W. T. Tutte) 37 #5119

(with Shirakawa, Isao; Ozaki, Hiroshi) Synthesis of some classes of multivariable cascaded transmission-line networks. *Tech. Rep. Osaka Univ.* 18 (1968), 443-452. (B. J. Leon) 42 #2875

(with Shirakawa, Isao; Ozaki, Hiroshi) Thickness of some class of complete bipartite graphs. *Tech. Rep. Osaka Univ.* 18 (1968), 453-458. (F. Harary) 42 #2971

Takahashi, Hiroshi

(with Ichino, Ichiro) Theory of non-symmetrical bending state for cylindrical shell (Stresses in a cylindrical shell with a local radial load). *Bull. JSME* 8 (1965), 169-177. (F. Essenburg) 34 #5357

Takahashi, Iwarô

} (with Shinozawa, Shoji) The contracted simplex method. *NEC Res. Development No.* 11 (1968), 76-83. (A. Ben-Israel) 44 #1425

Takahashi, Ken-ichi

(with Sibuya, Yasutaka) On the differential equation $(x + \varepsilon u)du/dx + q(x)u - r(x) = 0$. *Funkcial. Ekvac.* 9 (1966), 71-81. (W. Wasow) 35 #494

A note on the PLK-method. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp. 507-517. Benjamin, New York,* 1967. (Y. Sibuya) 37 #3144

Takahashi, Koichi. See Takahasi, Koiti.

Takahashi, Masahiro

On topological-additive-group-valued measures. *Proc. Japan Acad.* 42 (1966), 330-334. (W. F. Pfeffer) 34 #1476

An extension of a generalized measure. *Proc. Japan Acad.* 42 (1966), 710-713. (W. F. Pfeffer) 34 #7756

Integration with respect to the generalized measure. I, II. *Proc. Japan Acad.* 43 (1967), 178-183; *ibid.* 43 (1967), 184-185. (W. F. Pfeffer) 36 #344

Integration with respect to the generalized measure. III, IV. *Proc. Japan Acad.* 44 (1968), 452-456; *ibid.* 44 (1968), 457-461. (S. Newberger) 37 #5357

Takahashi, Masako

An improved proof for a theorem of N. Chomsky. *Proc. Japan Acad.* 45 (1969), 441-442. (S. Ginsburg) 40 #5364

On the overrelaxation factor of the SOR method. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 1-9 (1969). (B. N. Parlett) 40 #8281

Takahashi, Masayuki

Recursive games with infinitely many strategies. *J. Sci. Hiroshima Univ. Ser. A — I Math.* 27 (1963), 51-59. (M. Maschler) 33 #3794

Equilibrium points of stochastic non-cooperative n-person games. *J. Sci. Hiroshima Univ. Ser. A - I Math.* 28 (1964), 95-99. (M. Dresher) 31 #3232

(with Sugawara, S.) On some queues occurring in an integrated iron and steel works. *J. Operations Res. Soc. Japan* 8 (1965), 16-23. (D. V. Lindley) 33 #8049

A generalization of Kuhn's theorem for an infinite game. *J. Sci. Hiroshima Univ. Ser. A — I Math.* 33 (1969), 237-242. (A. J. Lohwater) 43 #8387

Takahashi, Motoo

On the axiom of foundation. (Japanese) *Sûgaku* 16 (1965), 227-229. (K. Ono) 33 #3911

On incomparable cardinals. *Comment. Math. Univ. St. Paul.* 16 (1967/68), 129-142. (F. R. Drake) 37 #2599

A proof of cut-elimination theorem in simple type-theory. *J. Math. Soc. Japan* 19 (1967), 399-410. (K. Schütte) 36 #2491

Recursive functions of ordinal numbers and Lévy's hierarchy. *Comment. Math. Univ. St. Paul.* 17 (1968), 21-29. (A. Lévy) 39 #6751

Ackermann's model and recursive predicates. *Proc. Japan Acad.* 44 (1968), 41-42. (A. Lévy) 37 #2603

Simple type theory of Gentzen style with the inference of extensionality. *Proc. Japan Acad.* 44 (1968), 43-45. (K. Schütte) 40 #5442

Many-valued logics of extended Gentzen style. I. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 9, 271-292 (1968). (Author's summary) 37 #39

On simple type theory. (Japanese) *Sûgaku* 20 (1968), 129-141. (G. Takeuti) 40 #2535

An induction principle in set theory. I. *Yokohama Math. J.* 17 (1969), 53-59. (L. Bukovský) 40 #5439

Continuous λ-ε logics. *Ann. Japan Assoc. Philos. Sci.* 3, 205-215 (1970). (Author's summary) 44 #6451

A system of simple type theory of Gentzen style with inference on extensionality, and the cut-elimination in it. *Comment. Math. Univ. St. Paul.* 18 (1970), 129-147. (R. Parikh) 43 #44

A theorem on the second-order arithmetic with the ω-rule. *J. Math. Soc. Japan* 22 (1970), 15-24. (E. G. K. Lopez-Escobar) 40 #7086

Many-valued logics of extended Gentzen style. II. *J. Symbolic Logic* 35 (1970), 493-528. (From the author's summary) 44 #6452

Takahashi, Reiji

Sur les représentations unitaires des groupes de Lorentz généralisés. *Bull. Soc. Math. France* 91 (1963), 289-433. (T. S. Bhanu Murthy) 31 #3544

Über p-adische Kugelfunktionen und unitäre Darstellungen der Modulargruppen. *J. Math. Soc. Japan* 20 (1968), 350-364. (J. Spilker) 37 #6380

Spherical functions and representations of groups. (Japanese) *Sûgaku* 19 (1968), 204-213. (T. Ono) 43 #3520

Takahashi, Shigeru

A version of the central limit theorem for trigonometric series. *Tôhoku Math. J.* (2) 16 (1964), 384-398. (T. Kawata) 30 #4114

On lacunary trigonometric series. *Proc. Japan Acad.* 41 (1965), 503-506. (T. Kawata) 33 #4564

On trigonometric series with gaps. *Tôhoku Math. J.* (2) 17 (1965), 227-234. (M. E. Noble) 32 #4459

On the lacunary Fourier series. *Tôhoku Math. J.* (2) 19 (1967), 79-85. (F. C. Hsiang) 35 #2067

On lacunary trigonometric series. II. *Proc. Japan Acad.* 44 (1968), 766-770. (T. Kawata) 39 #4583

On the central limit theorem for lacunary trigonometric series. *Tôhoku Math. J.* (2) 20 (1968), 289-295. (J. E. A. Dunnage) 38 #6294

On trigonometric Fourier coefficients. *Tôhoku Math. J.* (2) 21 (1969), 406-418. (F. Liverani) 40 #4659

Lacunary trigonometric sum and probability. *Tôhoku Math. J.* (2) 22 (1970), 502-510. (R. Kaufman) 43 #799

Takahashi, Shōichi

An explicit representation of the generalized principal ideal theorem for the rational ground field. *Tôhoku Math. J.* (2) 16 (1964), 176-182. (G. Whaples) 32 #4115

On Tannaka-Terada's principal ideal theorem for rational ground field. *Tôhoku Math. J.* (2) 17 (1965), 87-104. (G. Whaples) 32 #4116

Takahashi, Shuichi

A characterization of group rings as a special class of Hopf algebras. *Canad. Math. Bull.* 8 (1965), 465-475. (P. Abellanas) 32 #2459

Generation of Galois extensions by matrix roots. *J. Math. Soc. Japan* 20 (1968), 365-370. (E. Inaba) 37 #195

* Analysis in categories. Queen's Papers in Pure and Applied Mathematics, No. 18. *Queen's University, Kingston, Ont.,* 1969. iv + 131 *pp.* (V. Krishnamurthy) 42 #7747

Anneaux tordus de groupes comme des anneaux de Hilbert. *J. Algebra* 20 (1972), 161-166. (H. K. Farahat) 44 #2852

Takahashi, Takao

(with Hatakeyama, Yoji) On the existence of Riemannian metrics associated with certain structures. *Sci. Rep. Hirosaki Univ.* 14 (1967), 10-13. (T. Nagano) 41 #2592

Takahashi, Tatsuo. See Kawata, Tatsuo.

(The sign } indicates an entry in the supplement.)

Takahashi, Toshio

A note on certain hypersurfaces of Sasakian manifolds. *Kōdai Math. Sem. Rep.* 21 (1969), 510-516. (K. Yano) 40 #7985

Sasakian manifold with pseudo-Riemannian metric. *Tôhoku Math. J.* (2) 21 (1969), 271-290. (W. S. Piper) 40 #1949

Sasakian hypersurfaces in a space of constant curvature. *Tôhoku Math. J.* (2) 21 (1969), 644-653. (W. S. Piper) 41 #4454

(with Tanno, Shûkichi) Some hypersurfaces of a sphere. *Tôhoku Math. J.* (2) 22 (1970), 212-219. (A. Fialkow) 42 #3719

Takahashi, Toyofumi

On extensions with given ramification. *Proc. Japan Acad.* 44 (1968), 771-775. (H. Yokoi) 40 #127

Galois cohomology of finitely generated modules. *Tôhoku Math. J.* (2) 21 (1969), 102-111. (J. P. Labute) 40 #5706

Takahashi, Tsunero

Correction to "The index theorem in Riemannian geometry", by W. Ambrose. *Ann. of Math.* (2) 80 (1964), 538-541. (H. M. Edwards, Jr.) 30 #545

Minimal immersions of Riemannian manifolds. *J. Math. Soc. Japan* 18 (1966), 380-385. (J. Eells) 33 #6551

Hypersurface with parallel Ricci tensor in a space of constant holomorphic sectional curvature. *J. Math. Soc. Japan* 19 (1967), 199-204. (A. G. Walker) 35 #2252

Homogeneous hypersurfaces in spaces of constant curvature. *J. Math. Soc. Japan* 22 (1970), 395-410. (S. Kobayashi) 42 #3718

An isometric immersion of a homogeneous Riemannian manifold of dimension 3 in the hyperbolic space. *J. Math. Soc. Japan* 23 (1971), 649-661. (M. Okumura) 44 #7481

Takahashi, Wataru

(with Kijima, Yôichi) A fixed point theorem for nonexpansive mappings in metric space. *Kōdai Math. Sem. Rep.* 21 (1969), 326-330. (L. P. Belluce) 41 #7670

Fixed point theorem for amenable semigroup of nonexpansive mappings. *Kōdai Math. Sem. Rep.* 21 (1969), 383-386. (E. Dubinsky) 41 #7501

A convexity in metric space and nonexpansive mappings. I. *Kōdai Math. Sem. Rep.* 22 (1970), 142-149. (W. A. Kirk) 42 #2467

Invariant ideals for amenable semigroups of Markov operators. *Kōdai Math. Sem. Rep.* 23 (1971), 121-126. (V. K. Balakrishnan) 43 #2563

Takahashi, Yasushi

The structure of the nucleon core by the Hartree approximation. *Nuclear Phys.* 26 (1961), 658-669. (Author's summary) 29 #4509

(with Umezawa, Hiroomi; Kamefuchi, Susumu) The mass levels and the broken symmetry in terms of inequivalent representations. *Ann. Physics* 26 (1964), 336-363. (Authors' summary) 31 #1053

(with Lurié, D.) Normalization of wave functions and wave-function renormalization constants. *Nuovo Cimento A* (10) 40 (1965), 295-298. (F. Rohrlich) 33 #1030

(with Lurié, D.; Macfarlane, A. J.) Normalization of Bethe-Salpeter wave functions. *Phys. Rev.* (2) 140 (1965), B1091-B1099. (Noboru Nakanishi) 32 #6958

(with Lurié, D.) Intrinsic parity of mesons as quark-antiquark composites. *Phys. Rev. Lett.* 14 (1965), 653-654. (E. C. G. Sudarshan) 31 #4456

A Hamiltonian formalism with a linear supplementary condition and its application to field theory and many-body system. *Physica* 31 (1965), 205-221. (G. R. Allcock) 32 #3693

Some covariant identities and the generators of the Poincaré group. *Proc. Roy. Irish Acad. Sect. A* 71, 1-11 (1971). (Author's summary) 43 #8303

Takahashi, Yukio

Markov chains with random transition matrices. *Kōdai Math. Sem. Rep.* 21 (1969), 426-447. (W. E. Pruitt) 42 #1220

Queueing systems with gates. *J. Operations Res. Soc. Japan* 14 (1971), 103-126. (D. J. Daley) 44 #4828

Takahashi Orozco, Alonso. See Takahashi, Alonso.

Takahasi, Hidetosi

Electronic computers and number theory. (Japanese) *Sûgaku* 15 (1963), 1-6. (S. Ikehara) 29 #1767

Tables of Lorentz field for cubic lattice. *J. Phys. Soc. Japan* 19 (1964), 499-503. (Author's summary) 29 #1975

Basic concepts around automata. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 527-530. 42 #4337

(with Mori, Masatake) Estimation of errors in the numerical quadrature of analytic functions. *Applicable Anal.* 1 (1971), *no.* 3, 201-229. (Editors) 44 #6155

Takahasi, Ken-iti. See Takahashi, Ken-ichi.

Takahasi, Koiti

Model for the estimation of the size of a population by using capture-recapture method. *Ann. Inst. Statist. Math.* 12 (1960/61), 237-248. (V. S. Huzurbazar) 31 #1740

Note on the multivariate Burr's distribution. *Ann. Inst. Statist. Math.* 17 (1965), 257-260. 31 #5294

(with Shimura, Toshio) On the moments and the examples of the distribution of the time to extinction in the Galton-Watson process. (Japanese. English summary) *Proc. Inst. Statist. Math.* 15 (1967), 161-166. 37 #2329

(with Wakimoto, Kazumasa) On unbiased estimates of the population mean based on the sample stratified by means of ordering. *Ann. Inst. Statist. Math.* 20 (1968), 1-31. (C. Hayashi) 37 #3727

(with Wakimoto, Kazumasa) Mean estimate by ordered layer sampling. (Japanese) *Bull. Japan Statist. Soc.* 1967, 61-65 (1968). (C. Hayashi) 41 #7815

Estimation of several characteristics of distributions of order statistics. *Ann. Inst. Statist. Math.* 22 (1970), 403-412. (H. L. harter) 43 #1359

Some nonparametric consistent estimates from censored samples. *Ann. Inst. Statist. Math.* 22 (1970), 413-419. 43 #1351

Takahasi, Mitiko

(with Kimura, Tosihusa) Sur les opérateurs différentiels ordinaires linéaires formellement autoadjoints. I. *Funkcial. Ekvac.* 7 (1965), 35-90. (R. C. Gilbert) 32 #1399

On a non selfadjoint ordinary differential operator. *Funkcial. Ekvac.* 8 (1966), 109-141. (R. C. Gilbert) 34 #6204

Takahasi, Sin-ei

A note on the theorem of Stone-Weierstrass. *Bull. Fac. Sci. Ibaraki Univ. Ser. A No.* 2-1, 5-7 (1969). (T. W. Palmer) 40 #7830

A note on the Peter-Weyl theorem. *Bull. Fac. Sci. Ibaraki Univ. Ser. A No.* 2-2, 27-29 (1970). (L. Corwin) 41 #7023

On Urysohn's lemma for spectrums of C^*-algebras. *Bull. Fac. Sci. Ibaraki Univ. Ser. A No.* 3, 5-11 (1971). (W. Wils) 44 #5793

Takaišvili, K. G.

An application of the Laplace transform to the solution of a certain class of integro-differential equations. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 123-126. (Şt. I. Gheorghiţă) 42 #6563

Takamatsu, Kichiro

On an automorphism of an *O-space. *Sci. Rep. Niigata Univ. Ser. A No.* 2 (1965), 40-44. (Y. Tashiro) 36 #7090

(with Mizusawa, Hideo) On infinitesimal CL-transformations of compact normal contact metric spaces. *Sci. Rep. Niigata Univ. Ser. A No.* 3 (1966), 31-39. (F. Brickell) 34 #756

On harmonic tensor and C-analytic tensor in compact K-contact Riemannian manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 3 (1966), 41-49. (F. Brickell) 34 #757

(with Sawaki, Sumio) On extended almost analytic vectors and tensors in almost complex manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 4 (1967), 17-29. (S. Kobayashi) 35 #6108

(with Sawaki, Sumio) A characterization of almost analytic tensor fields in almost complex manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 5 (1967), 1-7. (K. Yano) 41 #946

On a decomposition of an extended contravariant almost analytic vector in a compact K-space with constant scalar curvature. *Kōdai Math. Sem. Rep.* 20 (1968), 186-197. (F. Brickell) 37 #4758

Some properties of 6-dimensional K-spaces. *Kōdai Math. Sem. Rep.* 23 (1971), 215-232. (T. Ohkubo) 44 #4703

Takamatsu, Shunro

On the come-and-stay interarrival time in a modified queueing system $M/G/1$. *Ann. Inst. Statist. Math.* 15 (1963), 73-78. (L. Takács) 30 #2569

On the come-and-stay interarrival time in a modified queueing system $GI/M/1$. *Ann. Inst. Statist. Math.* 15 (1963), 207-213. (L. Takács) 30 #2570

Queueing processes with accumulated service. *Ann. Inst. Statist. Math.* 22 (1970), 349-379. (L. Takács) 43 #8161

Takamatsu, Takeichiro

(with Hashimoto, Iori; Shimada, Teruaki) A steady state optimization problem of a combined distributed parameter system from the viewpoint of sensitivity analysis. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 225-234. (Authors' summary) 42 #4280

(with Sayama, Hayatoshi; Oh-i, Ko) Optimal design of extraction processes by second-order convergence gradient methods. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 313-321. (Authors' summary) 42 #5431

(with Sayama, Hayatoshi; Oh-i, Ko) Some consideration on one dimensional search in gradient method. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 596-604. (Authors' summary) 42 #3992

Takami, Hideo

(with Keller, H. B.) Numerical studies of steady viscous flow about cylinders. *Numerical Solutions of Nonlinear Differential Equations (Proc. Adv. Sympos., Madison, Wis., 1966), pp.* 115-140. *John Wiley & Sons, Inc., New York,* 1966. (W. F. Ames) 34 #5371

Takanami, Itsuo

(with Honda, Namio) Analysis and synthesis of finite automata by transition matrices. *Electron. Commun. Japan* 51 (1968), *no.* 4, 128-136. (S. Huzino) 40 #7044

Takano, Kazuo

On Y. C. Wong's conjecture. *Tensor (N.S.)* 15 (1964), 175-180. (A. Fialkow) 29 #3999

On the existence of affine motion in a space with recurrent curvature. *Tensor (N.S.)* 17 (1966), 68-73. (Y.-C. Wong) 33 #1813a

On the existence of affine motion in a space with recurrent curvature. II. *Tensor (N.S.)* 17 (1966), 212-216. (Y.-C. Wong) 33 #1813b

Recurrent affine motion in $S\text{-}AK_n^*$ spaces. *Tensor (N.S.)* 17 (1966), 321-326. (Y.-C. Wong) 34 #3493

Decomposition of curvature tensor in a recurrent space. *Tensor (N.S.)* 18 (1967), 343-347. (T. Ohkubo) 35 #6084

A remark on $S\text{-}AK_N^*$ spaces of the first kind. *Tensor (N.S.)* 19 (1968), 137-140. (Y.-C. Wong) 36 #4476

A remark on $S\text{-}AK_N^*$ spaces of the first kind. II. *Tensor (N.S.)* 19 (1968), 288-290. (Y.-C. Wong) 38 #1631

On a space with bi-recurrent curvature. *Tensor (N.S.)* 22 (1971), 329-332. (Yung-Chow Wong) 44 #7465

Takano, Kyoichi

General solution of a nonlinear difference equation of Briot-Bouquet type. *Funkcial. Ekvac.* 13 (1970/71), 179-198. (D. A. Lutz) 44 #5640

Takano, Yoshiro

Theory of fields in Finsler spaces. I. *Progr. Theoret. Phys.* 40 (1968), 1159-1180. (H. D. Pande) 39 #1199

Takao, Kichiro

(with Hotta, Satohiko) Minimum impulse transfer between coplanar elliptical orbits whose axes are aligned. *Mem. Defense Acad. 5, no.* 4, 415-428 (1966). (Authors' summary) 33 #3496

Takaoka, Tadao

(with Mine, Hisashi) On the general solution of a state-characteristic equation of finite automata. *Electron. Commun. Japan* 52 (1969), *no.* 2, 148-156. (L. C. Eggan) 44 #6414

(with Mine, Hisashi) Evaluating the reliability of iterative relay circuits. *Electron. Commun. Japan* 52 (1969), *no.* 10, 152-159. (C. V. Srinivasan) 42 #5728

Takasaki, Tatsumi

Exercises on the "espaces bornologiques", and "espaces infratonnelés". II. (Japanese) *Bull. Fukuoka Gakugei Univ. III* 13 (1963), 1-10. (I. Namioka) 32 #352

Some sufficient conditions for the existence of a bilinear or Hermitian form $f(x,y)$ such that $f(x,x) = ||x||^2$ on a normal space. (Japanese) *Bull. Fukuoka Gakugei Univ. III* 14 (1964), 5-17. (I. G. Amemiya) 31 #5067

One property of a certain convex body of a vector space. (Japanese) *Bull. Fukuoka Gakugei Univ. Ed. III* 15 (1965), 5-11. (M. Nakamura) 43 #868

Takasu, Satoru

(See Systems and computer science, 38 #1976)

Takasu, Tsurusaburo

Non-connection method for linear connections in the large. *Yokohama Math. J.* 11 (1963), 57-91. 30 #536

A new theory of relativity under the non-locally extended Lorentz transformation group. *Proc. Japan Acad.* 40 (1964), 691-696. 31 #2052

Doubly extended geometries by non-connection methods. *Proc. Japan Acad.* 41 (1965), 869-874. (R. Drăgilă) 34 #3470

Duality in the linear connections in the large. II. *Tensor (N.S.)* 16 (1965), 60-65. (A. Kawaguchi) 30 #1472

A theory of doubly extended Lie transformation groups. *Yokohama Math. J.* 13 (1965), 31-64, 65-120. (Author's summary) 34 #7730

Non-connection methods for some connection geometries based on canonical equations of Hamiltonian types of II-geodesic curves. *Proc. Japan Acad.* 42 (1966), 539-544. (Y. Mutô) 34 #8355

Various Hamilton's canonical formalisms as non-connection methods for various connection geometries in the large. *Yokohama Math. J.* 16 (1968), 15-62. (Y. Mutô) 38 #3810 (E)

Various Hamilton's canonical formalisms as non-connection methods for various connection geometries in the large. II. *Yokohama Math. J.* 17 (1969), 99-130. (Y. Mutô) 41 #4425

Corrigenda to: "Various Hamilton's canonical formalisms as non-connection methods for various connection geometries in the large. I". *Yokohama Math. J.* 17 (1969), 131-132. (Editors) 41 #2596

Takata, Hitoshi

(with Tsuji, Setsuzo; Kamiya, Kenji) On the discrete-time nonlinear filter containing the rational expression of the observation error as the correction term. (Japanese. English summary) *Systems and Control* 15 (1971), 702-714. (Authors' summary) 44 #3731

Takatsuka, Teruo

Multivalent functions star-like in one direction. *Trans. Amer. Math. Soc.* 120 (1965), 72-82. (A. W. Goodman) 32 #206

The theory of multivalent functions. *Duke Math. J.* 33 (1966), 583-593. (M. Reade) 33 #7522

Takayama, Akira

(with El-Hodiri, Mohamed) Programming, Pareto optimum and the existence of competitive equilibria. *Metroecon.* 20 (1968), 1-10. (D. Hochstädter) 41 #6554

Takayama, T.

(with Judge, G. G.) Equilibrium among spatially separated markets: A reformulation. *Econometrica* 32 (1964), 510-524. (S. Ichimura) 30 #3765

(with Judge, G. G.) Inequality restrictions in regression analysis. *J. Amer. Statist. Assoc.* 61 (1966), 166-181. (G. Tintner) 33 #1928

Takayanagi, Kazuo

The production of rotational and vibrational transitions in encounters between molecules. *Advances in Atomic and Molecular Physics, Vol.* 1, *pp.* 149-194. *Academic Press, New York,* 1965. 31 #4493

Takeda, Gyo

(See High energy physics, 33 #5313b)

Takeda, Hiroshi

(with Yokoyama, Ryuzo; Anayama, Takeshi) Liapunov function for pseudo time optimal control. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 181-190. (Authors' summary) 42 #4284

Takeda, Kazuaki

(with Takeda, Zirô) A certain series of multiplicatively orthogonal functions. *Tôhoku Math. J.* (2) 16 (1964), 34-59. (J. J. Price) 29 #5049

Takeda, Masaru

(with Kasai, Tamotsu; Shintani, Hiroshi) Four series of graphs derived from a full graph. *Bull. Univ. Osaka Prefecture Ser. A* 19 (1970), *no.* 2, 299-313. (D. R. Lick) 44 #2651

Takeda, Zirô

(with Takeda, Kazuaki) A certain series of multiplicatively orthogonal functions. *Tôhoku Math. J.* (2) 16 (1964), 34-59. (J. J. Price) 29 #5049

(with Furuta, Takayuki) A characterization of spectraloid operators and its generalization. *Proc. Japan Acad.* 43 (1967), 599-604. (C. R. Putnam) 36 #4355

Takemoto, Hideo

W^*-algebra with a non-separable cyclic representation. *Tôhoku Math. J.* (2) 20 (1968), 567-576. (S. Sakai) 39 #6096

On the homomorphism of von Neumann algebra. *Tôhoku Math. J.* (2) 21 (1969), 152-157. (S. S. Holland, Jr.) 40 #760 (E)

On the integral representation of some functional on a von Neumann algebra. *Tôhoku Math. J.* (2) 21 (1969), 237-248. (H. Halpern) 40 #761

A complement to: "On the homomorphism of von Neumann algebra". *Tôhoku Math. J.* (2) 22 (1970), 210-211. (S. S. Holland, Jr.) 42 #6628

Takemura, Yasusi

On Hausdorff's theorem. *Proc. Japan Acad.* 43 (1967), 28-30. (W. D. L. Appling) 35 #6783

(with Satô, Tokui) Sur les suites filtrantes de nombres. *Proc. Japan Acad.* 44 (1968), 141-143. (D. V. Thampuran) 37 #5334

Takenaga, Roy

On the evaluation of the incomplete gamma function. *Math. Comp.* 20 (1966), 606-610. 34 #3758

Takenaka, Y.

(with Yoshimura, Y.) Strain history effects in plastic deformation of metals. *Second-Order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa,* 1962), *pp.* 729-750. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (R. Hill) 31 #1831

Takenaka, Yoshiko

On the existence of a Hamiltonian path in a graph. *Information and Control* 13 (1968), 555-564. (F. Harary) 40 #7034

Graph theoretic concepts and the incidence matrix. *Information and Control* 17 (1970), 113-121. (Author's summary) 42 #7425

Takeno, Hyôitirô

The theory of spherically symmetric space-times. *Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ. No.* 3 (1963), vii + 287 *pp.* (J. Pachner (Zbl 119, 435)) 35 #2612

On the spintensor of Lanczos. *Tensor (N.S.)* 15 (1964), 103-119. (R. S. Mishra) 32 #1631

On geometric properties of some plane wave solutions in general relativity. V. *Tensor (N.S.)* 15 (1964), 233-242. (H. A. Buchdahl) 31 #2049

On geometric properties of some plane wave solutions in general relativity. VI. *Tensor (N.S.)* 16 (1965), 84-92. (A. Peres) 30 #1840

On the theory of spherically symmetric space-times. I. *Tensor (N.S.)* 16 (1965), 198-208. (S. Ide) 36 #4494

On the theory of spherically symmetric space-times. II. *Tensor (N.S.)* 16 (1965), 247-261. (S. Ide) 36 #4495

On the imbedding problem of spherically symmetric space-times. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 353-359. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (P. S. Florides) 35 #2613

The theory of spherically symmetric space-times. Revised edition. *Sci. Rep. Res. Inst. Theoret. Phys. Hiroshima Univ. No.* 5 (1966), vii + 303 *pp.* (Editors) 35 #7676

On the theory of spherically symmetric space-times. III. *Tensor (N.S.)* 17 (1966), 1-19. (S. Ide) 36 #4496

On the theory of spherically symmetric space-times. IV. *Tensor (N.S.)* 17 (1966), 56-67. (S. Ide) 36 #4497

(with Kitamura, Shin-ichi) On the theory of spherically symmetric space-times. V. *Tensor (N.S.)* 17 (1966), 190-204. (S. Ide) 36 #4498

(with Kitamura, Shin-ichi) On the theory of spherically symmetric space-times. VI. *Tensor (N.S.)* 17 (1966), 266-278. (S. Ide) 36 #4499

(with Kitamura, Shin-ichi) On the theory of spherically symmetric space-times. VII. *Tensor (N.S.)* 18 (1967), 77-89. (S. Ide) 36 #4500

(with Kitamura, Shin-ichi) Spherically symmetric space-times of *KS*-type. *Tensor (N.S.)* 18 (1967), 301-308. (T. K. Pan) 36 #3278

(with Kitamura, Shin-ichi) N-dual and PN-dual space-times. *Tensor (N.S.)* 19 (1968), 174-178. (A. G. Walker) 36 #7087

(with Kitamura, Shin-ichi) On the space-time admitting a parallel null vector field. *Tensor (N.S.)* 19 (1968), 207-216. (A. G. Walker) 36 #7396

* (with Kitamura, Shin-ichi) On the Einstein tensors of spherically symmetric space-times. RRK 69-13. *Research Institute for Theoretical Physics, Hiroshima University, Hiroshima,* 1969. 25 *pp.* (C. W. Kilmister) 41 #1359

* (with Kitamura, Shin-ichi) On the space-times of Hoffman and Peres. RRK 69-16. *Research Institute for Theoretical Physics, Hiroshima University, Hiroshima,* 1969. 14 *pp.* (C. W. Kilmister) 41 #5025

Concircular scalar fields in spherically symmetric space-times. I, II. *Tensor (N.S.)* 20 (1969), 167-176; *ibid. (N.S.)* 20 (1969), 185-196. (T. K. Pan) 40 #1126

Concircular scalar fields in spherically symmetric space-times. III. *Tensor (N.S.)* 20 (1969), 273-285. (T. K. Pan) 40 #6934

* On the n-recurrency of spherically symmetric space-times. I, II. RRK 70—5, 6. *Research Institute for Theoretical Physics, Hiroshima University, Takehara, Hiroshima,* 1970. *Vol. I:* 10 *pp.*; *Vol. II:* 13 *pp.* (J. D. Zund) 42 5603

* On the n-recurrency of spherically symmetric space-times. III. RRK 70-9. *Research Institute for Theoretical Physics, Hiroshima University, Takehara, Hiroshima,* 1970. 14 *pp.* (J. D. Zund) 43 #1095

* On n-recurrent H space-times. RRK 70-11. *Research Institute for Theoretical Physics, Hiroshima University, Takehara, Hiroshima,* 1970. 9 *pp.* (J. D. Zund) 43 #1096

(with Kitamura, Shin-ichi) On H space-times. *Tensor (N.S.)* 21 (1970), 83-88. (S. Ide) 40 #8428

(with Kitamura, Shin-ichi) On some global properties of spherically symmetric space-times. *Tensor (N.S.)* 21 (1970), 89-94. (J. D. Zund) 41 #970

On the invariant classification of conformally flat space-times. *Tensor (N.S.)* 21 (1970), 207-223. (A. H. Taub) 41 #5026

(with Kitamura, Shin-ichi) On the space-times of Hoffman and Peres. *Tensor (N.S.)* 21 (1970), 359-366. (J. Blackman) 42 #2777

* (with Kitamura, Shin-ichi) Some studies on spherically symmetric space-times. RRK 71-1. *Research Institute for Theoretical Physics, Hiroshima University, Takehara, Hiroshima,* 1971. 14 *pp.* (S. Ide) 44 #7941

On the n-recurrency of spherically symmetric space-times. I, II. *Tensor (N.S.)* 22 (1971), 223-228; *ibid. (N.S.)* 22 (1971), 299-314. (Editors) 44 #7940

Takenouchi, Osamu

On type classification of factors constructed as infinite tensor products. *Publ. Res. Inst. Math. Sci. Ser. A* (1968/69), 467-482. (M. Takesaki) 40 #762

Takens, Floris

Isolated critical points of C^∞ and C^ω functions. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 238-243. (P. L. Antonelli) 35 #2300

The minimal number of critical points of a function on a compact manifold and the Lusternik-Schnirelman category. *Invent. Math.* 6 (1968), 197-244. (M. Klingmann) 38 #5235

On the differential forms, representing the Chern and Euler classes. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 693-702. (C. B. Allendoerfer) 39 #7625

The Lusternik-Schnirelman categories of a product space. *Compositio Math.* 22 (1970), 175-180. (C. W. Patty) 44 #7549

Hamiltonian systems: Generic properties of closed orbits and local perturbations. *Math. Ann.* 188 (1970), 304-312. (R. Abraham) 44 #1894

} On Zeeman's tolerance stability conjecture. *Manifolds—Amsterdam* 1970 *(Proc. Nuffic Summer School), pp.* 209-219. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin,* 1971. (S. Ahmad) 43 #5511

(with White, James) Morse theory of double normals of immersions. *Indiana Univ. Math. J.* 21 (1971/72), 11-17. (J. Franks) 44 #7575

Takeo, Fujio

On triangulated graphs. II. *Bull. Fukuoka Gakugei Univ. III* 11 (1961), 17-31. (W. T. Tutte) 34 #4164a

On triangulated graphs. III. *Bull. Fukuoka Gakugei Univ. III* 13 (1963), 11-21. (W. T. Tutte) 34 #4164b

On triangulated graphs. IV. *Bull. Fukuoka Gakugei Univ. III* 14 (1964), 19-30. (W. T. Tutte) 34 #4164c (E)

Errata of: "On triangulated graph. IV". *Bull. Fukuoka Gakugei Univ. Ed. III* 15 (1965), 23. (Editors) 42 #7562

Takesada, Tositaka

(with Nakamura, Masahiro; Umegaki, H.) A remark on the expectations of operator algebras. *Kōdai Math. Sem. Rep.* 12 (1960), 82-90. (K. Krickeberg (Zbl 102, 108)) 40 #3325

On the unitary equivalence among the components of decompositions of representations of involutive Banach algebras and the associated diagonal algebras. *Tôhoku Math. J.* (2) 15 (1963), 365-393. (B. Yood) 29 #1548

On the cross-norm of the direct product of C^*-algebras. *Tôhoku Math. J.* (2) 16 (1964), 111-122. (J. Ernest) 29 #2668

A complement to "On the unitary equivalence among the components of decompositions of representations of involutive Banach algebras and the associated diagonal algebras". *Tôhoku Math. J.* (2) 16 (1964), 226-227. (B. Yood) 29 #6332

On duality in the theory of representations of operator rings. (Japanese) *Sûgaku* 18 (1966/67), 208-215. (S. Sakai) 36 #6954

(with Okayasu, Takateru) Dual spaces of tensor products of C^*-algebras. *Tôhoku Math. J.* (2) 18 (1966), 332-337. (B. R. Gelbaum) 34 #3359

Covariant representations of C^*-algebras and their locally compact automorphism groups. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Sendai,* 1967*) (Japanese), pp.* 77-84. *Math. Inst., Tôhoku Univ., Sendai,* 1967. (M. Nakamura) 43 #2529

Covariant representations of C^*-algebras and their locally compact automorphism groups. *Acta Math.* 119 (1967), 273-303. (J. Ernest) 37 #774

A duality in the representation theory of C^*-algebras. *Ann. of Math.* (2) 85 (1967), 370-382. (J. Ernest) 35 #755

A characterization of group algebras as a converse of Tannaka-Stinespring-Tatsuuma duality theorem. *Amer. J. Math.* 91 (1969), 529-564. (G. A. Reid) 39 #5752

A generalized commutation relation for the regular representation. *Bull. Soc. Math. France* 97 (1969), 289-297. (G. A. Reid) 40 #7831

Remarks on the reduction theory of von Neumann algebras. *Proc. Amer. Math. Soc.* 20 (1969), 434-438. (S. Sakai) 39 #791

* Tomita's theory of modular Hilbert algebras and its applications. Lecture Notes in Mathematics, Vol. 128. *Springer-Verlag, Berlin-New York,* 1970. ii + 123 *pp.* (S. Sakai) 42 #5061

Disjointness of the KMS-states of different temperatures. *Comm. Math. Phys.* 17 (1970), 33-41. (M. E. Mayer) 42 #4150

(with Herman, Richard H.) States and automorphism groups of operator algebras. *Comm. Math. Phys.* 19 (1970), 142-160. (W. Wils) 42 #5060

Algebraic equivalence of locally normal representations. *Pacific J. Math.* 34 (1970), 807-816. (Z. Takeda) 42 #5062

(with Tatsuuma, Nobuhiko) Duality and subgroups. *Ann. of Math.* (2) 93 (1971), 344-364. (R. Goodman) 43 #7557

A liminal crossed product of a uniformly hyperfinite C^*-algebra by a compact Abelian automorphism group. *J. Functional Analysis* 7 (1971), 140-146. (H. Halpern) 43 #941

The quotient algebra of a finite von Neumann algebra. *Pacific J. Math.* 36 (1971), 827-831. (J. W. Bunce) 43 #6739

Takeshita, Akira

On the reproductive property of the 2-dimensional Navier-Stokes equations. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 297-311 (1970). (D. E. Edmunds) 41 #8850

Taketa, Kiyosi

Über die zweistufigen metabelschen Gruppen mit der gegebenen Kommutatorgruppe, insbesondere solche p-Gruppen. I. *Math. Japon.* 7 (1962), 59-78. (J. E. Adney) 30 #165

Über die monomialen Gruppen. I, II, III. *Proc. Fac. Sci. Tokai Univ.* 1 (1966), *no.* 1-2, 1-14; *ibid.* 2 (1967), *no.* 1-2, 1-12; *ibid.* 3 (1968), *no.* 1-2, 1-23. (L. Dornhoff) 42 #6096

Über die Charaktere einer Substitutionsgruppe von endlicher Ordnung. *J. Reine Angew. Math.* 241 (1970), 15-26. (A. Kerber) 42 #393

Takeuchi, Akira

Domaines pseudoconvexes infinis et la métrique riemannienne dans un espace projectif. *J. Math. Soc. Japan* 16 (1964), 159-181. (H. Cartan) 30 #3997

Domaines pseudoconvexes sur les variétés kählériennes. *J. Math. Kyoto Univ.* 6 (1967), 323-357. (Y. Mutō) 36 #426

Une remarque sur le deuxième mémoire de M. K. Oka. *J. Math. Kyoto Univ.* 9 (1969), 1-4. (J. Kajiwara) 40 #5894

Takeuchi, Hitoshi

(with Alsop, L. E.) Comparison of theoretical and observational expressions for elastic strains of the earth. *Bull. Seismol. Soc. Amer.* 55 (1965), 153-163. (I. M. Longman) 31 #2056

* Theory of the earth's interior. *Blaisdell Publishing Co. [Ginn and Co.], Waltham, Mass.-Toronto, Ont.-London,* 1966. ix + 131 *pp.* (G. MacDonald) 34 #2227

Takeuchi, Junji

On the sample paths of the symmetric stable processes in spaces. *J. Math. Soc. Japan* 16 (1964), 109-127. (F. L. Spitzer) 29 #6537

A local asymptotic law for the transient stable process. *Proc. Japan Acad.* 40 (1964), 141-144. (F. L. Spitzer) 29 #6538

(with Watanabe, Shinzô) Spitzer's test for the Cauchy process on the line. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 204-210 (1964). (F. L. Spitzer) 30 #2545

Moments of the last exit times. *Proc. Japan Acad.* 43 (1967), 355-360. (S. C. Port) 36 #6011

On the number of returns for a linear diffusion. *Comment. Math. Univ. St. Paul.* 17 (1968), 11-16. (C. Stone) 40 #932

Takeuchi, Kei

On some properties of error area in the fractile graph method. *Sankhyā Ser. A* 23 (1961), 65-78. (S. Malmquist) 31 #4106a

Theory of statistical estimates. I. (Japanese) *Sûgaku* 14 (1962/63), 193-209. (T. Kawata) 29 #690; erratum, 41, p. 1961

Statistical estimation. II. (Japanese) *Sûgaku* 16 (1965), 139-149. (T. Kawata) 35 #6235; erratum, 41, p. 1962

Some remarks on general theory for unbiased estimation of a real parameter of a finite population. *Japan. J. Math.* 35 (1966), 73-84. (M. Atiqullah) 33 #8081

(with Manabe, Ryutaro) Quadratic programming. (Japanese) *Keiei-Kagaku* 10 (1966/67), 117-140. (S. Huzino) 35 #7699

A note on the test for the location parameter of an exponential distribution. *Ann. Math. Statist.* 40 (1969), 1838-1839. (R. V. Hogg) 41 #4726

Asymptotically efficient tests for location: Nonparametric and asymptotically nonparametric. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969*), pp.* 283-296. *Cambridge Univ. Press, London,* 1970. (J. Sethuraman) 44 #3418

Takeuchi, Kensuke

On Frattini subgroups. *TRU Math.* 4 (1968), 10-13. (R. M. Bryant) 42 #7783

The word problem for free distributive lattices. *J. Math. Soc. Japan* 21 (1969), 330-333. (R. P. Dilworth) 39 #4066

Takeuchi, Kisao

A remark on the Riemann-Roch-Weil theorem. *J. Fac. Sci. Univ. Tokyo Sect. I* 12, 235-245 (1966). (K.-B. Gundlach) 37 #157

On a Fuchsian group commensurable with the unimodular group. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 107-109. (B. Maskit) 38 #3230

On some discrete subgroups of $SL_2(R)$. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 97-100. (J. Lehner) 41 #6781

Fuchsian groups contained in $SL_2(\mathbf{Q})$. *J. Math. Soc. Japan* 23 (1971), 82-94. (C. Earle) 42 #6225

Takeuchi, M.

A remark on the model of Bradley and Terry in paired comparisons. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 9 (1962), 198. 31 #5298

Takeuchi, Mamoru

A generalization of Stark's formula. *Bull. Fac. Sci. Ibaraki Univ. Ser. A No.* 3, 39-46 (1971). (T. M. Apostol) 44 #5283

Takeuchi, Masaru

On the fundamental group and the group of isometries of a symmetric space. *J. Fac. Sci. Univ. Tokyo Sect. I* 10, 88-123 (1964). (J. A. Wolf) 30 #1217

A remark on the theorem of Peterson-Adachi. *J. Fac. Sci. Univ. Tokyo Sect. I* 10, 124-128 (1964). (F. P. Peterson) 29 #1645

Cell decompositions and Morse equalities on certain symmetric spaces. *J. Fac. Sci. Univ. Tokyo Sect. I* 12, 81-192 (1965). (A. Korányi) 35 #7350

Cell decompositions and Morse equalities on certain symmetric spaces. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 137-146. *Nippon Hyoronsha, Tokyo,* 1966. (W. Klingenberg) 38 #1699

On orbits in a compact hermitian symmetric space. *Amer. J. Math.* 90 (1968), 657-680. (J. A. Wolf) 39 #7133

(with Kobayashi, Shoshichi) Minimal imbeddings of *R*-spaces. *J. Differential Geometry* 2 (1968), 203-215. (W. Klingenberg) 39 #366

Nice functions on symmetric spaces. *Osaka J. Math.* 6 (1969), 283-289. (A. Morimoto) 42 #8518

On infinitesimal affine automorphisms of Siegel domains. *Proc. Japan Acad.* 45 (1969), 590-594. (A. Korányi) 42 #430

On the fundamental group of a simple Lie group. *Nagoya Math. J.* 40 (1970), 147-159. (S. Murakami) 43 #6362

Takeuchi, Mitsuhiro

A simple proof of Gabriel and Popesco's theorem. *J. Algebra* 18 (1971), 112-113. (D. C. Newell) 43 #2048

Takeuchi, Yasuji

On Galois extensions over commutative rings. *Osaka J. Math.* 2 (1965), 137-145. (A. Rosenberg) 32 #129

Infinite outer Galois theory of non commutative rings. *Osaka J. Math.* 3 (1966), 195-200. (A. Rosenberg) 35 #1639

On quasi-Galois extensions of commutative rings. *Rev. Un. Mat. Argentina* 24 (1968/69), 169-175. (R. E. MacRae) 42 #256

A note on Galois covering. *Osaka J. Math.* 6 (1969), 321-327. (H. F. Kreimer (Zbl 163, 288)) 42 #1867

Takeuchi, Yu

A criterion on the convergence of the improper integral. (Spanish) *Rev. Mat. Elem.* 8 (1966), 1-21. (Editors) 33 #4193

Note on a nonlinear operator in a Hilbert space. (Spanish. English summary) *Rev. Mat. Elem.* 8 (1966), *fasc.* 3-4, 1-9. (J. F Smith) 35 #3502

Differentiability of functions which vanish on the irrational (Spanish. English summary) *Rev. Mat. Elem.* 8 (1966), *fasc.* 3-4, 10-18. (D. W. Solomon) 36 #320

Asymptotic expansion of the function $\sum_{k=0}^{\infty}(-1)^k \cdot x^k/(k!)^3$. (Spanish) *Rev. Colombiana Mat.* 2 (1968), 12-20. (N. Onuchic) 38 #6134

Stability of the function $\sum_{n=0}^{\infty}(-i)^n[x^n/(n!)^\lambda]$. (Spanish) *Rev. Colombiana Mat.* 3 (1969), 25-42. (A. Erdélyi) 40 #2937

A representation of the Hankel transform. (Spanish) *Rev. Colombiana Mat.* 4 (1970), 51-67. (G. Doetsch) 43 #3749

Takeuti, Gaisi

(with Maehara, Shôji) A formal system of first-order predicate calculus with infinitely long expressions. *J. Math. Soc. Japan* 13 (1961), 357-370. (K. Ono) 29 #2178

On the weak definability in set theory. *Proc. Japan Acad.* 38 (1962), 43-46. (J. R. Shoenfield) 29 #8

Recursive functions and arithmetical functions of ordinal numbers. *Logic, Methodology and Philos. Sci. (Proc.* 1964 *Internat. Congr.), pp.* 179-196. *North-Holland, Amsterdam,* 1965. (S. Feferman 35 #53

Transcendence of cardinals. *J. Symbolic Logic* 30 (1965), 1-7. (L. N. Gál) 33 #2529

A formalization of the theory of ordinal numbers. *J. Symbolic Logic* 30 (1965), 295-317. (L. N. Gál) 33 #5467

Consistency proofs of subsystems of classical analysis. *Ann. of Math.* (2) 86 (1967), 299-348. (G. Kreisel) 36 #2492

(with Yasugi, M.) Reflection principles of subsystems of analysis. *Contributions to Math. Logic (Colloquium, Hannover,* 1966*), pp.* 255-273. *North-Holland, Amsterdam,* 1968. (G. Kreisel) 39 #3970

Formalization principle. *Logic, Methodology and Philos. Sci. III (Proc. Third Internat. Congr., Amsterdam,* 1967*), pp.* 105-118. *North-Holland, Amsterdam,* 1968. (G. Kreisel) 40 #5441

The Π_1^1-comprehension schema and ω-rules. *Proceedings of the Summer School in Logic (Leeds,* 1967*), pp.* 303-331. *Springer, Berlin,* 1968. (K. Schütte) 40 #7087

The universe of set theory. *Foundations of Mathematics (Symposium Commemorating Kurt Gödel, Columbus, Ohio,* 1966*), pp.* 74-128. *Springer, New York,* 1969. (J. R. Shoenfield) 40 #5440

A relativization of axioms of strong infinity to ω_1. *Ann. Japan Assoc. Philos. Sci.* 3, 191-204 (1970). (T. Jech) 43 #6083

Takeuti, Kei

Note on convex programming. (Japanese) *Keiei-Kagaku* 8 (1965), 155-162. (S. Ichimura) 33 #7134

Takeyuki, Hida

Harmonic analysis on the space of generalized functions. (Russian summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 119-124. (J. R. Blum) 43 #4086

Taki, Iichi

(with Kasai, Tamotsu; Kusaka, Hiroji; Yoneda, Syojiro) Various series of incomplete graphs derived from a complete graph and general formulas for the total number of their trees. *Bull. Univ. Osaka Prefecture Ser. A* 15 (1966), *no.* 1, 71-84. (W. H. Kim) 34 #7410

(with Kasai, Tamotsu; Matsui, Kunio; Kusaka, Hiroji; Yoneda, Syojiro) A method for the expansion of tree determinants in incomplete graphs and the expressions of their expanded formulas by the continuants. *Bull. Univ. Osaka Prefecture Ser. A* 15 (1966), *no.* 1, 85-95. (W. H. Kim) 34 #7411

(with Tanaka, Eiichi; Kasai, Tamotsu) Self-learning of finite state language by machines. *Electron. Commun. Japan* 52 (1969), *no.* 4, 115-122. (D. Vaida) 41 #9674

Taki, Yasuo

(with Miyakawa, Hiroshi; Hatori, Mitsutoshi; Namba, Seiichi) Even-shift orthogonal sequences. *IEEE Trans. Information Theory* IT-15 (1969), 295-300. (Authors' summary) 40 #8495

Takiff, S. J.

Rings of invariant polynomials for a class of Lie algebras. *Trans. Amer. Math. Soc.* 160 (1971), 249-262. (E. M. Luks) 43 #7553

Takijima, Kunio

The regularity of holomorphic mappings between analytic spaces. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 184-192 (1969). (H. Kerner) 41 #3816

Some properties on analytic spaces. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 250-254 (1970). (M. Herrera) 42 #7946

Takimoto, Noboru

Excitation of density waves in a condensed boson system. *Progr. Theoret. Phys.* 31 (1964), 399-411. (R. Kubo) 29 #3189 (with Ninham, Barry W.) Theory of zero sound in a nearly perfect Boltzmann gas. *Progr. Theoret. Phys.* 32 (1964), 8-28. (H. L. Frisch) 31 #5608

Taksar, M. I.

A certain property of a sequence of events. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 531-534. (D. V. Thampuran) 38 #6639

Takuchi, Hiraku. See Takeuchi, Kei.

Tal′, A. A.

* (with Aĭzerman, M. A.; Gusev, L. A.; Rozonoèr, L. I.; Smirnova, I. M.) Логика. Автоматы. Алгоритмы. (Russian) [Logic, automata and algorithms] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1963. 556 *pp.* (F. Dejean) 29 #5690

Questionnaire language and abstract design of minimal sequential machines. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 946-962. (Author's summary) 29 #3324

(with Gusev, L. A.) On the possible construction of algorithms for the abstract simulation of sequential machines in a questionnaire language. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 510-520. (F. Dejean) 30 #5851

* (with Aĭzerman, M. A.; Gusev, L. A.; Rozonoèr, L. I.; Smirnova, I. M.) Logik—Automaten—Algorithmen. Aus dem Russischen übersetzt von Rudolf Herschel. *R. Oldenbourg Verlag, Munich-Vienna,* 1967. x + 431 *pp.* (Editors) 35 #1411

* (with Aĭzerman, M. A.; Gusev, Leonid A.; Rozonoèr, L. I.; Smirnova, Irina M.) Logic, automata, and algorithms. Translated from the Russian by Scripta Technica, Inc. Translation editor George M. Kranc. Mathematics in Science and Engineering, Vol. 79. *Academic Press, New York-London,* 1971. xii + 433 *pp.* (Editors) 43 #3044

Tal, Abraham

Eigenfunctions for a class of nonlinear differential equations. *J. Differential Equations* 3 (1967), 112-134. (C. R. Putnam) 34 #1605

On monotone decomposable operators. *J. Assoc. Comput. Mach.* 16 (1969), 507-510. (Author's summary) 39 #2307

Talabă, C.

On congruences of Bianchi. (Romanian. Russian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 1-2, 85-88. (P. Vincensini) 35 #7230

Talacko, J. V.

Natural computational method of two-person zero-sum games. *Trabajos Estadíst.* 14 (1963), 17-60; *ibid.* 14 (1963), 159-162. (M. Dresher) 31 #5706

(with Kriz, Thomas A.) Equivalence of the maximum likelihood estimator to a minimum entropy estimator. *Trabajos Estadíst.* 19 (1968), 55-65. (H. Körezlioğlu) 38 #6698

(with Kriz, Thomas A.; Ishii, T. K.) Statistical properties of boolean variables generated by a class of binary arithmetic processes. *Trabajos Estadíst.* 20 (1969), 129-144. (D. V. Lindley) 42 #1372

Talalian, A. A. See Talaljan, A. A.

Talaljan, A. A.

Complete systems of unconditional convergence in the weak sense. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 713-720. (T. W. Gamelin) 29 #2593

(with Arutjunjan, F. G.) Uniqueness of series in Haar and Walsh systems. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1391-1408. (A. Peyerimhoff) 30 #2282

Rearranged trigonometrical systems which are systems of convergence in the weak sense. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 620-638. (M. Tomić) 29 #411

(with Arutjunjan, F. G.) On the convergence to $+\infty$ of the Haar system. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 240-247. (M. Tomić) 30 #4116

Coefficients of orthogonal zero-series. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 1 (1966), *no.* 1, 35-56. (Author's summary) 33 #3040

(with Osipov, R. I.) The convergence of orthogonal series to $+\infty$. (Russian) *Mat. Zametki* 2 (1967), 483-494. (D. P. Gupta) 36 #4251

Systems of functions whose series represent in the metric $L_p[0, 1]$ functions of the space $L_q[0, 1]$, $1 \leq p \leq q$. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 4-5, 327-357. (A. J. Lazar) 42 #2293

Systems with respect to which series represent arbitrary measurable functions. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 39-51. (S. Verblunsky) 37 #4469

Systems with respect to which series represent functions of the classes $L_p[0, 1]$, $p \geqq 1$. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 425-445. (K. Karták) 39 #4568

The existence of null series in certain systems of functions. (Russian) *Mat. Zametki* 5 (1969), 3-12. (A. Alexiewicz) 40 #591

The representation of functions in the classes $L_p[0, 1]$, $0 < p < 1$, by orthogonal series. (Russian) *Acta Math. Acad. Sci. Hungar.* 21 (1970), 1-9. (K. Karták) 41 #4115

(with Ovsepjan, R. I.) The convergence of orthogonal series to $+\infty$. (Russian) *Mat. Zametki* 8 (1970), 129-136. (J. Peetre) 43 #3726

Talaljan, F. A.

Absolute and unconditional convergence. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 2, 109-137. (O. L. Stanaitis) 42 #3459

Limit functions of functional series. (Russian) *Mat. Zametki* 10 (1971), 25-32. (T. Šalát) 44 #5646

Talalyan, A. A. See Talaljan, A. A.

Talamanca, Alessandro Figà. See Figà-Talamanca, Alessandro.

Talanov, V. A.

(with Glebskiĭ, Ju. V.) Certain definitions for the description of systems that change with respect to time. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 11 (1968), 1730-1736. (V. Polák) 43 #8403

(with Priluckiĭ, M. H.) A certain mathematical model of a production process. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 12 (1969), 433-437. (I. V. Romanovskiĭ) 44 #6316

Talantova, N. V.

On nullconjugate transformations of a biaxial space of parabolic type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 152-171. (H. W. Guggenheimer) 32 #2426

A classification of the subgroups of the group of motions of a biaxial space of parabolic type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 99-114. *(errata insert)* (A. Širokov (RŽMat 1969 #8 A459)) 42 #5153

Talbot, A.

On a class of Tchebysheffian approximation problems solvable algebraically. *Proc. Cambridge Philos. Soc.* 58 (1962), 244-267. (R. Campbell) 29 #2580

The Tchebysheffian approximation of one rational function by another. *Proc. Cambridge Philos. Soc.* 60 (1964), 877-890. (R. Campbell) 32 #8005

Topological analysis of general linear networks. *IEEE Trans. Circuit Theory* CT-12 (1965), 170-180. (W. K. Chen) 42 #5730

Some theorems on positive functions. *IEEE Trans. Circuit Theory* CT-12 (1965), 607-608. (Editors) 41 #2021

Topological analysis for active networks. *IEEE Trans. Circuit Theory* CT-13 (1966), 111-112. (W. K. Chen) 42 #7426

(See also Approximation theory, 41 #8879)

Talbot, C. J.

Newman-Penrose approach to twisting degenerate metrics. *Comm. Math. Phys.* 13 (1969), 45-61. (F. A. E. Pirani) 39 #7919

Talbot, Thomas D.

(with Loscalzo, Frank R.) Spline function approximations for solutions of ordinary differential equations. *Bull. Amer. Math. Soc.* 73 (1967), 438-442. (J. R. Rice) 35 #1218

(with Loscalzo, Frank R.) Spline function approximations for solutions of ordinary differential equations. *SIAM J. Numer. Anal.* 4 (1967), 433-445. (J. T. Scheick) 36 #4808

Taldykin, A. T.

Eigenelements and adjoint elements of linear operators. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 165-169. (A. Brown) 29 #3891

Talenti, Giorgio

Intorno alle classi funzionali di Gevrey. (English summary) *Ann. Mat. Pura Appl.* (4) 63 (1963), 151-173. (J. Horváth) 29 #6163

Studio di una equazione integrodifferenziale non lineare. *Matematiche (Catania)* 18 (1963), 129-138. (J. Horváth) 29 #6165

Un problema di Cauchy. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 165-186. (J. Horváth) 29 #6164

Sur le problème de Cauchy pour les équations aux dérivées partielles. *C. R. Acad. Sci. Paris* 259 (1964), 1932-1933. (J. Horváth) 30 #355

Sul problema di Cauchy per le equazioni a derivate parziali. *Ann. Mat. Pura Appl.* (4) 67 (1965), 365-394. (L. Cesari) 31 #4971

Sopra una classe di equazioni ellittiche a coefficienti misurabili. *Ann. Mat. Pura Appl.* (4) 69 (1965), 285-304. (G. Geymonat) 34 #1698

Osservazioni sulla nota: Un problema di Cauchy. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 179-184. (J. L. Lions) 31 #3728

Sugli invarianti della matrice hessiana. *Boll. Un. Mat. Ital.* (3) 20 (1965), 220-226. (J. A. Todd) 34 #2603

Sui problemi di Cauchy. *Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi, 1965), pp.* 129-132. *Edizioni Cremonese, Rome,* 1966. (R. Carroll) 34 #1684

Soluzioni a simmetria assiale di equazioni ellittiche. *Ann. Mat. Pura Appl.* (4) 73 (1966), 127-158. (P. Grisvard) 35 #1933

Una diseguaglianza integrale. *Boll. Un. Mat. Ital.* (3) 21 (1966), 25-34. (A. E. Danese) 33 #4220

Equazioni lineari ellittiche in due variabili. *Matematiche (Catania)* 21 (1966), 339-376. (R. Finn) 34 #4681

Sopra una diseguaglianza integrale. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 167-188. (A. E. Danese) 36 #1600

Problemi di derivata obliqua per equazioni ellittiche in due variabili. *Boll. Un. Mat. Ital.* (3) 22 (1967), 505-526. (J. H. Bramble) 37 #6605 (with Bertero, M.; Viano, G. A.) Scattering and bound state solutions for a class of nonlocal potentials (*s*-wave). *Comm. Math. Phys.* 6 (1967), 128-150. (D. B. Fairlie) 36 #1158

Osservazioni sopra un'equazione integrodifferenziale di Schrödinger. *Rend. Sem. Mat. Univ. Padova* 38 (1967), 305-330. (N. D. Sengupta) 36 #4876

Osservazioni sopra un'equazione integrodifferenziale di Schrödinger. *Univ. Genova Pubbl. Ist. Mat. No.* 170 (1967/68), 26 *pp.* (Editors) 37 #1944

Sopra una diseguaglianza integrale. *Univ. Genova Pubbl. Ist. Mat. No.* 171 (1967/68), 22 *pp.* (Editors) 37 #1537

Problemi di derivata obliqua per equazioni ellittiche in due variabili. *Univ. Genova Pubbl. Ist. Mat. No.* 182 (1967/68), 22 *pp.* (Editors) 37 #1781

Sulla equazione di Schrödinger con potenziale non locale. (English summary) *Rend. Sem. Mat. Fis. Milano* 38 (1968), 125-136. (F. Calogero) 39 #7909

Osservazioni sopra una classe di disuguaglianze. (English summary) *Rend. Sem. Mat. Fis. Milano* 39 (1969), 171-185. (E. F. Beckenbach) 43 #6380

(with Pagani, Carlo Domenico) Sur les équations intégrales de Wiener-Hopf. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1113-A1114. (H. Widom) 43 #5268

Taliaferro, R. Catesby

* The concept of matter in Descartes and Leibniz. Notre Dame Mathematical Lectures, No. 9. *University of Notre Dame Press, Notre Dame, Ind.*, 1964. iii + 33 *pp.* (J. E. Hofmann) 29 #1130

Talib Nizami, Saiyid Abu. See Nizami, Saiyid Abu Talib.

Talintyre, T. D.

Quotient rings with minimum condition on right ideals. *J. London Math. Soc.* 41 (1966), 141-144. (E.-A. Behrens) 36 #6445

Talipov, A.

(with Siraždinov, S. H.) On a scheme of random wandering. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 4, 27-31. (F. L. Spitzer) 38 #6682

(with Siraždinov, S. H.) A certain random walk problem. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 2, 33-37. (F. L. Spitzer) 44 #4819

Talipova, L. I.

(with Filatov, A. N.) On a variant of the averaging method for systems of integro-differential equations. (Russian) *Differencial'nye Uravnenija* 5 (1969), 958-961. (G. F. Miller) 40 #1743

(with Filatov, A. N.) A certain version of averaging integro-differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 750-752. (J. A. Morrison) 41 #8952

Tall, D. O.

(with Atiyah, M. F.) Group representations, λ-rings and the *J*-homomorphism. *Topology* 8 (1969), 253-297. (H. Bass) 39 #5702

(with Wraith, G. C.) Representable functors and operations on rings. *Proc. London Math. Soc.* (3) 20 (1970), 619-643. (J. Sonner) 42 #258

Tall, Franklin D.

New results on the normal Moore space problem. *Proc. Washington State Univ. Conf. on General Topology (Pullman, Wash., 1970), pp.* 120-126. *Pi Mu Epsilon, Dept. of Math., Washington State Univ., Pullman, Wash.*, 1970. (W. R. Utz) 41 #9195

Tallet, Jorge

On the symmetry of many-valued logical systems. *Logique et Analyse (N.S.)* 13 (1970), 302-322. (G. Bär) 44 #1542

Talley, W. K.

(with Chakerian, G. D.) Some properties of the self-circumference of convex sets. *Arch. Math. (Basel)* 20 (1969), 431-443. (E. Heil) 40 #3434

Tallini, Giuseppe

Sulle connessioni proiettivamente equivalenti di una V_n compatta. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Nat.* (8) 33 (1962), 244-252. (B. Cenkl) 29 #553

Un'applicazione delle geometrie di Galois a questioni di statistica. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 479-485. (H. B. Mann) 29 #4705

Sulle connessioni di Weyl localmente metriche. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 322-328. (K. Yano) 31 #6180

Recent results on Galois geometries. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 183-192. (J. Cofman) 38 #601

Calotte complete di $S_{4,q}$ contenenti due quadriche ellittiche quali sezioni iperpiane. *Rend. Mat. e Appl.* (5) 23 (1964), 108-123. (B. Segre) 29 #6382

(See also Segre, Beniamino, 37 #4700b)

Connessioni dotate di metriche locali su una varietà differenziabile. *Univ. e Politec. Torino Rend. Sem. Mat.* 25 (1965/66), 27-36. (J. J. Etayo) 36 #819

Sulla struttura algebrica delle trasformazioni tra parti di un insieme. *Ann. Mat. Pura Appl.* (4) 71 (1966), 295-322. (B. M. Schein (Šaĭn)) 34 #2746

Local metrics with a global connection. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 23-26. (R. L. Bishop) 34 #6682

Metriche locali dotate di una connessione globale su una varietà differenziabile. *Period. Mat.* (4) 46 (1968), 340-358. (R L. Bishop) 39 #890

(with Bruno, S.) Geometria iperbolica in un piano di Galois S_{2q} con q dispari. (English summary) *Ricerche Mat.* 19 (1970), 48-78. (K. Strubecker) 43 #2600

Tallini Scafati, Maria

} Archi completi in un $S_{2,q}$, con q pari. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 48-51. (H. W. Guggenheimer) 30 #5214

Sui $\{k, n\}$-archi di un piano grafico finito. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 373-378. (B. d'Orgeval) 34 #3423

$\{k, n\}$-archi di un piano grafico finito, con particolare riguardo a quelli con due caratteri. I. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 812-818. (B. d'Orgeval) 35 #4806a

$\{k, n\}$-archi di un piano grafico finito, con particolare riguardo a quelli con due caratteri. II (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 1020-1025. (B. d'Orgeval) 35 #4806b

Una proprietà grafica caratteristica delle forme hermitiane in uno spazio di Galois. *Univ. e Politec. Torino Rend. Sem. Mat.* 26 (1966/67), 33-41. (G. Panella) 38 #6448

Caratterizzazione grafica delle forme hermitiane di un $S_{r,q}$. *Rend. Mat. e Appl.* (5) 26 (1967), 273-303. (G. Panella) 38 #6449

Tallis, G. M.

(with Young, S. S. Y.) Maximum likelihood estimation of parameters of the normal, log-normal, truncated normal and bivariate normal distributions from grouped data. *Austral. J. Statist.* 4 (1962), 49-54. (A. C. Cohen) 31 #6307

Further models for estimating correlation in discrete data. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 82-85. (H. E. Reinhardt) 29 #6582

(with Vagholkar, M. K.) Formulae to improve Wald's approximation for some properties of sequential tests. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 74-81. (H. Chernoff) 32 #6634

Plane truncation in normal populations. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 301-307. (E. Lukacs) 33 #6677

Equilibria under selection for k alleles. *Biometrics* 22 (1966), 121-127. (R. G. Stanton) 33 #2426

Approximate maximum likelihood estimates from grouped data. *Technometrics* 9 (1967), 599-606. (A. C. Cohen) 36 #7245

Selection for an optimum growth curve. (French summary) *Biometrics* 24 (1968), 169-177. (P. Whittle) 36 #6093

(with Light, R.) The use of fractional moments for estimating the parameters of a mixed exponential distribution. *Technometrics* 10 (1968), 161-175. (G. P. Patil) 37 #2363

Note on a calibration problem. *Biometrika* 56 (1969), 505-508. (Author's summary) 40 #8170

(with Rohde, C. A.) Exact first- and second-order moments of estimates of components of covariance. *Biometrika* 56 (1969), 517-525. 40 #8185

(with Leslie, R. T.) General models for r-molecular reactions. *J. Appl. Probability* 6 (1969), 74-87. (R. R. Coveyou) 39 #2235

The identifiability of mixtures of distributions. *J. Appl. Probability* 6 (1969), 389-398. (A. K. Gayen) 41 #9325

A note on sufficient statistics and the exponential family. *Proc. Cambridge Philos. Soc.* 69 (1971), 309-313. (A. K. Gayen) 44 #3413

(with Gordon, C.) A note on the roots of the polynomial equation $f(x) = a$ with reference to stability. *SIAM J. Appl. Math.* 21 (1971), 186-190. (M. Marden) 44 #4192

Tallmadge, J. A.

(with White, D. A.) Static menisci on the outside of cylinders. *J. Fluid Mech.* 23 (1965), 325-335. (From the authors' introduction) 32 #680

Talman, James D.

* Special functions: A group theoretic approach. Based on lectures by Eugene P. Wigner. With an introduction by Eugene P. Wigner. *W. A. Benjamin, Inc., New York-Amsterdam*, 1968. xii + 260 *pp.* (H. Jacquet) 39 #511

Talpalaru, Pavel

Solutions bornées des systèmes différentiels. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11a (1965), 279-290. (T. Yoshizawa) 35 #4530

Sur les systèmes dissipatifs. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 43-47. (P. Sagirow) 36 #6689

Inégalités différentielles pour une certaine équation fonctionnelle de Volterra. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 313-319. (K. Zima) 41 #2177

Solutions périodiques et presque-périodiques des systèmes différentiels. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 375-385. (A. Halanay) 42 #2107

Quelques problèmes qualitatifs de la théorie des équations différentielles dans l'espace de Banach. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 327-337. (J. E. Lagnese) 43 #5372

Talukder, Md. Anwar Hossain

Multivariate regression estimates for finite populations. *Ann. Inst. Statist. Math.* 20 (1968), 441-455. 38 #3976 (E)

Corrections to "On the order of approximation of the variance of multivariate regression estimates (MRE) for finite populations". *Ann. Inst. Statist. Math.* 22 (1970), 401. (Editors) 43 #7021

Talybova, Š. A.

Quadrature formulae with a regular phase of the transfer function. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1968, *no.* 4, 32-36. (A. Ženíšek) 44 #3494

Tam, K. Kuen

A note on the existence of a solution of the Falkner-Skan equation. *Canad. Math. Bull.* 13 (1970), 125-127. (W. M. Whyburn) 41 #3855

An elementary existence proof for the Blasius equation. *Z. Angew. Math. Mech.* 51 (1971), 318-319. (G. J. Butler) 44 #5530

Tam, K. W.

On measures with separable orbit. *Proc. Amer. Math. Soc.* 23 (1969), 409-411. (I. Schochetman) 40 #648

Tam, W. G.

(with Opechowski, W.) Invariance groups of the Schroedinger equation for the case of uniform magnetic field. I. *Physica* 42 (1969), 529-556. (Authors' summary) 42 #7170

Invariance groups of the Schroedinger equation for the case of uniform magnetic field. II. *Physica* 42 (1969), 557-564. (Author's summary) 42 #7171

An analogue of the Bloch theorem in four dimensions. *Physica* 46 (1970), 165-168. (Author's summary) 42 #7172

Tam, Y. K. S.

(with Jankulak, F. J.; de Sobrino, L. G.) A solution of the Fokker-Planck equation for homogeneous plasmas. *Canad. J. Phys.* 42 (1964), 1743-1750. (A. Lenard) 31 #1073

Tamada, Kō

(with Seebass, R.) The distortion of a magnetic field by the flow of a conducting fluid past a circular cylinder. *J. Fluid Mech.* 22 (1965), 561-578. (W. R. Sears) 32 #2010

Tamaev, A. G.

(with Guseĭnov, F. G.) A certain algorithm for the computation of electrical circuits of arbitrary configuration on the basis of the discrete maximum principle. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 1, 118-123. (I. Cederbaum) 41 #5108

Tamagawa, Tsuneo

On discrete subgroups of *p*-adic algebraic groups. *Arithmetical Algebraic Geometry (Proc. Conf. Purdue Univ., 1963), pp.* 11-17. *Harper & Row, New York*, 1965. (I. Satake) 33 #4060

On rational points on projective varieties defined over a complete valuation field. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.,* 1965*), pp.* 84-89. *Amer. Math. Soc., Providence, R. I.*, 1966. (A. Evyatar (Gutwirth)) 34 #7516

Adèles. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.,* 1965*), pp.* 113-121. *Amer. Math. Soc., Providence, R. I.*, 1966. (T. Ono) 35 #2900

Tamano, Hisahiro

On some characterizations of paracompactness. *Topology Conference (Arizona State Univ., Tempe, Ariz.,* 1967*), pp.* 277-285. *Arizona State Univ., Tempe, Ariz.*, 1968. (W. M. Fleischman) 38 #6539

(with Vaughan, J. E.) Paracompactness and elastic spaces. *Proc. Amer. Math. Soc.* 28 (1971), 299-303. (W. M. Fleischman) 42 #8446

Tamari, Dov

Representation of multiplicative systems by families of binary relations and its connections with the theory of analytic functions and of analytic continuation. (Portuguese) *Proc. Third Brazilian Math. Colloq. (1961) (Portuguese)* [*Summa Brasil. Math.* 5 (1962)], *pp.* 217-258. *Conselho Nacional de Pesquisas, São Paulo*, 1962. (B. M. Schein (Šaĭn)) 34 #7431

(with de Carvalho, J. B.) Errata: "Sur l'associativité partielle des symétrisations de semi-groupes". *Portugal. Math.* 22 (1963), 117. 30 #4843

(with Freedman, Haya) Problèmes d'associativité: Une structure de treillis finis induite par une loi demi-associative. *J. Combinatorial Theory* 2 (1967), 215-242. (R. H. Oehmke) 39 #344 (E)

(with Freedman, Haya) Erratum to: "Problèmes d'associativité: Une structure de treillis finis induite par une loi demi-associative". *J. Combinatorial Theory* 4 (1968), 201. (Editors) 39 #345

(with Ginzburg, A.) Representation of binary systems by families of binary relations. *Israel J. Math.* 7 (1969), 21-32. (R. L. Davis) 40 #1315

(with Ginzburg, A.) Representation of generalized groups by families of binary relations. *Israel J. Math.* 7 (1969), 33-45. (R. L. Davis) 40 #1316

The equivalence of associativity and word problems. *Proc. Conf. on Universal Algebra (Queen's Univ., Kingston, Ont.,* 1969*), pp.* 171-189. *Queen's Univ., Kingston, Ont.*, 1970. (H. A. Thurston) 41 #7020

Tamaş, Vasile

Calculation of matrix functions for an arbitrary matrix of third order. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Iaşi Stud. Cerc. Şti. Mat.* 14 (1963), 11-16. (R. F. Rinehart) 30 #4773

(with Reischer, Corina) On recurrent sequences. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 21-27. (M. N. Roşculeţ) 32 #2761

(with Reischer, Corina) On recurrent sequences with elements in a linear algebra. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11a (1965), 249-258. (H. W. Guggenheimer) 34 #5745

(with Reischer, Corina) Matrices with complex quaternionic elements. (Romanian. Russian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 12 (1966), 1-9. (Y. Lehrer-Ilamed) 35 #6706

Weakly nilpotent, nilpotent subalgebras. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 263-266. (A. Rosenberg) 38 #180

On a class of nonassociative algebras. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 281-289. (C. Năstăsescu) 41 #5433

Generalized triple systems. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 15-22. (R. Iordănescu) 42 #6062

Tamaschke, Olaf

S-rings and the irreducible representations of finite groups. *J. Algebra* 1 (1964), 215-232. (J. S. Frame) 29 #4813

(with Frame, J. Sutherland) Über die Ordnungen der Zentralisatoren der Elemente in endlichen Gruppen. *Math. Z.* 83 (1964), 41-45. (N. Ito) 29 #148

S-Ringe und verallgemeinerte Charaktere auf endlichen Gruppen. *Math. Z.* 84 (1964), 101-119. (H. K. Farahat) 29 #2305

On permutation groups. (German summary) *Ann. Mat. Pura Appl.* (4) 80 (1968), 235-279. (D. A. Robinson) 40 #2744

A generalization of subnormal subgroups. *Arch. Math. (Basel)* 19 (1968), 337-347. (I. B. S. Passi) 38 #3356

A generalization of the second isomorphism theorem in group theory. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 135-141. (D. R. LaTorre) 40 #223

An extension of group theory to *S*-semigroups. *Math. Z.* 104 (1968), 74-90. (D. R. LaTorre) 37 #331

A generalization of conjugacy in groups. *Rend. Sem. Mat. Univ. Padova* 40 (1968), 408-427. (D. R. LaTorre) 37 #5286

An extension of group theory. *Symposia Mathematica (INDAM, Rome,* 1967/68*), Vol.* 1, *pp.* 5-13. *Academic Press, London*, 1969. (D. R. LaTorre) 40 #242

* Permutationsstrukturen. Vorlesungen an der Universität Tübingen im Wintersemester 1968/69. B.I-Hochschulskripten, 710/710a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich*, 1969. xii + 276 *pp.* (J. S. Frame) 44 #1719

On the theory of Schur-rings. (German summary) *Ann. Mat. Pura Appl.* (4) 81 (1969), 1-43. (G. de B. Robinson) 39 #5721

A further generalization of the second isomorphism theorem in group theory. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 1-8. (Donald W. Miller) 43 #337

A generalization of normal subgroups. *J. Algebra* 11 (1969), 338-352. (J. S. Frame) 38 #5912

On Schur-rings which define a proper character theory on finite groups. *Math. Z.* 117 (1970), 340-360. (G. de B. Robinson) 43 #6336

Tamássy, Lajos

Concerning the equivalence of spaces with tensor connection and the theory of curvature. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 13 (1963), 359-373. (P. Drăgilă) 37 #6863

Über tensorielle Übertragungen spezieller Art. *Publ. Math. Debrecen* 11 (1964), 273-277. (A. Fialkow) 32 #6362

Über autoparallele Flächen tensorial zusammenhängender Räume. *Acta Math. Acad. Sci. Hungar.* 16 (1965), 75-87. (A. M. Rodrigues) 34 #3484

Aus dekomponierbaren Elementen bestehende Gebilde eines Produktraumes. *Mat. Vesnik* 2(17) (1965), 121-126. (M. Kucharzewski) 34 #3485

A characteristic property of the sphere. *Pacific J. Math.* 29 (1969), 439-446. (J. E. Brothers) 39 #7543

On nonlinear tensorial connexions. *Publ. Math. Debrecen* 16 (1969), 193-197. (T. J. Willmore) 42 #995

Tam Bak, N. T.

(with Landkof, N. S.) On a theorem of W. Rudin. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 3 (1966), 81-85. (J. G. Krzyż) 35 #377

Tambouratzis, D. G.

On a property of the variance of the waiting time of a queue. *J. Appl. Probability* 5 (1968), 702-703. (From the author's introduction) 39 #7696

A note on Belyaev's limiting distribution of the intervals between losses in an n-server system. *J. Appl. Probability* 7 (1970), 457-464. (S. G. Mohanty) 41 #9380

Tamburini, Maria Chiara

Estensioni di operatori di chiusura. (English summary) *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 856-870. (S. Rudeanu) 41 #6734

Tamburino, Louis A.

(with Winicour, J.) Lorentz-covariant gravitational energy-momentum linkages. *Phys. Rev. Lett.* 15 (1965), 601-605. (A. B. Komar) 33 #2390

Tamhankar, M. V.

A characterization of normality. *Ann. Math. Statist.* 38 (1967), 1924-1927. (Simeon M. Berman) 36 #2197

Tamir, T.

(with Wang, H. C.) Characteristic relations for nonperiodic solutions of Mathieu's equation. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 101-119. (F. M. Arscott) 32 #235

Tamm, Maret

The natural initial solution and an analysis of the sensitivity of the optimal solution in linear programming problems. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 152-156. (Author's summary) 42 #8891

Tamme, È. È.

(with Baron, S. A.; Gabovič, Ja.; Kaasik, Ü.; Lumiste, Ü.; Ruubel, A.; Hion, Ja.) Mathematics in Soviet Estonia during the past 20 years. (Russian) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 12-52. (Editors) 32 #7380

(with Saarniĭt, I.) On the a posteriori error estimate for approximate solutions of linear differential equations. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 216-230. (P. J. Laurent) 34 #8651

Solution of integro-differential equations of elliptic type by the finite-differences method. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 154-158. (B. Kellogg) 34 #981

(with Kaasik, Ü.) An algorithm for solving special problems in nonlinear integer programming. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 192 (1966), 121-128. (P. L. Hammer) 36 #3574

Solving a nonlinear boundary value problem for a second order ordinary differential equation by the method of finite differences. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 988-1000. (Walter Gautschi) 39 #2341

(with Sõrmus, I.) The solution of the nonstationary transport equation by the difference method. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 19 (1970), 275-285. (J. Švejda) 44 #3519

(with Gabovitš, J.; Kaasik, Ü.; Kangro, G.; Lumiste, Ü.; Hion, Ja.) The development of mathematics at Tartu University in the years 1964-1967. (Russian) *Tartu Riikl. Ül. Toimetised Vih.* 253 (1970), 3-25. (Editors) 43 #4614

The solution of a fourth order quasilinear boundary value problem by the finite difference method. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 253 (1970), 258-275. (T. Styś) 44 #7776

Tammela, P.

An estimate of the critical determinant of a two-dimensional convex symmetric domain. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 12 (103), 103-107. (W. J. Firey) 44 #2707

Tammer, Klaus

(with Guddat, Jürgen) Eine Modifikation der Methode von Theil und van de Panne zur Lösung einparametrischer quadratischer Optimierungsprobleme. (English and Russian summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 3, 199-206. (M. Rössler) 43 #4469

Tammeste, R.

The evaluation of distribution entropy with the aid of moments. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 192 (1966), 104-120. (I. Csiszár) 37 #1195

Tammi, Olli

On the parallel projection of a sphere. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 27 (1962), 25-27. (L. Gyarmathi) 32 #2951

On the analytic foundations of central projection. I. *Soc. Sci. Fenn. Comment. Phys.-Math.* 29 (1964), *no.* 2, 18 *pp.* (L. Gyarmathi) 30 #3397

(with Schiffer, M.) The fourth coefficient of a bounded real univalent function. *Ann. Acad. Sci. Fenn. Ser. A I No.* 354 (1965), 32 *pp.* (V. Singh) 35 #4394

On the analytic foundations of central projection. II. *Soc. Sci. Fenn. Comment. Phys.-Math.* 30 (1965), *no.* 10, 27 *pp.* (L. Gyarmathi) 32 #2956

(with Schiffer, M.) On the fourth coefficient of bounded univalent functions. *Trans. Amer. Math. Soc.* 119 (1965), 67-78. (Z. Nehari) 32 #2579

(with Schiffer, M.) A method of variations for functions with bounded boundary rotation. *J. Analyse Math.* 17 (1966), 109-144. (M. Reade) 35 #5601

(with Schiffer, M.) On the fourth coefficient of univalent functions with bounded boundary rotation. *Ann. Acad. Sci. Fenn. Ser. A I No.* 396 (1967), 26 *pp.* (Ch. Pommerenke) 35 #3052

On the use of the Grunsky-Nehari inequality for estimating the fourth coefficient of bounded univalent functions. *Colloq. Math.* 16 (1967), 35-42. (Z. Nehari) 36 #1637

(with Lonka, H.) On the use of step-functions in extremum problems of the class with bounded boundary rotation. *Ann. Acad. Sci. Fenn. Ser. A I No.* 418 (1968), 18 *pp.* (M. Reade) 36 #6601

(with Schiffer, Menahem) On bounded univalent functions which are close to identity. *Ann. Acad. Sci. Fenn. Ser. A I No.* 435 (1968), 26 *pp.* (R. J. Libera) 39 #4372

Grunsky type of inequalities, and determination of the totality of the extremal functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 443 (1969), 20 *pp.* (D. K. Thomas) 40 #4443

(with Schiffer, Menahem) On the coefficient problem for bounded univalent functions. *Trans. Amer. Math. Soc.* 140 (1969), 461-474. (M. Reade) 39 #7088

On Green's inequalities for the third coefficient of bounded univalent functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 481 (1970), 10 *pp.* (S. D. Bernardi) 43 #5021

(with Ławrynowicz, Julian) On estimating of a fourth order functional for bounded univalent functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 490 (1971), 18 *pp.* (J. W. Noonan) 44 #5447

Tamrazov, P. M.

(See Collection of scientific works of graduate students at the Kiev Order of Lenin Institute of Technology, 41 #1)

Some estimates in the theory of univalent conformal mappings of doubly connected domains. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1963, 1160-1163. (Z. Lewandowski) 29 #6008

Some canonical conformal mappings of domains of any connectedness on a domain with slits. (Russian) *Problems Math. Phys. and Theory of Functions (Russian)*, *pp.* 154-167. *Izdat. Akad. Nauk Ukrain. SSR, Kiev*, 1964. (E. Reich) 32 #2570

The theory of conformal univalent mappings of domains of arbitrary connectivity on to domains with slits. (Russian) *Problems of Math. Phys. and Theory of Functions, II (Russian)*, *pp.* 110-117. *Naukova Dumka, Kiev*, 1964. (Z. Lewandowski) 33 #5861; errata 33, p. 1602

A conformally metric theory of doubly-connected regions, and a generalized Blaschke product. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 308-311. (P. Caraman) 31 #327

Theorems on the covering of lines under a conformal mapping. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 502-524. (Z. Lewandowski) 31 #2392

Certain extremal problems of the theory of univalent conformal mappings. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 329-337. (K. W. Lucas) 33 #7523

Certain problems of conformal mapping generating quadratic differentials with five different poles. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 1279-1280. (K. W. Lucas) 34 #1507

Certain extremal problems of conformal mapping of doubly connected and multiply connected regions. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 530-532. (S. B. Agard) 35 #3047

A theorem on line integrals for extremal length. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 51-54. (A. J. Lohwater) 35 #1775

Continuity of certain conformal invariants. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 78-84. (P. Caraman) 34 #6052

On the general coefficient theorem. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 59-71. (J. E. Miller) 36 #375

On certain extremal problems of conformal mapping. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 97-125. (P. Caraman) 36 #1634 (E)

A form of the method of the extremal metric. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 1, 123-128. (E. Reich) 35 #3059

(with Lebedev, N. A.) Inverse approximation theorems on closed sets of the complex plane. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1046-1049. (D. A. Brannan) 37 #4271

Extremal conformal mappings and poles of quadratic differentials. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 1033-1043. (I. N. Baker) 38 #3417

Supplement to the paper "On certain extremal problems of conformal mapping". (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 210 (1969), 111-118. (K. W. Lucas) 44 #423

The angular displacement of the boundary in a certain class of univalent conformal mappings. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 563-566. (T. Kubo) 42 #4723

Solid inverse theorems of polynomial approximation for regular compacta of the complex plane. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 540-542. (W. H. J. Fuchs) 44 #4218

Tamura, Hirokuni

(with Spivey, W. Allen) Goal programming in econometrics. *Naval Res. Logist. Quart.* 17 (1970), 183-192. (M. J. Beckmann) 42 #2781

Tamura, Itiro

Imbeddings of differentiable manifolds and characteristic classes. (Japanese) *Sûgaku* 13 (1961/62), 140-153. (A. Morimoto) 31 #5214

Classification of (n-1)-connected differentiable manifolds of dimension $2n + 1$. *Sûgaku* 16 (1964/65), 69-80. (S. Takizawa) 37 #924

On the classification of sufficiently connected manifolds. *J. Math. Soc. Japan* 20 (1968), 371-389. (M. A. Kervaire) 37 #5892

Fixed point sets of differentiable periodic transformations on spheres. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 101-114. (D. E. Sanderson) 41 #1047

The diversity of manifolds. (Japanese) *Sûgaku* 21 (1969), 275-285. (A. Morimoto) 41 #7700

amura, Jirô

(with Oikawa, Kôtaro) Examples of minimal slit domains and $N_{\mathfrak{D}}$-sets. (Japanese) *Sûgaku* 17 (1965), 99-101. (T. Kubo) 34 #2846

(with Oikawa, Kôtaro; Yamazaki, Keijiro) Examples of minimal parallel slit domains. *Proc. Amer. Math. Soc.* 17 (1966), 283-284. (E. Reich) 32 #4260

Planar coverings of closed Riemann surfaces. *Nagoya Math. J.* 29 (1967), 243-257. (H. H. Martens) 35 #364

amura, Ryoji

On a construction of certain optimum rank tests. *Bull. Math. Statist.* 11 (1964), *no.* 1-2, 19-24. 30 #5424

Nonparametric inferences with a preliminary test. *Bull. Math. Statist.* 11 (1964/65), *no.* 3-4, 39-61. (M. Dwass) 31 #6322

Some estimate procedures with a nonparametric preliminary test. I. *Bull. Math. Statist.* 11 (1964/65), *no.* 3-4, 63-71. (I. R. Savage) 32 #1806

Multivariate nonparametric several-sample tests. *Ann. Math. Statist.* 37 (1966), 611-618. (R. H. Farrell) 33 #833

Nonparametric tests for scale. *Bull. Math. Statist.* 12 (1966), *no.* 1-2, 89-94. (Leo Katz) 34 #8572

Some estimate procedures with a nonparametric preliminary test. II. *Bull. Math. Statist.* 12 (1967), *no.* 3-4, 47-59. (I. R. Savage) 38 #1796a

Some weighted estimates in the nonparametric cases. *Bull. Math. Statist.* 12 (1967), *no.* 3-4, 61-73. (I. R. Savage) 38 #1796b

Small sample properties of a "sometimes pool estimate" in the nonparametric case. *Bull. Math. Statist.* 12 (1967), *no.* 3-4, 75-83. (Z. Govindarajulu) 38 #1797

Some distribution-free multiple comparison procedures. *Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci.* 1 (1968), *no.* 1, 1-7. (C. H. Kraft) 37 #4924

Some multivariate comparison procedures based on ranks. *Ann. Math. Statist.* 40 (1969), 1486-1491. (I. Guttman) 39 #2258

On a c-sample test based on trimmed samples. *Ann. Math. Statist.* 42 (1971), 1455-1460. 44 #4854

Tamura, Saburo

Axioms for commutative rings. *Proc. Japan Acad.* 46 (1970), 116-120. (J. Luh) 42 #6019

Axioms for Boolean rings. *Proc. Japan Acad.* 46 (1970), 121-123. (I. Sussman) 42 #4459

The implicational fragment of *R*-mingle. *Proc. Japan Acad.* 47 (1971), 71-75. (K. Inoue) 44 #30

Tamura, Takayuki

Some special groupoids. *Math. Japon.* 8 (1963), 23-31. (D. R. Brown) 30 #3933

Examples of completely exclusive direct product. *Portugal. Math.* 23 (1964), 41-54. (H.-J. Hoehnke) 30 #4850

(with Merkel, R. B.) The number of subsemigroups of certain semigroups. *Portugal. Math.* 23 (1964), 183-191. (D. R. Brown) 34 #1433

(with Graham, N.) Certain embedding problems of semigroups. *Proc. Japan Acad.* 40 (1964), 8-13. (D. R. Brown) 29 #1280

Another proof of a theorem concerning the greatest semilattice-decomposition of a semigroup. *Proc. Japan Acad.* 40 (1964), 777-780. (M. Yamada) 31 #3530

Report on attainability of systems of identities. *Bull. Amer. Math. Soc.* 71 (1965), 555-558. (H.-J. Hoehnke) 31 #1316

(with Kimura, Naoki; Merkel, Rudolph) Semigroups in which all subsemigroups are left ideals. *Canad. J. Math.* 17 (1965), 52-62. (G. B. Preston) 30 #3161

(with Yaqub, F. M.) Examples related to attainability of identities on lattices and rings. *Math. Japon.* 10 (1965), 35-39. (H.-J. Hoehnke) 33 #79

(with Chrislock, J. L.) Completely 0-simple subsemigroups of completely 0-simple semigroups with finite structure groups. *Math. Japon.* 10 (1965), 91-100. (Donald W. Miller) 33 #5759

(with Merkel, R. B.; Latimer, J. F.) Correction and supplement to the paper "The direct product of right singular semigroups and certain groupoids". *Proc. Amer. Math. Soc.* 16 (1965), 841. (Editors) 31 #2343

(with Chrislock, J. L.) Subsemigroups of completely 0-simple semigroups. I. *Proc. Japan Acad.* 41 (1965), 128-131. (E.-A. Behrens) 32 #1280

(with Biggs, R.; Sasaki, Morio) Non-negative integer valued functions on commutative groups. I. *Proc. Japan Acad.* 41 (1965), 564-569. (Hanna Neumann) 33 #2721

(with Plemmons, R. J.) Semigroups with a maximal homomorphic image having zero. *Proc. Japan Acad.* 41 (1965), 681-685. (P. A. Grillet) 33 #1387

The theory of operations on binary relations. *Trans. Amer. Math. Soc.* 120 (1965), 343-358; *errata, ibid.* 123 (1966), 273. (G. B. Preston) 35 #273 (E)

Attainability of systems of identities on semigroups. *J. Algebra* 3 (1966), 261-276. (P. A. Grillet) 32 #7668

Notes on commutative Archimedean semigroups. I, II. *Proc. Japan Acad.* 42 (1966), 35-40; *ibid.* 42 (1966), 545-548. (Donald W. Miller) 36 #2543

Minimal or smallest relation of given type. *Proc. Japan Acad.* 42 (1966), 111-114. (G. B. Preston) 35 #274

(with Levin, Richard) On locally cyclic semigroups. *Proc. Japan Acad.* 42 (1966), 376-379. (R. H. Oehmke) 34 #4400

(with Etterbeek, Wallace) The lattice of congruences of locally cyclic semigroups. *Proc. Japan Acad.* 42 (1966), 682-684. (F. C. Biesele) 34 #7693

(with Shafer, J.) Another proof of two decomposition theorems of semigroups. *Proc. Japan Acad.* 42 (1966), 685-687. (F. C. Biesele) 34 #7694

(with Dickinson, Robert) Semigroups connected with equivalence and congruence relations. *Proc. Japan Acad.* 42 (1966), 688-692. (F. C. Biesele) 35 #275

(with Chrislock, J. L.) Subdirect products of semigroups and rectangular bands. *Bull. Amer. Math. Soc.* 73 (1967), 637-638. (H.-J. Hoehnke) 35 #5532 (E)

(with Shafer, J.) Power semigroups. *Math. Japon.* 12 (1967), 25-32. (W. D. Munn) 37 #1499

Decomposability of extension and its application to finite semigroups. *Proc. Japan Acad.* 43 (1967), 93-97. (R. J. Warne) 36 #292

Notes on groupoids and their automorphism groups. *Proc. Japan Acad.* 43 (1967), 843-846. (P.-A. Grillet) 37 #4192

(with Chrislock, J. L.) Errata to: "Subdirect products of semigroups and rectangular bands". *Bull. Amer. Math. Soc.* 74 (1968), 628. (Editors) 36 #5245

Maximal or greatest homomorphic images of given type. *Canad. J. Math.* 20 (1968), 264-271. (P.-A. Grillet) 37 #4193

Construction of trees and commutative archimedean semigroups. *Math. Nachr.* 36 (1968), 257-287. (D. B. McAlister) 37 #6222

Notes on medial archimedean semigroups without idempotent. *Proc. Japan Acad.* 44 (1968), 776-778. (D. J. Foulis) 39 #1576

(with Mead, D. G.) Semigroups satisfying $xy^m = yx^m = (xy^m)^n$. *Proc. Japan Acad.* 44 (1968), 779-781. (J. B. Kim) 38 #5960

On free contents. *Proc. Japan Acad.* 44 (1968), 865-867. (F. C. Biesele) 38 #5963

On concentric semigroups. *Proc. Japan Acad.* 44 (1968), 868-870. (F. C. Biesele) 38 #4585

Note on homogeneous homomorphisms. *Proc. Japan Acad.* 44 (1968), 871-872. (F. C. Biesele) 38 #4586

Errata to: "The theory of operations on binary relations". *Trans. Amer. Math. Soc.* 134 (1968), 383. (Editors) 37 #4194

Commutative semigroups whose lattice of congruences is a chain. *Bull. Soc. Math. France* 97 (1969), 369-380. (D. B. McAlister) 41 #5527

Semigroups satisfying identity $xy = f(x,y)$. *Pacific J. Math.* 31 (1969), 513-521. (Donald W. Miller) 41 #5528

(with Yamada, Miyuki) Note on finite commutative nil-semigroups. *Portugal. Math.* 28 (1969), 189-203. (J. B. Kim) 44 #6886

(with Chrislock, J. L.) Notes on subdirect products of semigroups and rectangular bands. *Proc. Amer. Math. Soc.* 20 (1969), 511-514. (Donald W. Miller) 38 #4587

Some contributions of computation to semigroups and groupoids. *Computational Problems in Abstract Algebra (Proc. Conf., Oxford, 1967), pp.* 229-261. *Pergamon, Oxford,* 1970. (M. Gould) 40 #7376

Commutative archimedean cancellative semigroups without idempotent. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot:* 1969/70, *Algèbre et Théorie des Nombres, Fasc.* 2, *Exp.* DG5, 19 *pp. Secrétariat mathématique, Paris,* 1970. (G. J. Lallement) 44 #4131

(with Levin, Richard G.) Notes on commutative power joined semigroups. *Pacific J. Math.* 35 (1970), 673-679. (M. Friedberg) 43 #3366

Abelian groups and $\mathcal{R}$-semigroups. *Proc. Japan Acad.* 46 (1970), 212-216. (R. McFadden) 43 #381

Notes on finite left amenable semigroups. *Proc. Japan Acad.* 46 (1970), 217-221. (E. Granirer) 42 #6138

Finite union of commutative power joined semigroups. *Semigroup Forum* 1 (1970), *no.* 1, 75-83. (J. L. Chrislock) 42 #3207

On commutative exclusive semigroups. *Semigroup Forum* 2 (1971), *no.* 2, 181-187. (G. B. Preston) 43 #3368

Tamura, Taro

Analyses of the scattering of nuclear particles by collective nuclei in terms of the coupled-channel calculation. *Rev. Modern Phys.* 37 (1965), 679-708. (From the author's summary) 32 #2115

Tan, Chung-jen

(with Menon, Premachandran R.; Friedman, Arthur D.) Structural simplification and decomposition of asynchronous sequential circuits. *IEEE Trans. Computers* C-18 (1969), 830-838. (Authors' summary) 40 #5348

Tan, H. S.

(with Cheng, D. K.) On the uncoupling of Wiener-Hopf equations for half-plane diffraction problems in a gyrotropic medium. *J. Mathematical Phys.* 10 (1969), 1957-1963. (E. Meister) 41 #1292

Tan, K. H.

(with Teh, H. H.) Finite auto-extensions of graphs. *Nanta Math.* 3 (1969), *no.* 2, 33-41. (From the authors' introduction) 42 #119

Tan, Kaidy. See Tan Kai-di.

Tan, Li-min'. See T'ang Li-min.

Tan, Peter

On Sprott's example of an ancillary statistic. *Canad. Math. Bull.* 13 (1970), 205-207. (D. A. Sprott) 42 #2573

Tan, S. K.

On the cohomology of finitely generated abelian groups. *J. Nanyang Univ.* 1 (1967), 324-346. (J. Rotman) 38 #1180

Tan, S. T.

* (with Künzi, H. P.) Lineare Optimierung grosser Systeme. Lecture Notes in Mathematics, No. 27. *Springer-Verlag, Berlin-New York,* 1966. vi + 121 *pp.* (M. J. Beckmann) 34 #7204

Beiträge zur Dekomposition von linearen Programmen. (English summary) *Unternehmensforschung* 10 (1966), 168-189. (H. Künzi) 35 #4019

Beiträge zur Dekomposition von linearen Programmen. II. *Unternehmensforschung* 10 (1966), 247-268. (H. F. Karreman) 35 #4020

(See also Künzi, H. P.; Oettli, Karl Werner, 40 #5262)

Tan, Wai-yuan

(with Tiao, George C.) Bayesian analysis of random-effect models in the analysis of variance. I. Posterior distribution of variance-components. *Biometrika* 52 (1965), 37-53. (D. A. Sprott) 34 #8574

(with Tiao, George C.) Bayesian analysis of random-effect models in the analysis of variance. II. Effect of autocorrelated errors. *Biometrika* 53 (1966), 477-495. (D. A. Sprott) 35 #5069

On the lower bounds for the variances of estimators in the sampling theory framework. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 144-166. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (M. Atiqullah) 37 #1011

Some results on multivariate regression analysis. *Nanta Math.* 3 (1968/69), 54-71. (D. Papamicail) 40 #6690

Some distribution theory associated with complex Gaussian distribution. (Chinese summary) *Tamkang J. No.* 7 (1968), 263-302. (H. Bergström) 40 #912

Some results on multivariate regression analysis. (Chinese summary) *Tamkang J. No.* 7 (1968), 303-315. (P. S. Dwyer) 39 #7740

Note on the multivariate and the generalized multivariate beta distributions. *J. Amer. Statist. Assoc.* 64 (1969), 230-241. (E. J. Williams) 39 #2244

(with Guttman, Irwin) A disguised Wishart variable and a related theorem. *J. Roy. Statist. Soc. Ser. B* 33 (1971), 147-152. 44 #4843

Tanabe, Hiroki

Evolution equations. (Japanese) *Sûgaku* 14 (1962/63), 137-152. (Y. Sibuya) 29 #3909

Note on singular perturbation for abstract differential equations. *Osaka J. Math.* 1 (1964), 239-252. (J. Smoller) 30 #2368; erratum, 30, p. 1206

On differentiability in time of solutions of some type of boundary value problems. *Proc. Japan Acad.* 40 (1964), 649-653. (C. S. Morawetz) 32 #7944

On differentiability and analyticity of solutions of weighted elliptic boundary value problems. *Osaka J. Math.* 2 (1965), 163-190. (J. Peetre) 32 #289

Note on uniqueness of solutions of differential inequalities of parabolic type. *Osaka J. Math.* 2 (1965), 191-204. (J. Peetre) 32 #290

(with Watanabe, Michiaki) Note on perturbation and degeneration of abstract differential equations in Banach space. *Funkcial. Ekvac.* 9 (1966), 163-170. (J. Smoller) 35 #517

On estimates for derivatives of solutions of weighted elliptic boundary value problems. *Osaka J. Math.* 3 (1966), 163-182. (R. Beals) 34 #480

On regularity of solutions of abstract differential equations of parabolic type in Banach space. *J. Math. Soc. Japan* 19 (1967), 521-542. (H. O. Fattorini) 36 #2931

(with Kato, Tosio) On the analyticity of solution of evolution equations. *Osaka J. Math.* 4 (1967), 1-4. (J. J. Schäffer) 36 #5482

On regularity of solutions of abstract differential equations in Banach space. *Proc. Japan Acad.* 43 (1967), 305-307. (C. Corduneanu) 36 #1802

Tanabe, Kôsai

(with Okabayashi, Takao; Yamada, Masao) The Bogoliubov transformation in the field theory. The mass equation. *Progr. Theoret. Phys.* 32 (1964), 619-646. (F. R. Halpern) 32 #830

(with Sugawara, Hirotaka) *G*-parity and unitary symmetry. *Progr. Theoret. Phys.* 32 (1964), 911-921. (S. P. Rosen) 31 #5565

(with Shima, Kazuhisa) An approach to the symmetry of hadrons on the basis of the Lie group $S_p(3)$. I. *Progr. Theoret. Phys.* 34 (1965), 20-45. (Jean Nuyts) 32 #7059

(with Shima, Kazuhisa) Isoparity and simple Lie group. *J. Mathematical Phys.* 8 (1967), 657-662. (A. Kihlberg) 35 #7660

Tanaev, V. S.

On the theory of scheduling. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 792-794. (J. Marschak) 31 #5691

Some optimal functions of single-stage production. (Russian) *Dokl. Akad. Nauk BSSR* 9 (1965), 11-14. (R. F. Rinehart) 35 #768

A method for solving discrete programming problems. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 776-782. (Ju. Finkel'šteĭn (RŽMat 1969 #3 V315)) 42 #8893

(with Levin, G. M.) A certain class of combinatorial optimization problems. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1968, *no.* 5, 30-35. (M. Peschel) 41 #6561

(with Levin, G. M.) On the theory of optimization on sets of permutations. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 588-590. (E. Ja. Gabovič) 43 #3133

(with Lambin, N. V.) The contour-free orientation of composite graphs. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 780-781. (E. Ja. Gabovič) 43 #3149

Tanaka, Chuji

On functions of class *U*. *Ann. Acad. Sci. Fenn. Ser. A I No.* 317 (1962), 12 *pp.* (A. J. Lohwater) 31 #356

On Blaschke products in the unit-circle. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 27 (1963), 67-77. (G. T. Cargo) 29 #2399

On E. Lindelöf's theorem on the meromorphic function of bounded characteristic in the unit circle. *Mem. School Sci. Engrg Waseda Univ. No.* 28 (1964), 57-61. (L. R. Sons) 42 #6242

On the harmonic majorant of the subharmonic functions in the unit circle. *Mem. School Sci. Engrg. Waseda Univ. No.* 28 (1964), 63-72. (R. A. Hunt) 42 #6268

On the metrical theorems of cluster sets of meromorphic functions. *Nagoya Math. J.* 24 (1964), 143-157. (J. M. Anderson) 31 #357

On E. Lindelöf's theorem on the meromorphic function of bounded characteristic in the unit circle. *Proc. Japan Acad.* 40 (1964), 247-249. (D. A, Storvick) 31 #5980

Some limit theorems for Blaschke products in the unit circle. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 29 (1965), 87-107. (G. T. Cargo) 38 #2307

On the rate of growth of Blaschke products in the unit circle. *Proc. Japan Acad.* 41 (1965), 507-510. (G. T. Cargo) 35 #4433

Boundary convergence of Blaschke products in the unit-circle. II. *Proc. Japan Acad.* 41 (1965), 511-516. (G. T. Cargo) 35 #443

On the metric cluster values of the bounded regular function in the unit disk. *Mem. School Sci. Engrg. Waseda Univ. Tokyo No.* 31 (1967), 119-129. (D. C. Rung) 40 #370

Tanaka, Eiichi

Systematic listing of paths and cuts by diakoptical method. (Japanese summary) *RAAG Res. Notes* (3) *No.* 115 (1966), 21 *pp.* *(loose errata)* (G. Kron) 34 #4049

Diakoptical formulas for calculating paths and cuts. *Electron Commun. Japan* 50 (1967), *no.* 9, 1-9. (Leonard Weiss) 39 #1353

An algebraic theory of network-theoretic problems of communication systems. *Electron. Commun. Japan* 50 (1967), *no.* 9, 10-20. (Leonard Weiss) 39 #1236

(with Kasai, Tamotsu; Taki, Iichi) Self-learning of finite state language by machines. *Electron. Commun. Japan* 52 (1969), *no.* 4, 115-122. (D. Vaida) 41 #9674

Tanaka, Hatsukazu

(with Nishida, Fujio) On a decoding procedure for cyclic codes. *Bull. Univ. Osaka Prefecture Ser. A* 19 (1970), *no.* 1, 109-117. (P. N. Rathie) 44 #1506

Tanaka, Hidehiko

(with Osatake, Tonau) Scattered type switching networks. *Electron. Commun. Japan* 51 (1968), *no.* 6, 23-32. (A. Lehman) 43 #6007

Tanaka, Hidematu

On Wiener compactification of a Riemann surface associated with the equation $\Delta u = pu$. *Proc. Japan Acad.* 45 (1969), 675-679. (C. Wang) 42 #6221

Tanaka, Hideo

(with Kasahara, M.; Tezuka, Y.; Kasahara, Y.) Computation over Galois fields using shiftregisters. *Information and Control* 13 (1968), 75-84. (Authors' summary) 38 #4076

(with Asai, Kiyoji) Synthesis of low-sensitivity closed-loop systems by iterative method. *Bull. Univ. Osaka Prefecture Ser. A* 18 (1969), *no.* 2, 401-413. (J. Casti) 42 #2832

(with Tsutsui, Shigeyoshi) Synthesis of linear feedback control systems based on sensitivity considerations. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 457-465. (Authors' summary) 42 #4281

Tanaka, Hiroshi

(with Maruyama, Gishirô) On recurrent stationary Markoff processes. (Japanese) *Sûgaku* 13 (1961/62), 30-37. (Yuji Itô) 29 #4109

(with Ikeda, Nobuyuki; Ueno, Tadashi; Sato, Keniti) A boundary-value problem for multi-dimensional diffusion processes. (Japanese) *Sûgaku* 13 (1961/62), 37-53. (Yuji Itô) 29 #4093

Note on continuous additive functionals of the 1-dimensional Brownian path. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 1 (1962/63), 251-257. (R. M. Blumenthal) 29 #6559

Existence of diffusions with continuous coefficients. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 89-103. (K. Krickeberg) 29 #6545

Note on additive functionals of the class (U) of Meyer of Markov processes. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 154-165. (T. Watanabe) 33 #4995

Local solutions of stochastic differential equations associated with certain quasilinear parabolic equations. *J. Fac. Sci. Univ. Tokyo Sect I* 14 (1967), 313-326. (H. P. McKean, Jr.) 37 #3664

(with Yosida, Kôsaku; Watanabe, Takeshi) On the pre-closedness of the potential operator. *J. Math. Soc. Japan* 20 (1968), 419-421. (D. W. Stroock) 37 #4282

Propagation of chaos for certain Markov processes of jump type with nonlinear generators. I, II. *Proc. Japan Acad.* 45 (1969), 449-452; *ibid.* 45 (1969), 598-600. (J. A. Goldstein) 41 #2792

Propagation of chaos for certain purely discontinuous Markov processes with interactions. *J. Fac. Sci. Univ. Tokyo Sect. I* 17 (1970), 259-272. (F. B. Knight) 43 #8122

Purely discontinuous Markov processes with nonlinear generators and their propagation of chaos. (Russian summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 599-621. (H. P. McKean, Jr.) 43 #5632

anaka, Hiroshi

Riemann surfaces with Martin and Kuramochi boundary points. *Kuramochi Boundaries of Riemann Surfaces (Sympos. Res. Inst. Math. Sci., Kyoto,* 1965*), pp.* 30-42. *Springer, Berlin,* 1968. (G. Springer) 39 #2970

On Kuramochi's function-theoretic separative metrics on Riemann surfaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 309-330. (M. Goldstein) 40 #4449

Relative Dirichlet problems on Riemann surfaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 33 (1969), 47-57. (M. Itô) 40 #342

Some properties on Kuramochi boundaries of hyperbolic Riemann surfaces. *J. Fac. Sci. Hokkaido Univ. Ser. I* 21 (1970), 129-132. (N. Toda) 42 #3272

naka, Hisao

On an arithmetical set of real numbers. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 519-520. (G. Kreisel) 33 #3926

(with Nishimura, Toshio) On two systems for arithmetic. *J. Math. Soc. Japan* 17 (1965), 244-280. (A. Mostowski) 32 #37

On limits of sequences of hyperarithmetical functionals and predicates. *Comment. Math. Univ. St. Paul.* 14 (1966), 105-121. (J. N. Crossley) 36 #1325

(with Tugué, Tosiyuki) A note on the effective descriptive set theory. *Comment. Math. Univ. St. Paul.* 15 (1966), 19-28. (Đ. Kurepa) 35 #63

Some properties of $\sum_1^1$- and Π_1^1-sets in N^N. *Proc. Japan Acad.* 42 (1966), 304-307. (G. Kreisel) 34 #5683

A basis result for Π_1^1-sets of positive measure. *Comment. Math. Univ. St. Paul.* 16 (1967/68), 115-127. (G. Kreisel) 38 #4315

Some results in the effective descriptive set theory. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 11-52. (A. H. Stone) 37 #3926

Notes on measure and category in recursion theory. *Ann. Japan Assoc. Philos. Sci.* 3, 231-241 (1970). (J. R. Shoenfield) 44 #78

On analytic well-orderings. *J. Symbolic Logic* 35 (1970), 198-204. (K. Appel) 42 #5796

On a Π_1^0 set of positive measure. *Nagoya Math. J.* 38 (1970), 139-144. (P. Hájek) 43 #4676

A property of arithmetic sets. *Proc. Amer. Math. Soc.* 31 (1972), 521-524. (D. A. Clarke) 44 #3870

anaka, Kaoru

A generalisation of Euler's ϕ-function. *Res. Rep. Tokyo Electrical Engrg. College No.* 15 (1967), 24-29. (K. Thanigasalam) 38 #4429

On the number theoretic function $R\{x * \Pi_k|s\}$. *Res. Rep. Tokyo Electrical Engrg. College No.* 16 (1968), 111-119. (T. M. Apostol) 44 #167

anaka, Kashiko

On axiom systems of propositional calculi. XI. *Proc. Japan Acad.* 41 (1965), 898-900. (From the author's introduction) 33 #3899

Axiom systems of B-algebra. V. *Proc. Japan Acad.* 42 (1966), 101-104. (J. R. Shoenfield) 33 #5457g

anaka, Katsumi

(with Itabashi, K.) Consequences of crossing symmetry in SU$_3$. *Phys. Rev.* (2) 135 (1964), B452-B454. (Authors' summary) 30 #876

Boson-pole model in K-meson and η-meson decays. *Phys. Rev.* (2) 136 (1964), B1813-B1816. (C. Kacser) 32 #7032

anaka, Kohkichi

(with Mizumoto, Masaharu; Toyoda, Junichi) Some considerations on fuzzy automata. *Electron. Commun. Japan* 52 (1969), *no.* 7, 93-99. (A. Paz) 43 #3050

(with Mizumoto, Masaharu; Toyoda, Junichi) Some considerations on fuzzy automata. *J. Comput. System Sci.* 3 (1969), 409-422. (A. Paz) 40 #4027

(with Toyoda, Junichi; Mizumoto, Masaharu; Tsuji, Hidekazu) Fuzzy automata theory and its application to automatic controls. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 541-550. (Editors) 42 #4341

Tanaka, Masao

Estimation and testing hypotheses for one, two, or several samples from general multivariate distributions. *Ann. Math. Statist.* 41 (1970), 1999-2020. (C. hayashi) 42 #3924

Tanaka, Masatsugu

Runge-Kutta formulas with the ability of error estimation. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 13 (1966), *no.* 3, 42-62. (M. Lotkin) 40 #5139

On Kutta-Merson process and its allied processes. *Information Processing in Japan* 8 (1968), 44-52. (J. D. Lambert) 43 #4257

On Runge-Kutta type formulae with the error estimating ability. *Information Processing in Japan* 9 (1969), 9-15. (J. C. Butcher) 43 #4258

Tanaka, Minoru

Number theory and electronic computors. (Japanese) *Sûgaku* 15 (1963/64), 168-172. (K. Ono) 31 #2192

Tanaka, Motoyuki

(with Tomita, Kazuhisa) Green's function theory of magnetic relaxation. II. A ferromagnet above the Curie temperature. *Progr. Theoret. Phys.* 29 (1963), 651-674. (R. Kubo) 31 #6633

(with Tomita, Kazuhisa) Green's function theory of magnetic relaxation. III. The case of an alternant magnet. *Progr. Theoret. Phys.* 33 (1965), 1-21. (R. Kubo) 31 #6634

Tanaka, Noboru

On the equivalence problems associated with a certain class of homogeneous spaces. *J. Math. Soc. Japan* 17 (1965), 103-139. (R. Hermann) 32 #6358

Graded Lie algebras and geometric structures. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 147-150. *Nippon Hyoronsha, Tokyo,* 1966. (H. A. Eliopoulos) 36 #5852

On generalized graded Lie algebras and geometric structures. I. *J. Math. Soc. Japan* 19 (1967), 215-254. (T. Nagano) 36 #4470; erratum, 36, p. 1568

On infinitesimal automorphisms of Siegel domains. *Proc. Japan Acad.* 45 (1969), 335-338. (A. Korányi) 41 #505

On differential systems, graded Lie algebras and pseudo-groups. *J. Math. Kyoto Univ.* 10 (1970), 1-82. (H. H. Johnson) 42 #1165

(with Morimoto, Tōru) The classification of the real primitive infinite Lie algebras. *J. Math. Kyoto Univ.* 10 (1970), 207-243. (O. Loos) 42 #3133

On infinitesimal automorphisms of Siegel domains. *J. Math. Soc. Japan* 22 (1970), 180-212. (W. Kaup) 42 #7939

Tanaka, Nobutoshi

On the evaluation of error due to small signal linearization method. (Japanese. English summary) *Systems and Control* 15 (1971), 879-884. (Author's summary) 44 #3523

Tanaka, Sen-ichiro

(with Harris, W. A., Jr.) On difference equations containing a parameter. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966), 5-16. (T. A. Brown) 34 #1737

Tanaka, Shigeru

An extension of Wild's sum for solving certain non-linear equation of measures. *Proc. Japan Acad.* 44 (1968), 884-889. (Bernard Harris) 38 #6204

Tanaka, Shō

(with Hama, Mitsuru) Relativistic quantum field theory of unstable particle. *Progr. Theoret. Phys.* 26 (1961), 829-843. (PA 65 #5568) 32 #3533

(with Lassila, Kenneth E.) A dynamical derivation of approximate SU(6) symmetry. *Ann. Acad. Sci. Fenn. Ser. A VI No.* 188 (1965), 18 *pp.* (P. Tarjanne) 33 #2253

Tanaka, Shôtarô

(with Iséki, Kiyoshi) On axiom systems of propositional calculi. V. *Proc. Japan Acad.* 41 (1965), 661-662. (D. Monk) 33 #5454

On axiom systems of propositional calculi. VI. *Proc. Japan Acad.* 41 (1965), 663-666. (D. Monk) 33 #5455

On axiom systems of propositional calculi. VIII. *Proc. Japan Acad.* 41 (1965), 795-797. (From the author's introduction) 33 #3896

On axiom systems of propositional calculi. IX. *Proc. Japan Acad.* 41 (1965), 798-800. (From the author's introduction) 33 #3897

(with Iséki, Kiyoshi) On axiom systems of propositional calculi. X. *Proc. Japan Acad.* 41 (1965), 801-802. (Authors' introduction) 33 #3898

On axiom systems of propositional calculi. XIII. *Proc. Japan Acad.* 41 (1965), 904-907. (From the author's introduction) 33 #3901

Axiom systems of B-algebra. III. *Proc. Japan Acad.* 42 (1966), 23-25. (J. R. Shoenfield) 33 #5457d

(with Arai, Yoshinari; Iséki, Kiyoshi) Characterizations of BCI, BCK-algebras. *Proc. Japan Acad.* 42 (1966), 105-107. (H. B. Curry) 34 #2434

On variants of axiom systems of propositional calculus. I. *Proc. Japan Acad.* 42 (1966), 108-110; *correction ibid.* 42 (1966), *no.* 5, *loose insert.* (H. B. Curry) 34 #2435

On axiom systems of propositional calculi. XVI. *Proc. Japan Acad.* 42 (1966), 221-224. (D. Monk) 34 #1159

On axiom systems of propositional calculi. XVIII. *Proc. Japan Acad.* 42 (1966), 355-357. (R. C. Lyndon) 34 #2431b

(with Arai, Yoshinari) On axiom systems of propositional calculi. XIX. *Proc. Japan Acad.* 42 (1966), 358-360. (R. C. Lyndon) 34 #2431c

On axiom systems of propositional calculi. XX. *Proc. Japan Acad.* 42 (1966), 361-363. (R. C. Lyndon) 34 #2431d

(with Iséki, Kiyoshi) Some theorems in *B*-algebra. II. *Proc. Japan Acad.* 42 (1966), 443-445. (J. R. Shoenfield) 34 #1155

(with Setô, Yasuo) On characterizations of *I*-algebra. I. *Proc. Japan Acad.* 42 (1966), 446-447. (R. C. Lyndon) 34 #2432b

Axiom systems of *B*-algebra. VI. *Proc. Japan Acad.* 42 (1966), 448-451. (From the author's introduction) 34 #4110

On variants of axiom systems of propositional calculus. II. *Proc. Japan Acad.* 42 (1966), 452-456. (R. C. Lyndon) 34 #2432c

On characterizations of *I*-algebra. II. *Proc. Japan Acad.* 42 (1966), 759-760. (R. C. Lyndon) 34 #7337

(with Iséki, Kiyoshi) A pentavalued logic and its algebraic theory. *Proc. Japan Acad* 42 (1966), 763-764. 34 #7352

On axiom systems of propositional calculi. XXII. *Proc. Japan Acad.* 42 (1966), 873-874. (Editors) 35 #1445a

(with Arai, Yoshinari) A remark on propositional calculus with variable functors. *Proc. Japan Acad.* 42 (1966), 1056-1057. (B. Lercher) 35 #4089

On the propositional calculus with a variable functor, *CδpCδNpδq*. *Proc. Japan Acad.* 42 (1966), 1161-1163. 35 #2722

An algebraic formulation of *K-N* propositional calculus. II. *Proc. Japan Acad.* 43 (1967), 35-37. (Editors) 35 #2720

An algebraic formulation of *K-N* propositional calculus. II. *Proc. Japan Acad.* 43 (1967), 129-131. (Editors) 36 #28

On axiom systems of propositional calculi. XXV. *Proc. Japan Acad.* 43 (1967), 192-193. (Editors) 35 #6520

Axiom systems of Aristotle traditional logic. II. *Proc. Japan Acad.* 43 (1967), 194-197. (Editors) 35 #5284

An algebraic formulation of *K-N* propositional calculus. III. *Proc. Japan Acad.* 43 (1967), 723-724. (Editors) 36 #4962

On axioms of ontology. *Proc. Japan Acad.* 44 (1968), 54-55. 37 #2574

On theorems of ontology. *Proc. Japan Acad.* 44 (1968), 231-233. 37 #2575

Axiom systems of Aristotle traditional logic. IV. *Proc. Japan Acad.* 44 (1968), 340-341. (From the author's introduction) 37 #2573

An algebraic formulation of *K-N* propositional calculus. IV. *Proc. Japan Acad.* 44 (1968), 786-787. (Editors) 38 #5586

On proofs of some axioms with Sheffer functor '*D*'. *Proc. Japan Acad.* 44 (1968), 1018-1023. 38 #4276

On the proposition *CδCpqCδpδq* with a variable functor. *Proc. Japan Acad.* 45 (1969), 95-96. 39 #3962

Leśniewski's protothetics S1, S2. I. *Proc. Japan Acad.* 45 (1969), 97-101. 39 #3963

Leśniewski's protothetics S1, S2. II, III. *Proc. Japan Acad.* 45 (1969), 259-262; *ibid.* 45 (1969), 263-265. (Editors) 40 #26

On axiom systems of ontology. I. *Proc. Japan Acad.* 46 (1970), 255-257. (B. Lercher) 43 #24

Tanaka, Shun'ichi

Selberg's trace formula and spectrum. *Osaka J. Math.* 3 (1966), 205-216. (H. Heyer) 36 #312

On irreducible unitary representations of some special linear groups of the second order. I, II. *Osaka J. Math.* 3 (1966), 217-227; 229-242. (A. Kleppner) 36 #6541

On some applications of Selberg's trace formula. *Proc. Japan Acad.* 42 (1966), 327-329. (H. Heyer) 34 #7727

ε-entropy of subsets of the spaces of solutions of certain partial differential equations. *J. Math. Kyoto Univ.* 6 (1967), 313-322. (G. F. Clements) 35 #1810

Irreducible representations of the binary modular congruence groups mod p^λ. *J. Math. Kyoto Univ.* 7 (1967), 123-132. (A. M. Macbeath) 37 #5311

Construction and classification of irreducible representations of special linear group of the second order over a finite field. *Osaka J. Math.* 4 (1967), 65-84. (E. E. Shult) 36 #2714

On the construction of irreducible unitary representations of SL(2) over a self-dual field. (Japanese) *Sûgaku* 19 (1968), 225-231. (M. Saito) 43 #2163

Tanaka, Tadashi

On the connectivity structures of spaces. *J. Math. Tokushima Univ.* 2 (1968), 1-5. (S. T. Lin) 39 #6270

On the connected refinements of topologies of locally connected continua. *J. Math. Tokushima Univ.* 3 (1969), 21-24. (Anne K. Steiner) 41 #6175

Tanaka, Teruo

(with Sawaragi, Yoshikazu; Kogita, Yoshifumi) The phase plane analysis of on-off control system with series compensation. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 599-610. (Authors' summary) 42 #5680

(with Sawaragi, Yoshikazu; Uchiyama, Hironobu) The phase plane analysis of on-off control system with series compensation. II. Approximate proportional-derivative type compensation. (Japa ese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 1 (1969), 588-595. (Authors' summary) 42 #5681

(with Sawaragi, Yoshikazu; Yonezawa, Yoo; Kogita, Yoshifumi) Study on the self-oscillation in an improved on-off control system. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 263-271. (Authors' summary) 42 #5682

Tanaka, Tomoyasu

(with Morita, Tohru) Effect of *n*-spin-wave interaction on the low-temperature spontaneous magnetization. *J. Mathematical Phys.* 6 (1965), 1152-1154. (T. Arai) 31 #5620

(with Morita, Tohru) Application of the method of two-time Green's function to the spin-1/2 Heisenberg ferromagnet. *Phys. Rev.* (2) 137 (1965), A648-A658. (T. Arai) 32 #8950

(with Morita, Tohru) Statistical mechanics of an assembly of quasiparticles. *Phys. Rev.* (2) 138 (1965), A1088-A1096. (D. ter Haar) 32 #8904

(with Morita, Tohru) Application of the method of the two-time Green's function to the Heisenberg ferromagnet. II. *Phys. R* (2) 138 (1965), A1395-A1402. (T. Arai) 32 #8951

(with Morita, Tohru) Application of the method of quasipart cles to the Heisenberg ferromagnet. *Phys. Rev.* (2) 138 (1965), A1403-A1409. (T. Arai) 32 #8952

(with Moorjani, Kishin; Morita, Tohru) Application of the modified Bloch equation to the low-temperature behavior of the Heisenberg ferromagnet. *Phys. Rev.* (2) 141 (1966), 323-331. (G. A. Baker, Jr.) 33 #3711

(with Morita, Tohru) Application of the cluster variation method to the Heisenberg model with arbitrary spin and range of exchange. *Phys. Rev.* (2) 145 (1966), 288-295. (R. Kubo) 33 #37

Tanana, V. P.

The solution of Fredholm integral equations of the first kin in the space C[0,1]. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 4, 83-90. (S. G. Samko) 44 #5832

Tănăsescu, Aurelian

The descriptive aspect of interpretation of Lobacevski's geo etry on a hyperboloid with two sheets. (Russian, French and Germa summaries) *Bul. Inst. Politehn. Bucureşti* 25 (1963), *no.* 2, 25-3 (Author's summary) 31 #5138

Über ein bizentrales Projektionssystem mit zwei beliebigen Grundflächen. (English, French and Russian summaries) *Bul. Inst. Politehn. Bucureşti* 26 (1964), *fasc.* 3, 35-54. (L. Gyarmathi) 33 #615

(with Theodorescu, R.) Graphische Lösung der Matrizialspiel von der Grössenordnung 3 × *n*. (Russian and French summaries) *Bul Inst. Politehn. Bucureşti* 29 (1967), *no.* 6, 43-53. (G. Owen) 37 #2535

Über eine spezielle Netzprojektion. (Russian, English and French summaries) *Bul. Inst. Politehn. Bucureşti* 30 (1968), *no.* 3-4, 57-66. (Author's summary) 40 #6425

Perspektivdeutung einer speziellen hyperbolischen oder parabolischen Netzprojektion. *Publ. Math. Debrecen* 16 (1969), 149-153. (H. Lenz) 42 #8405

Tănăsescu, Constantin

Some applications of Boolean equations in the algebraic theo of grammars. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1357-1365. 40 #5365

Tandai, Kwoichi

On connections of geometric structures. *Proc. Japan Acad.* 44 (1968), 32-34. (S. Takizawa) 37 #4741

Tandon, Jagdish Narain

(with Bajaj, N. K.) Hydromagnetic stability of two superposed plasma columns with anisotropic pressure. *Z. Physik* 187 (1965), 351-354. (R. C. Mjolsness) 32 #8667

Tandori, Károly

Über die Konvergenz der Orthogonalreihen. II. *Acta Sci. Mat (Szeged)* 25 (1964), 219-232. (J. Mitchell) 30 #1350

Über ein Problem von S. B. Stetschkin. *Acta Sci. Math. (Szeged)* 26 (1965), 75-78. (R. A. Askey) 31 #1514

Bemerkung zur Konvergenz der Orthogonalreihen. *Acta Sci. Ma (Szeged)* 26 (1965), 249-251. (K. Endl) 33 #3041

Ein neues Beispiel für eine stetige Funktion mit in einem Punkt divergierender Fourierreihe. *Ann. Univ. Sci. Budapest. Eöt Sect. Math.* 8 (1965), 17-20. (Y. M. Chen (Zbl 143, 84)) 41 #7

Über die Konvergenz der Orthogonalreihen. III. *Publ. Mat Debrecen* 12 (1965), 127-157. (J. Mitchell) 32 #6137 (E)

Über die Divergenz der Walshschen Reihen. *Acta Sci. Math. (Szeged)* 27 (1966), 261-263. (J. J. Price) 34 #8075

Beitrag zu der Arbeit "Über die Konvergenz der Orthogonalre III". *Publ. Math. Debrecen* 13 (1966), 307-311. (J. Mitchell) 3 #6425 (E)

Ergänzung zu einem Satz von S. Kaczmarz. *Acta Sci. Math. (Szeged)* 28 (1967), 147-153. (L. Lorch) 35 #7072

Bemerkung zur Divergenz der Fourierreihen. *Acta Sci. Math. (Szeged)* 28 (1967), 281-283. (P. G. Rooney) 36 #3061

Convergence problems of orthogonal series. (Hungarian) *Magy Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 59-66. (L. Leindler) 35 #7071

Bemerkung zur starken Summation der Fourierreihen. *Acta Mat Acad. Sci. Hungar.* 19 (1968), 271-285. (S. M. Shah) 37 #6679 (with Móricz, Ferenc) On a problem of summability of orthogonal series. *Acta Sci. Math. (Szeged)* 29 (1968), 331-350. (A. Meir) 39 #3185

Berichtigung zur Arbeit: "Über die starke Summation von Fourierreihen". *Acta Sci. Math. (Szeged)* 29 (1968), 351. (Editors) 38 #1470

To György Alexits on his 70th birthday. (Hungarian) *Mat. Lapok* 19 (1968), 221-238. (Editors) 39 #5304

Abschätzungen vom Menchoff-Rademacherschen Typ für die Summen von orthogonalen Funktionen. *Studia Sci. Math. Hungar.* 3 (1968), 325-336. (R. Liedl) 37 #6641

Eine Bemerkung zum Konvergenzproblem der Orthogonalreihen. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 315-322. (A. E. Danese) 40 #3161

Über die Reflexivität gewisser Banachräume. *Acta Sci. Math. (Szeged)* 30 (1969), 39-42. (T. L. Hicks) 40 #704

Ein Divergenzsatz für Fourierreihen. *Acta Sci. Math. (Szeged)* 30 (1969), 43-48. (Yung-ming Chen) 39 #7342

Berichtigung zu den Arbeiten: "Über die Konvergenz der Orthogonalreihen. III" und "Beitrag zu der Arbeit 'Über die Konvergenz der Orthogonalreihen. III'". *Publ. Math. Debrecen* 16 (1969), 343. (Editors) 41 #5870

Tanenbaum, B. Samuel

Fields produced by a current source in a partly ionized gas. *J. Appl. Phys.* 36 (1965), 1288-1290. (L. J. F. Broer) 31 #5440

Taner, Tuğrul

Une caractérisation des fonctions algébriques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A11-A12. (Y. Kusunoki) 38 #4675

Tang, C. K.

(with Langdon, G. G., Jr.) Concurrent error detection for group look-ahead binary adders. *IBM J. Res. Develop.* 14 (1970), 563-573. (J. Kuntzmann) 42 #1373

Tang, C. L.

(with Deutsch, T. F.) Generation of anti-Stokes radiation in the higher order coherent Raman processes. *Phys. Rev.* (2) 138 (1965), A1-A8. (L. B. Wetzel) 32 #3447

Tang, C. Y.

An existence theorem for generalized direct products with amalgamated subgroups. *Canad. J. Math.* 18 (1966), 75-82. (Hanna Neumann) 32 #4181

On uniqueness of generalized direct decompositions. *Pacific J. Math.* 23 (1967), 171-182. (B. H. Neumann) 36 #278

Notes on splitting extensions of groups. *Canad. Math. Bull.* 11 (1968), 371-374. (I. B. S. Passi) 38 #2215 (E)

Correction to: "Notes on splitting extensions of groups". *Canad. Math. Bull.* 12 (1969), 681. (Editors) 40 #1481

On uniqueness of central decompositions of groups. *Pacific J. Math.* 33 (1970), 749-761. (B. H. Neumann) 42 #381

(with Doković, Dragomir Ž.) On the Frattini subgroup of the generalized free product with amalgamation. *Proc. Amer. Math. Soc.* 32 (1972), 21-23. (D. J. S. Robinson) 44 #6844

Tang, D. T.

Bi-path networks and multicommodity flows. *IEEE Trans. Circuit Theory* CT-11 (1964), 468-474. (E. L. Johnson) 31 #3227

(with Chien, R. T) On definitions of a burst. *IBM J. Res. Develop.* 9 (1965), 292-293. (W. W. Peterson) 31 #5726

Dual codes as variable redundancy codes. *IEEE Internat. Convention Record* 1965, *pt.* 7, 220-226. (R. J. McEliece) 38 #1941

(with Lum, V. Y.) On the detection capability of nonbinary codes using permutation mappings. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 482-490. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8143

(with Chien, R. T.; Bahl, L. R.) Correction of two erasure bursts. *IEEE Trans. Information Theory* IT-15 (1969), 186-187. 39 #2505

(with Lum V. Y.) Error control for terminals with human operators. *IBM J. Res. Develop.* 14 (1970), 409-416. (Authors' summary) 42 #4310

(with Bahl, L. R.) Block codes for a class of constrained noiseless channels. *Information and Control* 17 (1970), 436-461. (Authors' summary) 42 #7403

Tang, G. S.

(with Teh, H. H.) A remark on the relation between groupoid semirings and matrix semirings. *Nanta Math.* 1 (1966/67), 38-39. (D. A. Robinson) 37 #260

Tang, Irving C.

Some definite integrals and Fourier series for Jacobian elliptic functions. *Z. Angew. Math. Mech.* 49 (1969), 95-96. (B. C. Carlson) 41 #516

A simple algorithm for solving linear equations of a certain type. *Z. Angew. Math. Mech.* 49 (1969), 508. (Editors) 40 #2224

Tang, Li-min. See T'ang Li-min.

Tang, Shen-chi

A determinantal inequality in Hilbert space. *Collect. Math.* 17 (1965), 101-104. (From the author's introduction) 34 #4285

A theorem on Riesz summability $(R,\omega,2)$ on Banach space. *Compositio Math.* 17, 167-171 (1965). (L. Leindler) 34 #4751

Tang, Ting-wei

Mode conversion in a weakly inhomogeneous collisionless magnetoplasma. *Phys. Fluids* 13 (1970), 121-135. (K. Imre) 41 #4985

Tang, Victor Kuang-Tao

(with Birnbaum, Z. W.) Two simple distribution-free tests of goodness of fit. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 2-13. (M. Katz) 31 #2801

T'ang Chao-ch'ien

The vibration modes and eigenfrequencies of circular conical (and cylindrical) shells. *Sci. Sinica* 13 (1964), 1189-1210. (L. S. D. Morley) 30 #4429

Tang Chao-tsien. See T'ang Chao-ch'ien.

T'ang Chih-sung

Recursiveness of systems of computer instructions. *Acta Math. Sinica* 15 (1965), 842-860 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 577-597. (J. Florentin) 33 #3848

A recursive theory of computer instructions. *Sci. Sinica* 14 (1965), 1229-1232. (M. Gross) 35 #1475

A class of self-reproducing Turing machines. (Chinese) *Shuxue Jinzhan* 9 (1966), 268-273. 38 #3094

Tange, Hidetaka

(with Udagawa, Kanehisa; Inagaki, Yasuyoshi) The state characteristic equations of finite automata and their regular expressions. *Electron. Commun. Japan* 48 (1965), *no.* 9, 25-36. (S. Kuzino) 34 #8897

Tangeman, R. L.

(with Leavitt, W. G.) On Sasiada's ring. *J. London Math. Soc.* (2) 1 (1969), 61-63. (S. Williamson) 39 #5630 (E)

(with Leavitt, W. G.) Corrigendum: "On Sasiada's ring". *J. London Math. Soc.* (2) 2 (1970), 32. (Editors) 40 #4291

Tangherlini, Frank R.

Source of the Schwarzschild field. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 153-174. (L. Witten) 33 #2389

Guage subtraction method for Einstein's pseudotensor. *Phys. Lett.* 18 (1965), 271-273. (P. C. Vaidya) 32 #987

T'ang Li-min

(with Sun Huan-shui) Three-dimensional elasticity problems solved by complex variable method. *Sci. Sinica* 12 (1963), 1627-1649. (D. R. Bland) 31 #1808

Tangora, Martin C.

(with Mahowald, Mark) On secondary operations which detect homotopy classes. *Bol. Soc. Mat. Mexicana* (2) 12 (1967), 71-75. (A. K. Bousfield) 40 #4948

(with Mahowald, Mark) Some differentials in the Adams spectral sequence. *Topology* 6 (1967), 349-369. (J. F. Adams) 35 #4924

* (with Mosher, Robert E.) Cohomology operations and applications in homotopy theory. *Harper & Row, Publishers, New York-London,* 1968. x + 214 *pp.* (Larry Smith) 37 #2223

(with Mahowald, Mark) An infinite subalgebra of $\mathrm{Ext}_A(Z_2,Z_2)$. *Trans. Amer. Math. Soc.* 132 (1968), 263-274. (Larry Smith) 36 #5937

On the cohomology of the Steenrod algebra. *Math. Z.* 116 (1970), 18-64. (Larry Smith) 42 #1112

(with Barratt, M. G.; Mahowald, M. E.) Some differentials in the Adams spectral sequence. II. *Topology* 9 (1970), 309-316. (J. F. Adams) 42 #1122

Tang Sung-shih

On the imbedding theorems of a class of function spaces. *Acta Math. Sinica* 13 (1963), 433-440 *(Chinese); translated as Chinese Math.* 4 (1964), 470-477. (J. Albrycht) 29 #458

Two theorems on univalent functions. (Chinese) *Shuxue Jinzhan* 7 (1964), 431-432. (C. C. Wu) 38 #2295

Tang Zhi-song. See T'ang Chih-sung.

Tani, Mariko. See Konishi, Mariko.

Tani, Smio

(with Uhlenbrock, D. A.) Hard core produced by orthogonality constraints. *J. Mathematical Phys.* 3 (1962), 1161-1170. (S. Rosendorff) 29 #1914

(with Chen, A.; Borowitz, S.) Method of orthogonality constraint and rearrangement collisions. *Phys. Rev.* (2) 137 (1965), B236-B244. (M. H. Mittleman) 33 #1001

Padé approximant in potential scattering. *Phys. Rev.* (2) 139 (1965), B1011-B1020. (G. A. Baker, Jr.) 32 #8754

Tani Corsi, Gabriella

Sul problema della determinazione dei *p*-gruppi regolari il cui reticolo dei sottogruppi pienamente invarianti è un insieme semplicemente ordinato. *Matematiche (Catania)* 19 (1964), 50-62. (L. A. Rosati) 31 #1301

Sui sistemi minimi di assiomi atti a definire un piano grafico finito. *Rend. Sem. Mat. Univ. Padova* 34 (1964), 160-175. (J. A. Todd) 29 #5138

Sui centralizzanti dei sottogruppi normali abeliani dei 2-gruppi. *Matematiche (Catania)* 20 (1965), 137-141. (G. Zappa) 33 #193

Sui commutatori nei gruppi il cui derivato è prodotto diretto di gruppi ciclici. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 253-259. (W. E. Jenner) 32 #7637

Sui gruppi finiti in cui ogni sottogruppo subnormale proprio è a sottogruppo di Frattini identico. *Matematiche (Catania)* 21 (1966), 131-134. (G. E. Wall) 33 #7403

Una caratterizzazione dei gruppi finiti a derivato nilpotente in cui ogni sottogruppo subnormale proprio ha sottogruppo di Frattini identico. *Matematiche (Catania)* 22 (1967), 19-23. (G. E. Wall) 35 #6751

Automorfismi dei 2-gruppi finiti che lasciano fissi gli elementi di un sottogruppo abeliano elementare massimo. *Matematiche (Catania)* 23 (1968), 166-179. (H. Lausch) 39 #2861

Taniguchi, Hajime

Some examples of differentiable sphere bundles. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 477-495 (1970). (J. Eells) 41 #9281

Taniguchi, Kenichi

(with Tokura, Nobuki; Kasami, Tadao; Ozaki, Hiroshi) Logical functions realizable by a planar NAND network. *Electron. Commun. Japan* 51 (1968), *no.* 2, 91-99. (B. Hazeltine) 40 #8512

(with Kasami, Tadao) Some decision problems of formal languages. *Electron. Commun. Japan* 51 (1968), *no.* 5, 151-158. (J. Hopcroft) 44 #3809

(with Kasami, Tadao) A note on computing time for the recognition of context-free languages by a single-tape Turing machine. *Information and Control* 14 (1969), 278-284. (Authors' summary) 40 #5353

(with Kasami, Tadao) Reduction of context-free grammars. *Information and Control* 17 (1970), 92-108. (Authors' summary) 42 #7455

Tanikawa, Yasutaka

(with Itami, Kunio; Nakamura, Seitaro; Mugibayashi, Nobumichi) On the intermediate boson hypotheses of weak interactions. *Progr. Theoret. Phys.* 32 (1964), 301-305. (T. Kinoshita) 31 #4434

Tanimura, Isao

(with Machida, Toichi; Shinozaki, Toshio) Open- and short-circuit analysis of networks with applications to the element deviation problem. *Electron. Commun. Japan* 51 (1968), *no.* 5, 26-34. (B. Hazeltine) 40 #7028

Tanimura, Yosikatu

Some generalization of the Galois theory. II. (Japanese summary) *Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci.* 3 (1962/63), 173-175. (G. Azumaya) 31 #5867

Euclidean algorithm in quadratic field. II. (Japanese summary) *Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci.* 3 (1964/65), 339-345. (J. W. S. Cassels) 34 #164

Euclidean algorithm in quadratic field. III. (Japanese summary) *Sci. Rep. Fac. Ed. Gifu Univ. Natur. Sci.* 4 (1967), 13-18. (J. W. S. Cassels) 43 #183

Euclidean algorithm in cubic field. I. (Japanese summary) *Sci. Rep. Fac. Ed. Gifu Univ. Natur. Sci.* 4 (1969), 135-137. (From the author's introduction) 41 #3434

Taniuti, Tosiya

* (with Jeffrey, A.) Non-linear wave propagation. With applications to physics and magnetohydrodynamics. *Academic Press, New York-London,* 1964. ix + 369 *pp.* (L. Sirovich) 29 #4410

(See also Magnetohydrodynamic stability and thermonuclear containment, 33 #7063)

(with Yajima, Nobuo; Outi, Akizi) A model of the dispersive non-linear equation. *Progr. Theoret. Phys.* 35 (1966), 1142-1153. (Authors' summary) 34 #7947

(with Yajima, Nobuo) Perturbation method for a nonlinear wave modulation. I. *J. Mathematical Phys.* 10 (1969), 1369-1372. (G. Power) 40 #4584

(with Asano, Naruyoshi) Reductive perturbation method for nonlinear wave propagation in inhomogeneous media. I. *J. Phys. Soc. Japan* 27 (1969), 1059-1062. (P. Germain) 40 #6841

(with Imamura, Tsutomu; Sugihara, Ryo) An asymptotic method for the Vlasov equation. *J. Phys. Soc. Japan* 27 (1969), 1623-1630. (Authors' summary) 40 #6905

An asymptotic method for the Vlasov equation. II. *J. Phys. Soc. Japan* 27 (1969), 1634-1639. (Author's summary) 40 #6906

(with Asano, Naruyoshi) Reductive perturbation method for nonlinear wave propagation in inhomogeneous media. II. *J. Phys. Soc. Japan* 29 (1970), 209-214. (P. Germain) 42 #3433

Tan Kai-di

Different proofs of Desargues' theorem. *Math. Mag.* 40 (1967), 14-25. (L. M. Kelly) 34 #4967

Tankeev, S. G.

n-dimensional canonically polarized varieties, and varieties of basic type. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 31-44. (J.-E. Bertin) 43 #3261

Tanner, D. A.

On the solitary wave in a viscous fluid. *Quart. J. Mech. Ap Math.* 24 (1971), 207-220. (D. R. Breach) 43 #8295

Tanner, J. C.

The capacity of an uncontrolled intersection. *Biometrika* 54 (1967), 657-658. (Author's summary) 36 #4659

Tanner, Rosalind C. H.

Thomas Harriot as mathematician. A legacy of hearsay. I, II. (Italian summary) *Physis—Riv. Internaz. Storia Sci.* 9 (1967), 235-247; *ibid.* 9 (1967), 257-292. (J. A. Lohne) 41 #5163

Tannery, M^{me} Paul

(See Correspondance du P. Marin Mersenne, religieux minime. VIII, 29 #4660)

Tanno, Shûkichi

On fiberings of some non-compact contact manifolds. *Tôhoku Math. J.* (2) 15 (1963), 289-297. (W. M. Boothby) 29 #550

(with Morimoto, Akihiko) Transformation groups of almost contact structures. (Japanese) *Sûgaku* 16 (1964), 46-54. (T. Nagano) 29 #6453

A remark on transformations of a K-contact manifold. *Tôhoku Math. J.* (2) 16 (1964), 173-175. (W. M. Boothby) 30 #2430

Almost complex structures in bundle spaces over almost contac manifolds. *J. Math. Soc. Japan* 17 (1965), 167-186. (T. J. Willmore) 32 #1639

An almost complex structure of the tangent bundle of an almos contact manifold. *Tôhoku Math. J.* (2) 17 (1965), 7-15. (S. Kobayashi) 33 #4846

A theorem on regular vector fields and its applications to almost contact structures. *Tôhoku Math. J.* (2) 17 (1965), 235-238. (A. Morimoto) 32 #3009

Sur une variété munie d'une structure de contact admettant certaines transformations. *Tôhoku Math. J.* (2) 17 (1965), 239-243. (A. Morimoto) 33 #658

Partially conformal transformations with respect to $(m-1)$-dimensional distributions of m-dimensional Riemannian manifolds. *Tôhoku Math. J.* (2) 17 (1965), 358-409. (S. Kobayashi) 34 #758

Sur une variété de K-contact métrique de dimension 3. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A317-A319. (Y. Tashiro) 34 #6701

A conformal transformation of certain contact Riemannian manifolds. *Tôhoku Math. J.* (2) 18 (1966), 270-273. (M. C. Chaki) 34 #5035

Partially conformal transformations with respect to $(m-1)$-dimensional distributions of m-dimensional Riemannian manifolds. II *Tôhoku Math. J.* (2) 18 (1966), 378-392. (S. Kobayashi) 34 #6694

Harmonic forms and Betti numbers of certain contact Riemannian manifolds. *J. Math. Soc. Japan* 19 (1967), 308-316. (J. Eells) 35 #3604

Curvature-preserving transformations of K-contact Riemannian manifolds. *Kōdai Math. Sem. Rep.* 19 (1967), 156-158. (T. K. Pan) 36 #2088

Topology of compact Sasakian manifolds. *Proc. Japan Acad.* 43 (1967), 423-425. (R. L. Bishop) 38 #6625

Locally symmetric K-contact Riemannian manifolds. *Proc. Japan Acad.* 43 (1967), 581-583. (R. Behari) 37 #861

Strongly curvature-preserving transformations of pseudo-Riemannian manifolds. *Tôhoku Math. J.* (2) 19 (1967), 245-250. (K. Nomizu) 36 #3284

The topology of contact Riemannian manifolds. *Illinois J. Math.* 12 (1968), 700-717. (R. L. Bishop) 38 #2803

(with Weber, Waldemar C.) Closed conformal vector fields. *J. Differential Geometry* 3 (1969), 361-366. (T. Okubo) 41 #6111

Transformations of pseudo-Riemannian manifolds. *J. Math. Soc. Japan* 21 (1969), 270-281. (H. D. Pande) 39 #2101

Isometric immersions of Sasakian manifolds in spheres. *Kōdai Math. Sem. Rep.* 21 (1969), 448-458. (T. Ohkubo) 41 #6120

} Sasakian manifolds with constant ϕ-holomorphic sectional curvature. *Tôhoku Math. J.* (2) 21 (1969), 501-507. (S. Takizawa) 40 #4894

The automorphism groups of almost Hermitian manifolds. *Trans. Amer. Math. Soc.* 137 (1969), 269-275. (C. S. Houh) 38 #5144

Automorphism groups of almost contact Riemannian manifolds and Betti numbers. *Sem. on Contact Manifolds (Kyoto, 1969), pp.* 19-41. *Publications of the Study Group of Geometry, Vol.* 4. *Dept. Math., Okayama Univ., Okayama,* 1970. (R. L. Bishop) 42 #1011

On the isometry groups of Sasakian manifolds. *J. Math. Soc. Japan* 22 (1970), 579-590. (N. J. Hicks) 42 #6755

Betti numbers and scalar inequalities. *Math. Ann.* 190 (1970/71), 135-148. (K. Yano) 42 #8422

(with Sekigawa, Kouei) Sufficient conditions for a Riemannian manifold to be locally symmetric. *Pacific J. Math.* 34 (1970), 157-162. (Y. Katsurada) 42 #2392

Analytic transformations preserving the Chern's 2-form. *Tensor (N.S.)* 21 (1970), 373-376. (T. Ohkubo) 41 #7601

(with Baik, Yong-bai) ϕ-holomorphic special bisectional curvature. *Tôhoku Math. J.* (2) 22 (1970), 184-190. (R. Behari) 42 #3726

(with Takahashi, Toshio) Some hypersurfaces of a sphere. *Tôhoku Math. J.* (2) 22 (1970), 212-219. (A. Fialkow) 42 #3719

Quasi-Sasakian structures of rank $2p + 1$. *J. Differential Geometry* 5 (1971), 317-324. (A. Morimoto) 44 #5889

(The sign } indicates an entry in the supplement.)

A class of Riemannian manifolds satisfying $R(X,Y)\cdot R = 0$. *Nagoya Math. J.* 42 (1971), 67-77. (R. L. Bishop) 44 #3246

Curvature tensors and non-existence of Killing vectors. *Tensor (N.S.)* 22 (1971), 387-394. (G. Tsagas) 44 #7476

Killing vectors on contact Riemannian manifolds and fiberings related to the Hopf fibrations. *Tôhoku Math. J.* (2) 23 (1971), 313-333. (Ph. Tondeur) 44 #4681

Tanno, Yûkichi

On the convolution transform. IV. *Sci. Rep. Fac. Sci. Hirosaki Univ.* 12 (1965), 13-21. (I. I. Hirschman, Jr.) 34 #3234

On a class of convolution transforms. *Tôhoku Math. J.* (2) 18 (1966), 156-173. (I. I. Hirschman, Jr.) 33 #7795

On a class of convolution transform. II. *Tôhoku Math. J.* (2) 19 (1967), 168-186. (I. I. Hirschman, Jr.) 36 #4275

On dual integral equations as convolution transforms. *Tôhoku Math. J.* (2) 20 (1968), 554-566. (B. L. Sharma) 40 #652

Tanrikulu, Mahmut

(with Prager, William) On the construction of Hermitian from Lagrangian difference approximations. *Quart. Appl. Math.* 24 (1967), 371-373. (W. Sibagaki) 36 #1124

Tanturri, Giuseppe

Reti di curve piane algebriche con jacobiana riducibile. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 557-563. (P. Du Val) 31 #1602

Costruzione delle reti di coniche aventi una data Jacobiana irriducibile. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 102 (1967/68), 453-463. (P. Du Val) 40 #4266

Tanzi Cattabianchi, Luigi

Alcuni criteri di non prolungabilità per le serie di potenze. *Riv. Mat. Univ. Parma.* (2) 3 (1962), 169-191. (S. Mandelbrojt) 29 #219

Numeri e polinomi di Bernoulli parametrizzati. *Riv. Mat. Univ. Parma* (2) 4 (1963), 281-291. (A. E. Danese) 32 #1378

(with Skof, Fulvia) Variazioni di segno condizionate e presenza di un punto singolare su un arco. *Riv. Mat. Univ. Parma* (2) 5 (1964), 233-288. (M. E. Noble) 35 #351

Su alcune classi di equazioni alle differenze finite, lineari. *Riv. Mat. Univ. Parma* (2) 6 (1965), 263-271. (A. Halanay) 36 #1860

(with Carra, Edgardo) Sulle definizioni di alcune funzioni elementari notevoli del calcolo delle differenze finite. (English summary) *Riv. Mat. Univ. Parma* (2) 8 (1967), 221-233. (Y. H. Clifton) 40 #3091

Tao, Hung Sheng. See Sheng, Hung Tao.

Tao, L. N.

On the variational principle and Lagrange equations in studies of gasdynamic lubrication. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 43-46. (N. Tipei) 29 #4360

On variational principles for electromagnetic theory. *J. Mathematical Phys.* 7 (1966), 526-530. (Olov Einarsson) 32 #6867

Tao, Loo Tsu. See Lo Tsu-tao.

T'ao Hui-min

The maximal nonsemisimple subalgebra of a noncompact real semisimple Lie algebra. *Acta Math. Sinica* 16 (1966), 253-268 *(Chinese); translated as Chinese Math.— Acta* 8 (1966), 265-282. (S. Murakami) 34 #7732

T'ao Yun

On the convergence of the perturbation series in an attractive Fermi-system. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 294-298. (Y. Nogami) 34 #2301

Tapfer, J.

(with Mullari, R.) An inversion method for balance matrices. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 159-164. (A. S. Householder) 33 #8090

Tapia, M. A.

(with Myers, B. R.) Generation of concave node-weighted trees. *IEEE Trans. Circuit Theory* CT-14 (1967), 229-230. (I. T. Frisch) 43 #100

Tapia, Richard A.

An application of a Newton-like method to the Euler-Lagrange equation. *Pacific J. Math.* 29 (1969), 235-246. (J. W. Daniel) 40 #3713

The weak Newton method and boundary value problems. *SIAM J. Numer. Anal.* 6 (1969), 539-550. (M. Z. Nashed) 41 #9439

(with Evans, J. W.) Hamel versus Schauder dimension. *Amer. Math. Monthly* 77 (1970), 385-388. (M. V. Subbarao) 41 #4203

The differentiation and integration of nonlinear operators. *Nonlinear Functional Anal. and Appl. (Proc. Advanced Sem., Math. Res. Center, Univ. of Wisconsin, Madison, Wis.,* 1970*), pp.* 45-101. *Academic Press, New York,* 1971. (L. B. Rall) 44 #3160

Tapley, B. D.

(with Lewallen, J. M.) Comparison of several numerical optimization methods. *J. Optimization Theory Appl.* 1 (1967), *no.* 1, 1-32. (Authors' summary) 35 #7596

Tappert, F. D.

(with Varma, C. M.) Asymptotic theory of self-trapping of heat pulses in solids. *Phys. Rev. Lett.* 25 (1970), 1108-1111. (J. F. Heyda) 42 #5526

Tar, L.

Eine Verallgemeinerung des Satzes von Szegő über die Hankelschen Determinanten. *Publ. Math. Debrecen* 11 (1964), 149-159. (H. Widom) 30 #2266

Tar, M. M.

A certain criterion for the analyticity of a function of a complex variable. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 417-421. (K. Tarumoto) 40 #310

Tarafdar, E.

(with Chaudhuri, A. K.) On certain properties of mappings. *J. Indian Math. Soc. (N.S.)* 29 (1965), 101-107. (E. Duda) 32 #1678

(with Chaudhuri, A. K.) A note on extreme points. *Amer. Math. Monthly* 74 (1967), 405-406. (G. E. Strecker) 35 #982

(with Chaudhuri, A. K.) Certain properties of extreme points. *Indian J. Mech. Math.* 5 (1967), 109-114. (Edwin Duda) 39 #6275

A note on extreme points. *Indian J. Mech. Math.* 7 (1969), 15-17. (G. L. Cain, Jr.) 42 #1046

Extreme points and characterisation of quasi-open and quasi-compact mappings. *J. Indian Math. Soc. (N.S.)* 33 (1969), 93-100 (1970). (Edwin Duda) 42 #6796

Tarakanov, V. E.

The maximal depth of a class of (0,1)-matrices. (Russian) *Mat. Sb. (N.S)* 75(117) (1968), 4-14. (L. Mirsky) 36 #5012

Correlations of maximal depths of classes of square (0,1)-matrices for different parameters. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 59-70. (D. Ž. Djoković) 37 #6201

(See also Hall, Marshall, Jr., 42 #4411)

(with Sarmanov, O. V.; Sevast'janov, B. A.) Certain combinatorial identities. (Russian) *Mat. Zametki* 11 (1972), 121-127. (J. B. Roberts) 44 #6512

Taran, V. A.

(with Emel'janov, S. V.; Utkin, V. I.) Hitting of the sliding plane by a representing point in systems with variable structure. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965*, no.* 3, 132-138. (H. A. Antosiewicz) 33 #2435

Taranov, A. M.

Some iterative methods of solution of systems of linear algebraic equations with assured convergence. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 643-654. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (M. Urabe) 33 #5111

Tarapov, I. E.

A diffraction problem for a grating of arbitrary profiles. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965)*, no.* 5, 883-893. (R. N. Goss) 33 #6972

Tarasenko, L. N.

A certain method of the numerical solution of boundary value problems. (Russian) *Mathematical Physics, No.* 5 (1968) *(Russian), pp.* 183-187. *Naukova Dumka, Kiev,* 1968. (J. Milota) 42 #2693

Tarasenko, V. P.

(with Kutuzov, V. A.) The effect of noise on the operation of step-type extremal systems with variable parameters. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 268-276. (Authors' summary) 30 #3776

(with Medvedev, G. A.) Вероятностные методы исследования экстремальных систем. (Russian) [Probabilistic methods of investigation of extremal systems] *Izdat. "Nauka", Moscow,* 1967. 456 *pp.* *(1 foldout)* (K. Dietz) 36 #4911

(with Korneĭčuk, V. I.) Synthesis of combinational adders from multivalued functional elements. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968*, no.* 3, 80-85 *(Russian); translated as Engrg. Cybernetics* 1968*, no.* 3, 67-72 (1969). (B. Hazeltine) 39 #3908

(with Korneĭčuk, V. I.) Comparison schemes of multidigit codes. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969*, no.* 5, 81-83 *(Russian); translated as Engrg. Cybernetics* 1969*, no.* 5, 73-76 (1970). (Authors' summary) 43 #5985

(with Korneĭčuk, V. I.; Romankevič, A. M.) A certain method of realization of symmetric multivalued functions. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 13 (1970), 1259-1263. (C. G. d'Ambly) 44 #3780

Taraskin, A. F.

The asymptotic normality of stochastic vector integrals and estimates of the translation parameters of a multidimensional diffusion processs. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 205-220. (K. Jacobs) 44 #1116

Tarasov, B. V.

On free associative algebras. (Russian) *Algebra i Logika* 6 (1967)*, no.* 4, 93-105. (S. E. Dickson) 37 #2794

Tarasov, E. V.

Mathematical theory of the optimization of the control and parameters of an object in the presence of discontinuities of its phase coordinates for motion in various phase spaces. (Russian. English summary) *Trudy Univ. Družby Narod.* 17 (1966), *vyp.* 4, 85-142. (A. Halanay) 35 #1382

Tarasov, I. S.

The inductive theory of non-commutative determinants. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 152-161. (Z. Janko) 29 #2278

Tarasov, V. A.

Estimate of the maximum of the modulus of bounded generalized solutions of second order quasilinear elliptic equations in an unbounded region with principal part in divergence form. (Russian) *Novgorod. Golovn. Gos. Ped. Inst. Učen. Zap.* 7 (1966), 48-53. (A. Friedman) 37 #3179

(with Oskolkov, A. P.) On a priori estimates of the first derivatives of solutions to the Dirichlet problem for quasilinear elliptic equations in an unbounded region. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 7, 58-62. (A. Langenbach) 33 #7681

A priori weighted estimates of solutions of the Dirichlet problem for quasilinear elliptic equations in an unbounded region. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 38-49. (A. Haimovici) 37 #6589

Weighted estimates of the maximum of the absolute value and of Hölder's constant of generalized solutions of quasilinear elliptic equations in an unbounded region. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 50-66. (A. Haimovici) 37 #6590

Weighted estimates of the first derivatives of the solutions of the Dirichlet problem for nonuniformly elliptic nondivergence quasilinear equations in an unbounded region. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1875-1880. (L. K. Jackson) 41 #642

Tarasov, V. F.

(with Čanyšev, S. M.) The mathematical expectation of different powers of the radius and the symmetry of an Appell function. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 2, 22-27. (J. Wiesner) 44 #5029

(with Čanyšev, S. M.) Calculation of the matrix elements $\langle nl|r^k|n'l'\rangle$ with the help of Appell functions. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 2, 27-35. (J. Wiesner) 44 #5030

Tardy, J. C.

* (with Bonnet, M.; Julg, A.; Queffelec, J. F.) Tables d'intégrals moléculaires (orbitales de couches 2 et 3). Tome I: Intégrales hybrides; Tome II: Intégrales de recouvrement et de coeur. Intégrales cinétiques. Intégrales coulombiennes. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1968. *Vol. I:* 224 *pp.; Vol. II:* 242 *pp.* 43 #4399

Targhetta, Maria Luisa

Tempi di estinzione in processi stocastici di nascita-morte. (English summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 35 (1965), 124-130. (Author's summary) 32 #8415

Costruzione e computo delle partizioni di un numero naturale. (English summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 37 (1967), 1-7. (W. G. Brown) 37 #2668

Serie stocastiche. (French summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 37 (1967), 39-49. (M. Iosifescu) 37 #4857

Alcune conseguenze di una rappresentazione di Weierstrass delle superficie di area minima. (French summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 37 (1967), 51-55. (K. Strubecker) 37 #2105

Sulla divergenza della serie dei reciproci dei numeri primi. (French summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 37 (1967), 171-173. 37 #5146

Condizione di rinnovamento e valori medi per variabili casuali con significato di durata. (English summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 38 (1968), 35-43. 38 #3931

Un problema Bayesiano di probabilità a priori. (English summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 38 (1968), 101-125. (P. Fortunati) 38 #6707

Valori medi e mediane di ordine superiore in diseguaglianze generalizzate di Chebyshev. (English summary) *Rend. Sem. Fac. Sci.*
} *Univ. Cagliari* 39 (1969), 221-225. (Z. W. Birnbaum) 41 #6270

Targonski, György I.

(with Misra, B.; Speiser, D.) Integral operators in the theory of scattering. *Helv. Phys. Acta* 36 (1963), 963-980. (S. T. Kuroda) 29 #922

Schröder's equation and a generalization of the Chebyshev polynomials. *Trans. New York Acad. Sci.* (2) 27 (1964/65), 600-606. (I. N. Baker) 32 #1470

* Seminar on functional operators and equations. Forschungsinstitut für Mathematik, ETH, Zürich, October 1965-July 1966. Lecture Notes in Mathematics, No. 33. *Springer-Verlag, Berlin-New York,* 1967. iii + 110 pp. (I. Fenyő) 36 #744

Convergence theorems derived from the theory of Carleman integral operators. *Compositio Math.* 18, 148-154 (1967). (S. Goldberg) 36 #3176

Zur Klassifizierung der linearen Operatoren auf Funktionenalgebren. *Math. Z.* 97 (1967), 238-250. (M. Kuczma) 35 #3308

On Carleman integral operators. *Proc. Amer. Math. Soc.* 18 (1967), 450-456. (J. W. Neuberger) 35 #5982

(with Kuczma, Marek) On a pre-Schröder equation. *Bull. Aca Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 721-724. (Z. Moszner) 43 #3676

Linear endomorphisms of function algebras and related functional equations. *Indiana Univ. Math. J.* 20 (1970/71), 579-589. (R. H. Cox) 42 #5054

(with Schreiber, Morris) Carleman and semi-Carleman operator *Proc. Amer. Math. Soc.* 24 (1970), 293-299. (M. J. Fisher) 40 #7889

Targonskiĭ, L. F.

A certain theorem of Mercer type. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 29-43. (K. Karták) 41 #7340

A (c)-property of Voronoĭ's positive polynomial methods, and theorems of Tauberian type. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 625-636. (G. Halász) 42 #8131

Targonszky, G. I. See Targonski, György I.

Țarină, Marian

(with Orbán, B.) Plane pedal transformations and their application to non-euclidean geometry. (Romanian. Russian and French summaries) *Studia Univ. Babeș-Bolyai Ser. Math.-Phys.* 8 (1963), *no.* 2, 25-35. (Authors' summary) 30 #5203

Subprojective spaces of order n-3 with maximum group of motions. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 777-789. (P. Vincensini) 32 #8273

Equiaffine subprojective spaces. (Romanian. Russian and Fren summaries) *Studia Univ. Babeș-Bolyai Ser. Math.-Phys.* 9 (1964), *n* 1, 61-66. (A. Aeppli) 31 #2689

On the mobility of a space A_n without torsion which admits fields of parallel vectors. (Romanian. Russian and French summaries) *An. Univ. Timișoara Ser. Ști. Mat.-Fiz. No.* 3 (1965), 343-351. (G. Vranceanu) 34 #6687

Variétés A_n homogènes à groupe maximum et quelques propriétés globales de leurs courbes autoparallèles. *Rev. Roumaine Math. Pure Appl.* 10 (1965), 1317-1322. (S. Ide) 36 #5859

Spaces A_n admitting $m<n$ invariant Pfaff forms. (Romanian. Russian and French summaries) *Studia Univ. Babeș-Bolyai Ser. Math. Phys.* 10 (1965), *no.* 1, 31-39. (H. W. Guggenheimer) 32 #3000

(with Sandovici, P.; Enghiș, P.) Group of motions of spaces V_4 which admit two fields of isotropic parallel vectors. (Romanian. Russian and French summaries) *Studia Univ. Babeș-Bolyai Ser. Math. Phys.* 11 (1966), *no.* 2, 51-57. (From the authors' summary) 35 #3600

(with Sandovici, P.; Enghiș, P.) On the groups of motions of spaces V_{2N} which admit fields parallel null vectors. (Romanian. Russian and French summaries) *Studia Univ. Babeș-Bolyai Ser. Math. Phys.* 12 (1967), *no.* 1, 7-13. (R. Roșca) 36 #835

(with Sandovici, P.; Enghiș, P.) Spaces V_n with recurrent projective curvature. (Romanian. Russian and French summaries) *Studia Univ. Babeș-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 1, 17-22. (Y. Tashiro) 40 #6444

Espaces A_n sous-projectifs à groupe maximum de mouvements. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 987-998. (L. A. Santaló 44 #7466

Tarjanne, Pekka

Representations and mass formulas for SU(4). *Phys. Rev.* (2) 136 (1964), B1532-B1534. (S. L. Glashow) 31 #1968

On the stability of spontaneous breakdown solutions. *Phys. Lett.* 18 (1965), 183-185. (S. L. Glashow) 32 #903

(with Ambegaokar, V.) On the suppression of strangeness changing weak currents. *Phys. Lett.* 20 (1966), 535-537. (From the authors' introduction and summary) 32 #8803

Tarkowski, S.

Some properties of measurable sets. *Colloq. Math.* 21 (1970), 285-289. (T. P. Srinivasan) 42 #1965

Tarn, Tzyh Jong

(with Zaborszky, John) A practical, nondiverging filter. *AIAA J.* 8 (1970), 1127-1133. (J. Capon) 41 #6616

Stochastic optimal control with imperfectly known plant disturbances. *IEEE Trans. Automatic Control* AC-15 (1970), 250-252. (Author's summary) 42 #9037

Tarnawski, E.

Sur les fonctions continues sans dérivées considérées dans l'échelle logarithmico-puissance. *Enseignement Math.* (2) 9 (1963), 177-188. (J.-P. Kahane) 31 #3554

Tarnopol's'kiĭ, V. G.

Sufficient conditions for self-adjointness for difference operators with operator coefficients. (Russian) *Približ. Metod. Rešen. Differencial'. Uravnen. Vyp.* 2 (1964), 140-158. (I. M. Sheffer) 32 #8168

Tarnove, Ivin

A controllability problem for nonlinear systems. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif., 1967), pp.* 170-179. *Academic Press, New York,* 1967. (Author's summary) 40 #3027

Tarsi Santolini, Adelina

A proposito delle trasformazioni topologiche del piano reale euclideo su se stesso. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 36 (1964), 609-614. (S. Swaminathan) 30 #3448

(with Böhm, Corrado) A quasi-decision algorithm for the *P*-equivalence of two matrices. *ICC Bull.* 3 (1964), 57-69. (B. A. Galler) 29 #3010

A proposito di un teorema sugli autoomeomorfismi del piano reale euclideo. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 358-361. (S. Swaminathan) 32 #6426

(with Gotusso, Laura) Sull'applicazione del metodo di Ritz ai problemi di Mayer. (English summary) *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 939-959. (J. Hersch) 41 #7502

Tarski, Alfred

(with Erdös, Paul) On some problems involving inaccessible cardinals. *Essays on the foundations of mathematics, pp.* 50-82. *Magnes Press, Hebrew Univ., Jerusalem,* 1961. (D. Monk) 29 #4695

(See also Logic, methodology and philosophy of science, 29 #3347)

(with Keisler, H. J.) From accessible to inaccessible cardinals. Results holding for all accessible cardinal numbers and the problem of their extension to inaccessible ones. *Fund. Math.* 53 (1963/64), 225-308. (A. Hajnal) 29 #3385 (E)

(with Chang, Chen-Chung; Jónsson, B.) Refinement properties for relational structures. *Fund. Math.* 55 (1964), 249-281. (R. C. Lyndon) 30 #3029

(See also Theory of Models, 33 #3878 and Mathematical logic and its applications, 33 #5444)

(with Szczerba, L. W.) Metamathematical properties of some affine geometries. *Logic, Methodology and Philos. Sci. (Proc. 1964 Internat. Congr.), pp.* 166-178. *North-Holland, Amsterdam,* 1965. (A. Heyting) 35 #843

A simplified formalization of predicate logic with identity. *Arch. Math. Logik Grundlagenforsch.* 7, 61-79 (1965). (D. Monk) 34 #2437

(with Keisler, H. J.) Corrections to the paper "From accessible to inaccessible cardinals". *Fund. Math.* 57 (1965), 119. (Editors) 31 #3340

Equational logic and equational theories of algebras. *Contributions to Math. Logic (Colloquium, Hannover, 1966), pp.* 275-288. *North-Holland, Amsterdam,* 1968. (S. Comer) 38 #5692

* Undecidable theories. In collaboration with Andrzej Mostowski and Raphael M. Robinson. Second printing. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam,* 1968. xi + 98 *pp.* (Editors) 39 #5365

* Einführung in die mathematische Logik. Dritte Auflage. Auf Grund der englischen und französischen Ausgabe und der Ergänzungen des Verfassers übersetzt von Erhard Scheibe. Moderne Mathematik in elementarer Darstellung, 5. *Vandenhoeck & Ruprecht, Göttingen,* 1969. 252 *pp.* (Editors) 40 #5409

* Introduction à la logique. Deuxième édition, revue et augmentée. Traduit de l'Anglais par Jacques Tremblay. Collection de Logique Mathématique, Sér. A, No. 26. *Gauthier-Villars, Paris; E. Nauwelaerts, Louvain,* 1969. 246 *pp.* (Editors) 40 #5410

(with Doner, John) An extended arithmetic of ordinal numbers. *Fund. Math.* 65 (1969), 95-127. (E. Harzheim) 39 #5374

Tarski, Jan

Representation of fields in a two-dimensional model theory. *J. Mathematical Phys.* 5 (1964), 1713-1722. (H. Araki) 30 #867

Infraparticle structure and functional integrals. *Mathematical Theory of Elementary Particles (Proc. Conf., Dedham, Mass., 1965), pp.* 141-151. *M.I.T. Press, Cambridge, Mass.,* 1966. (G. Heber) 35 #1303

(with Dubin, Daniel A.) Indefinite metric resulting from regularization in the infrared region. *J. Mathematical Phys.* 7 (1966), 574-577. (W. Güttinger) 34 #5422

Functional integrals in quantum field theory and related topics. *Lectures in Theoretical Physics. Vol. XA: Quantum Theory and Statistical Physics (Proceedings Tenth Boulder Summer Institute for Theoretical Physics, Univ. Colorado, Boulder, Colo., 1967), pp.* 433-529. *Gordon and Breach, New York,* 1968. (Editors) 38 #4110

Description fonctionnelle de certaines théories non relativistes de champs. (English summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 11 (1969), 131-151. (J. R. Klauder) 41 #1331

Tarsy, Richard B.

Global dimension of orders. *Trans. Amer. Math. Soc.* 151 (1970), 335-340. (H. H. Storrer) 42 #3125

Global dimension of triangular orders. *Proc. Amer. Math. Soc.* 28 (1971), 423-426. (K. W. Roggenkamp) 43 #290

Tartaglia, Niccolò

(See Mechanics in sixteenth-century Italy, 38 #5558)

Tartakovskiĭ, B. D.

(with Rybak, S. A.) On the vibrations of thin plates. *Akust. Ž.* 9 (1963), 66-71 *(Russian); translated as Soviet Physics Acoust.* 9 (1963), 51-55. (Authors' summary) 31 #945

Tartakovskiĭ, G. P.

(with Bol'šakov, I. A.; Levin, B. R.; Repin, V. G.) Statistical synthesis of information systems. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 2, 153-170 *(Russian); translated as Engrg. Cybernetics* 1970, *no.* 2, 337-352 (1971). (S. Csibi) 43 #4537

Tartakovskiĭ, V. A.

(with Stender, P. V.) On the word problem in semigroups. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 15-38. (K. Drbohlav) 37 #2879

A uniform estimate of the number of representations of unity by a binary form of degree $n \geq 3$. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 764. (J. W. S. Cassels) 42 #4491

Tartakovskiy, G. P. See Tartakovskiĭ, G. P.

Tartakovsky, W. A. See Tartakovskiĭ, V. A.

Tartakowsky, W. See Tartakovskiĭ, V. A.

Tartar, Luc

Théorème d'interpolation non linéaire et applications. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1729-A1731. (J. Friberg) 43 #3795

Théorème de traces non linéaires et applications. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A789-A791. (Author's summary) 42 #3564

(with Bardos, Claude) Sur l'unicité rétrograde des équations d'évolution. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A1239-A1241. (Nguyễn Phuong Các) 44 #7370

Tarter, C. Bruce

Coefficients connecting the Stark and field-free wavefunctions for hydrogen. *J. Mathematical Phys.* 11 (1970), 3192-3195. (F. C. Auluck) 43 #1548

Tarter, Michael E.

(with Clark, Virginia A.) Properties of the median and other order statistics of logistic variates. *Ann. Math. Statist.* 36 (1965), 1779-1786. (D. G. Chapman) 32 #1796

Exact moments and product moments of the order statistics from the truncated logistic distribution. *J. Amer. Statist. Assoc.* 61 (1966), 514-525. (D. G. Chapman) 34 #8534

Inverse cumulative approximation and applications. *Biometrika* 55 (1968), 29-41. (M. E. Wise) 38 #2868

(with Kronmal, R.) The estimation of probability densities and cumulatives by Fourier series methods. *J. Amer. Statist. Assoc.* 63 (1968), 925-952. 37 #7023

(with Kronmal, Richard) On multivariate density estimates based on orthogonal expansions. *Ann. Math. Statist.* 41 (1970), 718-722. (M. B. Woodroofe) 40 #6691

Tarumoto, Kôichi

On the L_p-approximation of analytic functions. *Math. Japon.* 9 (1964), 11-18. (Editors) 31 #3615

Tarunin, E. L.

Numerical solution of the equations of free convection by the network method. (Russian) *Perm. Gos. Univ. Učen. Zap.* 1970, *no.* 220, 97-112. (F. M. Pascal) 44 #1253

Taruškin, V. T.

A certain class of optimal stochastic controls in linear systems. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 13, 90-93. (Ivar Petersen) 44 #6389

Tarwater, J. Dalton

Galois theory of abelian groups. *Math. Z.* 95 (1967), 50-59. (J. Rotman) 35 #251

Galois cohomology of abelian groups. *Pacific J. Math.* 24 (1968), 177-179. (J. Rotman) 36 #6499

(with Entringer, R. C.) Sums of complexes in torsion-free abelian groups. *Canad. Math. Bull.* 12 (1969), 475-478. (J. H. B. Kemperman) 40 #5732

Homogeneous primary abelian groups. *Proc. Amer. Math. Soc.* 24 (1970), 154-155. (R. J. Ensey) 40 #1472

Tasaka, Masao

Optimum designs for polynomial approximation. *Bull. Math. Statist.* 13 (1968), *no.* 1-2, 25-39. (H. L. Harter) 38 #1791

(with Kusano, Shinako; Sugiyama, Hiroshi) Some additional aspects of the Robbins-Monro stochastic approximation process for the multiple roots searching. *Tech. Rep. Osaka Univ.* 18 (1968), 1-13. (J. Wolfowitz) 38 #825

Tasaka, Takashi

On the quasi-split simple algebraic groups defined over an algebraic number field. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 147-168. (D. J. Winter) 38 #2144

Sur les groupes algébriques semi-simples déployés. *J. Math. Soc. Japan* 20 (1968), 390-399. (T. Ono) 37 #2764

On the second cohomology groups of the fundamental groups of simple algebraic groups over perfect fields. *J. Math. Soc. Japan* 21 (1969), 244-258. (T. Ono) 40 #5622

On certain character groups attached to algebraic groups. *J. Math. Soc. Japan* 23 (1971), 250-268. (T. Ono) 44 #1670

Taşcă, Gr.

(with Huiu, C.; Irimiciuc, N.; Rusu, I.) A new method for the graphic solution of metric problems. (Romanian. Russian and French summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 9(13) (1963), *fasc.* 1-2, 45-50. (Authors' summary) 32 #1591

Tasche, M.

Über den Raum der Δ^2-stetigen Funktionen. *Publ. Math. Debrecen* 16 (1969), 133-139. (M. de Guzmán) 42 #442

Über Funktionen, die Δ^2-stetig bzw. stetig von 2. Ordnung sind. *Studia Sci. Math. Hungar.* 4 (1969), 191-194. (M. de Guzman S. J.) 40 #2795

Tashiro, Yoshiaki

Pseudo-conformal mappings of the Fubini spaces. *Res. Rep. Nagaoka Tech. College* 1, 363-369 (1964). (S. Kobayashi) 30 #1479

The curvature of the Bergman metric. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 8, 280-296 (1965). (S. Kobayashi) 32 #3015

(with Ozaki, Shigeo) Mapping functions onto the representative domain and geodesic lines. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 127-133 (1969). (K. T. Hahn) 41 #510

(with Ozaki, Shigeo) Mapping function onto the representative domain and its properties. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 164-167 (1969). (K. T. Hahn) 41 #7150

Tashiro, Yoshihiro

An example of non-complete affine connection on a torus. (Japanese) *Sûgaku* 15 (1963/64), 221. (S. Kobayashi) 29 #6442

On the relationship between almost complex spaces and almost contact spaces centering around quasi-invariant subspaces of almost complex spaces. (Japanese) *Sûgaku* 16 (1964), 54-64. (K. Yano) 32 #1640

Complete Riemannian manifolds and some vector fields. *Trans. Amer. Math. Soc.* 117 (1965), 251-275. (Y.-C. Wong) 30 #4229

* Conformal transformations in complete Riemannian manifolds. Publications of the Study Group of Geometry, Vol. 3. *Kyoto Univ., Kyoto,* 1967. vii + 77 *pp.* (R. N. Sen) 38 #639

(with Miyashita, Kumao) Conformal transformations in complete product Riemannian manifolds. *J. Math. Soc. Japan* 19 (1967), 328-346. (Y.-C. Wong) 35 #3605

On contact structures of tangent sphere bundles. *Tôhuko Math. J.* (2) 21 (1969), 117-143. (K. Yano) 39 #6198

(with Miyashita, Kumao) On conformal diffeomorphisms of complete Riemannian manifolds with parallel Ricci tensor. *J. Math. Soc. Japan* 23 (1971), 1-10. (J. P. Wilson) 43 #1087

Tasić, Milan N.

(with Slavić, Dušan V.) On partial sums of slowly divergent numerical series. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 338-352 (1971), 63-67. (W. Biegert) 43 #7808

Tasković, Milan R.

(with Adamović, Dušan D.) Monotony and the best possible bounds of some sequences of sums. *Univ. Beograd. Publ Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 41-50. (G. K. White) 41 #5287

(with Janić, Radovan R.) Quelques inégalités relatives à un triangle. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 131-134. (A. Dinghas) 40 #6372

Généralisations de certaines inégalités géométriques et quelques inégalités géométriques nouvelles. *Mat. Vesnik* 7(22) (1970), 73-81. (A. E. Danese) 41 #7539

Tassie, Lindsay J.

Canonical quantization of the Schrödinger equation. *Amer. J. Phys.* 32 (1964), 609-611. (Author's summary) 29 #1913

(with Buchdahl, H. A.) Gauge-independent theory of symmetry. I. *Austral. J. Phys.* 17 (1964), 431-439. (R. Ingraham) 31 #4416

(with Buchdahl, H. A.) Gauge-independent theory of symmetry. II. *Austral. J. Phys.* 18 (1965), 109-117. (R. Ingraham) 31 #4417

Tassoul, J. L.

Sur la stabilité gravitationnelle d'un plasma homogène, dissipatif et illimité. (English summary) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 49 (1963), 935-946. (Author's summary) 29 #1047

Tata, Mahabanoo N.

On outstanding values in a sequence of random variables. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 9-20. (Simeon M. Berman) 40 #918

(with Ailam Gedalia) One-to-one functions on the positive integers. *J. Appl. Probability* 7 (1970), 505-507. (P. W. Mielke, Jr.) 42 #2519

(with Staudte, Robert G., Jr.) Complex roots of real characteristic functions. *Proc. Amer. Math. Soc.* 25 (1970), 238-246. (R. G. Laha) 41 #9323

Tatarkiewicz, Krzysztof

* Wykłady mechaniki teoretycznej. Część I. Podstawy. (Polish) [Lectures on theoretical mechanics. Part I. Foundations] *"Universal", Lublin,* 1962. 229 *pp.* (I. N. Veselovskiĭ) 32 #4896

Sur les équations différentielles ordinaires résolubles par des méthodes élémentaires. *Colloq. Math.* 11 (1963), 113-121. (T. L. Sherman) 29 #1375

Systems of differential equations and equations of higher orders. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 63-67. (M. Bertolino) 32 #7823

On the sliding of curves. *Colloq. Math.* 18 (1967), 103-106. (W. R. Utz) 36 #2903

The elementary solution of certain differential equations not containing the independent variable. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 12 (1968), 135-163. (M. Ráb) 38 #2359

* Rachunek wariacyjny. Część I: Warunki konieczne Eulera i Legendre'a. (Polish) [The calculus of variations. Part I: The necessary conditions of Euler and Legendre] *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1969. 318 *pp. (errata insert)* (L. C. Young) 39 #4719

Sur les plans osculateurs aux surfaces. *Demonstratio Math.* 1 (1969), *no.* 4, 1-18. (A. Fialkow) 41 #7545

* Rachunek wariacyjny. Część II: Warunki dostateczne. Zastosowania. (Polish) [The calculus of variations. Part II: Sufficient conditions. Applications] *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1970. 240 *pp. (loose errata)* (L. C. Young) 43 #1009

Sur une inégalité. *Demonstratio Math.* 2 (1970), *no.* 3, 159-163. (D. Boyd) 44 #2899

Tatarskiĭ, V. I.

(with Pogorelov, V. I.) Another formula for determining the Laguerre polynomials. (Russian) *Mat. Zametki* 6 (1969), 287-288. (O. E. Stanaitis) 40 #5934

(with Kljackin, V. I.) Probability distribution for the area bounded by a Gaussian random contour. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 357-363. (Judah Rosenblatt) 42 #1173

(with Klyatskin, V. I.) The parabolic equation approximation for propagation of waves in a medium with random inhomogeneities. *Ž. Èksper. Teoret. Fiz.* 58 (1970), 624-634 *(Russian. English summary); translated as Soviet Physics JETP* 31 (1970), 335-339. (Y. M. Chen) 44 #2415

Tătaru, P. I.

On the kinetic equation for the test-particle propagator. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Phys.* 15 (1970), *no.* 1, 65-70. (K. Imre) 42 #1461

Tătaru, Petru

(with Drăganu, Mircea) On Noble's complementary variational principles for Klein-Gordon equation. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 25-34. (L. M. Garrido) 42 #1450

Tatchell, J. B.

Limitation theorems for triangular matrix transformations. *J. London Math. Soc.* 40 (1965), 127-136. (A. Alexiewicz) 30 #5096

Limitation theorems for certain non-negative triangular matrix transformations. *J. London Math. Soc.* 40 (1965), 635-654. (A. Alexiewicz) 33 #7746

Tate, C.

Aggregates in a random distribution of points in a cylinder. *SIAM J. Appl. Math.* 17 (1969), 1177-1189. (R. R. Coveyou) 41 #2881

Tate, John T.

Duality theorems in Galois cohomology over number fields. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 288-295. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #168

(with Sen, Shankar) Ramification groups of local fields. *J. Indian Math. Soc. (N.S.)* 27 (1963), 197-202 (1964). (E. Weiss) 34 #1303

Algebraic cycles and poles of zeta functions. *Arithmetical Algebraic Geometry (Proc. Conf. Purdue Univ., 1963), pp.* 93-110. *Harper & Row, New York,* 1965. (A. Mattuck) 37 #1371

(with Lubin, Jonathan) Formal complex multiplication in local fields. *Ann. of Math.* (2) 81 (1965), 380-387. (P. Roquette) 30 #3094

Algebraic classes of cohomologies. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 27-40. (A. H. Wallace) 34 #1329

Multiplication complexe formelle dans les corps locaux. *Les Tendances Géom. en Algèbre et Théorie des Nombres, pp.* 257-258. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1966. (P. Roquette) 34 #4265

(with Lubin, Jonathan) Formal moduli for one-parameter formal Lie groups. *Bull. Soc. Math. France* 94 (1966), 49-59. (J. Dieudonné) 39 #214

Endomorphisms of abelian varieties over finite fields. *Invent. Math.* 2 (1966), 134-144. (O. F. G. Schilling) 34 #5829

The cohomology groups of tori in finite Galois extensions of number fields. *Nagoya Math. J.* 27 (1966), 709-719. (H. Bass) 34 #7495

Fourier analysis in number fields, and Hecke's zeta-functions. *Algebraic Number Theory (Proc. Instructional Conf., Brighton, 1965), pp.* 305-347. *Thompson, Washington, D. C.,* 1967. (Editors) 36 #121

Global class field theory. *Algebraic Number Theory (Proc. Instructional Conf., Brighton, 1965), pp.* 162-203. *Thompson, Washington, D. C.,* 1967. (G. Whaples) 36 #3749

p-divisible groups. *Proc. Conf. Local Fields (Driebergen, 1966)*, pp. 158-183. *Springer, Berlin*, 1967. (M. Miyanishi) 38 #155

(with Šafarevič, I. R.) The rank of elliptic curves. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 770-773. (Authors' introduction) 38 #5790

* (with Artin, E.) Class field theory. *W. A. Benjamin, Inc., New York-Amsterdam*, 1968. xxvi + 259 *pp.* (Editors) 36 #6383

(with Serre, Jean-Pierre) Good reduction of abelian varieties. *Ann. of Math.* (2) 88 (1968), 492-517. (M. J. Greenberg) 38 #4488

Residues of differentials on curves. *Ann. Sci. École Norm. Sup.* (4) 1 (1968), 149-159. (R. L. Knighten) 37 #2756

(with Oort, Frans) Group schemes of prime order. *Ann. Sci. École Norm. Sup.* (4) 3 (1970), 1-21. (J. S. Milne) 42 #278

(See also Griffiths, P. A., 43 #1980)

Tate, Robert F.

(with Olkin, I.) Correction to "Multivariate correlation models with mixed discrete and continuous variables". *Ann. Math. Statist.* 36 (1965), 343-344. (P. S. Dwyer) 30 #3545

(with Hannan, J. F.) Estimation of the parameters for a multivariate normal distribution when one variable is dichotomized. *Biometrika* 52 (1965), 664-668. (Authors' summary) 34 #5199

Conditional-normal regression models. *J. Amer. Statist. Assoc.* 61 (1966), 477-489. (I. Olkin) 34 #8567

(with Prince, Benjamin M.) Accuracy of maximum-likelihood estimates of correlation for a biserial model. *Psychometrika* 31 (1966), 85-92. 35 #7557

Tateoka, Jun

On almost everywhere convergence of Walsh-Fourier series. *Proc. Japan Acad.* 44 (1968), 647-650. (R. A. Hunt) 39 #702

Tati, Takao

The broken symmetry and a symmetrical set of charges in octet theory. *Progr. Theoret. Phys.* 31 (1964), 511-513. (Y. Ne'eman) 29 #982

Tatian, Berge

Method for obtaining the transfer function from the edge response function. *J. Opt. Soc. Amer.* 55 (1965), 1014-1019. (I. Kay) 32 #739

Tatojan, P. H.

Connections between mean values of conjugate harmonic functions. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 49 (1969), 3-8. (V. P. Havin) 44 #1826a

Relations between the mean values of conjugate harmonic functions. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 49 (1969), 170-174. (V. P. Havin) 44 #1826b

Taton, René

L'oeuvre de Pascal en géométrie projective. *Rev. Histoire Sci. Appl.* 15 (1962), 197-252. (I. N. Veselovskiĭ) 33 #1207

Sur l'invention de la machine arithmétique. *Rev. Histoire Sci. Appl.* 16 (1963), 139-160. (I. N. Veselovskiĭ) 38 #969

La première note mathématique de Gaspard Monge (juin 1769). *Rev. Histoire Sci. Appl.* 19 (1966), 143-149. (C. B. Boyer) 38 #975

Pierre Sergescu, artisan de la collaboration internationale en histoire des sciences. *Janus* 55 (1968), 20-29. 37 #5080

Tatsunyak, P. I. See Tacunjak, P. I.

Tatsuuma, Nobuhiko

Remarks on induced representations of topological groups. (Japanese) *Sûgaku* 12 (1960/61), 105-107. (A. Morimoto) 34 #4413

A duality theorem for the real unimodular group of second order. *Proc. Japan Acad.* 40 (1964), 638-642. (A. Kleppner) 30 #4857

A duality theorem for the real unimodular group of second order. *J. Math. Soc. Japan* 17 (1965), 313-332. (M. Sugiura) 32 #1290

A duality theorem for locally compact groups. I. *Proc. Japan Acad.* 41 (1965), 878-882. (M. Sugiura) 34 #5986a

A duality theorem for locally compact groups. II. *Proc. Japan Acad.* 42 (1966), 46-47. (M. Sugiura) 34 #5986b

Regularity of orbits space on semisimple Lie groups. *Proc. Japan Acad.* 42 (1966), 84-86. (J. Glimm) 33 #5785

A duality theorem for locally compact groups. III. *Proc. Japan Acad.* 42 (1966), 87-90. (M. Sugiura) 34 #5986c

A duality theorem for locally compact groups. IV. *Proc. Japan Acad.* 42 (1966), 239-242. (M. Sugiura) 34 #5986d

A duality theorem for locally compact groups. *J. Math. Kyoto Univ.* 6 (1967), 187-293. (A. Kleppner) 36 #313

The general theory of locally compact groups. (Japanese) *Sûgaku* 19 (1968), 251-255. (M. Takesaki) 43 #6363

A duality theorem on weak containment in general locally compact groups. (Japanese) *Sûgaku* 20 (1968), 65-75, 95. (S. Sakai) 40 #5777

(with Takesaki, Masamichi) Duality and subgroups. *Ann. of Math.* (2) 93 (1971), 344-364. (R. Goodman) 43 #7557

Tatuzawa, Tikao

Some results in the Fourier analysis. *Nagoya Math. J.* 27 (1966), 55-59. (W. Schwarz) 33 #1652

Some remarks in the Fourier analysis. *Nagoya Math. J.* 29 (1967), 217-219. (W. Schwarz) 35 #2077

On a theorem in the theory of Fourier series. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 111-113. (H. Burkill) 38 #3690

On the Fourier series and integrals of the function with many variables. *Sci. Papers College Gen. Ed. Univ. Tokyo* 19 (1969), 25-33. (R. A. Askey) 40 #642

Taub, A. H.

Approximate stress energy tensor for gravitational fields. *J. Mathematical Phys.* 2 (1961), 787-793. (W. Rindler) 32 #5333

On spherically symmetric distributions of incompressible fluids. *Recent developments in general relativity, pp.* 449-457. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2019a

Small motions of a spherically symmetric distribution of matter. (French summary) *Les théories relativistes de la gravitation (Royaumont, 1959), pp.* 173-191. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2019b

Hydrodynamics and general relativity. *Fundamental Topics in Relativistic Fluid Mechanics and Magnetohydrodynamics (Proc. Sympos., Michigan State Univ.,* 1962*), pp.* 21-28. *Academic Press, New York,* 1963. (N. Coburn) 29 #6915

The Riemann-Christoffel tensor and tetrad and self-dual formalisms. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 360-368. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (P. S. Florides) 34 #7182

Restricted motions of gravitating spheres. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 9 (1968), 153-178. (W. B. Bonnor) 44 #1381

Stability of general relativistic gaseous masses and variational principles. *Comm. Math. Phys.* 15 (1969), 235-254. (H. A. Buchdahl) 40 #8416

Variational principles and relativistic magnetohydrodynamics. (French summary) *La Magnétohydrodynamique Classique et Relativiste (Colloq., Lille,* 1969*), pp.* 189-200. *Éditions Centre Nat. Recherche Sci., Paris,* 1970. (H. Rund) 43 #4424

Variational principles in general relativity. *Relativistic Fluid Dynamics (C.I.M.E., I Ciclo, Bressanone,* 1970*), pp.* 205-300. *Edizioni Cremonese, Rome,* 1971. (H. S. P. Grässer) 44 #7942

(with Cahill, M. E.) Spherically symmetric similarity solutions of the Einstein field equations for a perfect fluid. *Comm. Math. Phys.* 21 (1971), 1-40. (P. C. Vaidya) 43 #7183

Tauber, Gerald E.

Weak gravitational fields in an expanding universe to any order of approximation. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 369-382. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (R. J. Torrence) 34 #5486

Täuber, Iosif

On Darboux-Ribaucour polynomials associated with a curve on a surface. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 241-244. (Editors) 32 #1620

(with Stanciu, P.) Jonquières transformations which generalize inversion. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 9(23) (1964), *volum special,* 9-14. (P. Du Val) 35 #6676

(with Stanciu, P.) On a family of birational transformations. (Romanian. Russian and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 281-285. (H. W. Guggenheimer) 34 #6621

Über Frenet-Polynome die einer Weltlinie beigefügt sind. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 454-458. (W. B. Bonnor) 37 #4754

Tauber, Selmo

Existence and uniqueness theorems for solutions of difference equations. *Amer. Math. Monthly* 71 (1964), 859-862. (T. Fort) 29 #6206

On N-numbers. *Elem. Math.* 19 (1964), 57-62. (J. Riordan) 29 #38

Existence theorems for solutions of functional equations. *Monatsh. Math.* 68 (1964), 368-374. (M. Kuczma) 30 #5074

On generalised Lah-numbers. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 229-232. (J. Riordan) 32 #2618

On two classes of quasi-orthogonal numbers. *Amer. Math. Monthly* 72 (1965), 602-607. (J. Riordan) 31 #1205

Sur les opérateurs A et B. *Elem. Math.* 20 (1965), 81-87. (T. Fort) 31 #3736

Summation formulae for multinomial coefficients. *Fibonacci Quart.* 3 (1965), 95-100. (L. Carlitz) 31 #5809

A note on existence theorems of functional equations. *Monatsh. Math.* 69 (1965), 424-426. (M. Kuczma) 33 #1612

Lah numbers for Fibonacci and Lucas polynomials. *Fibonacci Quart.* 6 (1968), *no.* 5, 93-99. (J. Riordan) 39 #2693

Lah numbers for R-polynomials. *Fibonacci Quart.* 6 (1968), *no.* 5, 100-107. (J. Riordan) 39 #2651

On Q-Fibonacci polynomials. *Fibonacci Quart.* 6 (1968), 127-134. (J. Riordan) 39 #172

On n-dimensional Stirling numbers. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 291-299. (H. Gupta) 41 #1551

Tauer, Rita Jean

Semi-regular maximal abelian subalgebras in hyperfinite factors. *Bull. Amer. Math. Soc.* 71 (1965), 606-608. (S. Sakai) 31 #2633

Maximal abelian subalgebras in finite factors of type II. *Trans. Amer. Math. Soc.* 114 (1965), 281-308. (M. Nakamura) 32 #374

M-semiregular subalgebras in hyperfinite factors. *Trans. Amer. Math. Soc.* 129 (1967), 530-541. (M. Nakamura) 36 #701

Taufer, Jiří

On factorization method. (Czech and Russian summaries) *Apl. Mat.* 11 (1966), 427-451. (J. C. Butcher) 37 #2458

Faktorisierungsmethode für ein Randwertproblem eines linearen Systems von Differentialgleichungen. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 191-198. (J. C. Butcher) 37 #7095

Faktorisierungsmethode für ein Eigenwertproblem eines linearen Systems von Differentialgleichungen. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 199-200. (J. C. Butcher) 37 #7096

Faktorisierungsmethode für ein Randwertproblem eines nichtlinearen Systems von Differentialgleichungen. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 201-202. (J. C. Butcher) 37 #7097

Tauglih, G. L.

(with Faĭn, S. B.) The correcting possibilities of polynomial residue codes. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 33-36. (T. Nemetz) 42 #7388

(with Faĭn, S. B.; Kipšidze, Z. Š.) The weight polynomial error-correcting code. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 59 (1970), 301-303. (G. M. Tenengol'c) 44 #8037

Taulbee, O. E.

(with Bednarek, A. R.) On maximal chains. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 23-25. (F. Harary) 34 #80

Tausendfreund, W.

Voraussetzungen für die Auswertung von Fluorometermessungen. *Ann. Physik* (7) 16 (1965), 81-87. (Author's summary) 32 #3430

Bestimmung von Lumineszenzabklingkurven aus Fluorometermessungen. *Ann. Physik* (7) 16 (1965), 88-92. (Author's summary) 32 #3431

Taussky, Olga

On the variation of the characteristic roots of a finite matrix under various changes of its elements. *Recent Advances in Matrix Theory (Proc. Advanced Seminar, Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis., 1963), pp.* 125-138. *Univ. Wisconsin Press, Madison, Wis.*, 1964. (A. S. Householder) 29 #2269

(with Dade, E. C.) On the different in orders in an algebraic number field and special units connected with it. *Acta Arith.* 9 (1964), 47-51. (J. V. Armitage) 29 #3460

(with Dade, E. C.) Some new results connected with matrices of rational integers. *Proc. Sympos. Pure Math., Vol. VIII, pp.* 78-88. *Amer. Math. Soc., Providence, R. I.*, 1965. (E. Weiss) 32 #2395

(with Pall, Gordon) Scalar matrix quadratic residues. *Mathematika* 12 (1965), 94-96. (Burton W. Jones) 31 #4805

A determinantal identity for quaternions and a new eight square identity. *J. Math. Anal. Appl.* 15 (1966), 162-164. (G. F. Clements) 34 #183

On the similarity transformation between an integral matrix with irreducible characteristic polynomial and its transpose. *Math. Ann.* 166 (1966), 60-63. (Burton W. Jones) 33 #7355

Remarks on a matrix theorem arising in statistics. *Monatsh. Math.* 70 (1966), 461-464. (C. G. Cullen) 34 #1342

Positive-definite matrices. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio, 1965), pp.* 309-319. *Academic Press, New York*, 1967. (Burton W. Jones) 36 #3806

On stable matrices. (French summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No.* 165, *Besançon*, 1966*), pp.* 75-88. *Éditions Centre Nat. Recherche Sci., Paris*, 1968. (L. Fox) 37 #6298

Positive-definite matrices and their role in the study of the characteristic roots of general matrices. *Advances in Math.* 2, 175-186 (1968). (Marvin Marcus) 37 #2785

The discriminant matrices of an algebraic number field. *J. London Math. Soc.* 43 (1968), 152-154. (G. Whaples) 37 #4053

The factorization of the adjugate of a finite matrix. *Linear Algebra and Appl.* 1 (1968), *no.* 1, 39-41. (Marvin Marcus) 37 #2784

Automorphs and generalized automorphs of quadratic forms treated as characteristic value relations. *Linear Algebra and Appl.* 1 (1968), 349-356. (H. S. Butts) 38 #2155

A generalization of matrix commutativity. *Linear Algebra and Appl.* 2 (1969), 349-353. (J. K. Goldhaber) 40 #167

(with Zassenhaus, Hans) On the 1-cohomology of the general and special linear groups. *Aequationes Math.* 5 (1970), 129-201. (J. Dieudonné) 44 #4076

Sums of squares. *Amer. Math. Monthly* 77 (1970), 805-830. (R. C. Thompson) 42 #3020

(with Pall, Gordon) Factorization of Cayley numbers. *J. Number Theory* 2 (1970), 74-90. (F. van der Blij) 41 #176

A remark concerning Hilbert's theorem 94. *J. Reine Angew. Math.* 239/240 (1970), 435-438. (O. F. G. Schilling) 43 #4796

A remark concerning the similarity of a finite matrix A and A^*. *Math. Z.* 117 (1970), 189-190. (Morris Newman) 42 #7681

Some remarks on the matrix operator ad A. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 235-237. *Academic Press, London*, 1971. (W. Ledermann) 43 #240

Some results concerning the transition from the L- to the P-property for pairs of finite matrices. *J. Algebra* 20 (1972), 271-283. (R. Merris) 44 #5329

Tausworthe, Robert C.

Equivalence classes of periodic sequences. *Illinois J. Math.* 8 (1964), 266-270. (N. J. Fine) 29 #1178

Random numbers generated by linear recurrence modulo two. *Math. Comp.* 19 (1965), 201-209. (J. H. Halton) 32 #1878

Tauts, A.

Solution of logical equations in the first-order one-place predicate calculus. (Russian. English summary) *Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim. No.* 24 (1964), 3-16. (H. B. Curry) 33 #2526; erratum, 34, p. 1784

Solution of logical equations by an iteration method in the first-order predicate calculus. (Russian. English summary) *Eesti NSV Tead. Akad. Füüs. Astronoom. Inst. Uurim. No.* 24 (1964), 17-24. (H. B. Curry) 33 #2527

The definition of truth values as formulae. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 206 (1967), 3-9. (M. S. Popadić) 41 #3255

Logic as a classification of formulae. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 220 (1968), 3-11. (M. S. Popadić) 42 #4380

Nonregular first order predicate calculus. (Russian) *Algebra i Logika* 8 (1969), 76-92. (M. Rogava) 43 #6053

Nonfixed formulae. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 253 (1970), 45-54. (J. Waszkiewicz) 44 #3839

An analogue of Herbrand's theorem for second order predicate calculus. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 253 (1970), 55-65. (J. Waszkiewicz) 43 #7308

Tăutu, Petre

(with Firescu, D.) A stochastic theory of multi-compartmented systems. (Romanian. Russian and English summaries) *An. Univ. Bucuresti Ser. Şti. Natur. Mat.-Mec.* 15 (1966), *no.* 1, 75-87. (Authors' summary) 35 #5247

(with Firescu, D.) A simple stochastic model of growth of populations heterogeneous by marker characters. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), 133-142 (1968). (H. G. Tucker) 37 #2538

(with Firescu, D.) A stochastic generalization of the theory of multicompartmented systems. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), *no.* 3, 27-33 (1968). (H. G. Tucker) 38 #6680

(with Firescu, D.) A stochastic model of focal epidemic. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 653-664. (George Weiss) 36 #4908

* (with Iosifescu, Marius) Procese stohastice şi aplicaţii în biologie şi medicină. (Romanian) [Stochastic processes and their applications in biology and medicine] *Editura Academiei Republicii Socialiste România, Bucharest*, 1968. 345 *pp.* (P. Holgate) 39 #1006

(with Firescu, D.) Stochastic considerations on the all-or-none biological systems. (German summary) *Biometrische Z.* 11 (1969), 145-154. (B. Raja Rao) 43 #8198

(with Firescu, D.; Savu, Silvia) On the distribution function of pharmacoreceptors response-time. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 35-44. (H.-J. Rossberg and W. A. O'N. Waugh) 43 #4490

Tautz, George Lukas

Lothar Heffter. *Jber. Deutsch. Math.-Verein.* 66 (1963/64), *Abt.* 1, 39-52. (Editors) 32 #1109

Ta Van Dinh

On the correctness of difference problems. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR.* 1964, 308-312. (H. P. Thielman) 29 #3778

Sur quelques problèmes aux limites non linéaires sur un filet non uniforme. *Acta Sci. Vietnam.* 2 (1965), 63-92. (F. Perrin) 41 #7860

Tavanec, P. V.

(with Smirnova, E. D.) Semantics in logic. (Russian) *Logical Semantics and Modal Logic (Russian), pp.* 3-53. *Izdat. "Nauka", Moscow*, 1967. (H. B. Curry) 37 #48

Tavares, Hermano

(with Martin, Jean-Claude) Sur un critère de stabilité absolue de systèmes de commande automatique à plusieurs organes non linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A953-A956. (E. O. Roxin) 39 #1220

Sur des critères de stabilité absolue de systèmes non linéaires multivariables. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A110-A112. (E. O. Roxin) 42 #8991

Sur un critère de stabilité du type entrée bornée-sortie bornée applicable aux systèmes non linéaires multivariables. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A623-A624. (E. O. Roxin) 42 #8992

Tavares, Stafford E.

(with Fukada, Minoru) Matrix approach to synchronization recovery for binary cyclic codes. *IEEE Trans. Information Theory* IT-15 (1969), 93-101. (Authors' summary) 39 #2520

(with Fukada, M.) Synchronization of cyclic codes in the presence of burst errors. *Information and Control* 14 (1969), 423-441. (Authors' summary) 39 #8000

(with Fukada, M.) Further results on the synchronization of binary cyclic codes. *IEEE Trans. Information Theory* IT-16 (1970), 238-241. (Authors' summary) 42 #7404

(with Shiva, S. G. S.) Detecting and correcting multiple bursts for binary cyclic codes. *IEEE Trans. Information Theory* IT-16 (1970), 643-644. (G. M. Tenengol'c) 43 #1746

(with Fukada, M.) Synchronization of a class of codes derived from cyclic codes. *Information and Control* 16 (1970), 153-166. (G. Solomon) 42 #7405

(with Allard, P. E.; Shiva, S. G. S.) On the decomposition of cyclic codes into cyclic classes. *Information and Control* 18 (1971), 342-354. (R. C. Mullin) 44 #3766

Tavathia, B. S.

On the applications of Poisson's formulae. *Gaṇita* 16 (1965), 117-124. (J. Blackman) 36 #3076

On certain integrals involving Whittaker's function. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 945-949. (H. M. Srivastava) 39 #3250

On certain transformations in operational calculus. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 83-87. (V. P. Mainra) 34 #8117

Certain theorems on Meijer transform. *Mat. Vesnik* 4(19) (1967), 228-238. (C. Fox) 36 #4279

On certain transformations in operational calculus and self-reciprocal functions. *Monatsh. Math.* 71 (1967), 49-54. (V. P. Mainra) 34 #8118

Certain theorems on unilateral and bilateral operational calculus. *Compositio Math.* 22 (1970), 58-66. (Z. Ditzian) 41 #7392

Tavernier, Jean

(with Calecki, Daniel) Théorie quantique des phénomènes non isothermes par la méthode du gain moyen d'énergie généralisée. *C. R. Acad. Sci. Paris* 259 (1964), 737-739. (S. Ono) 30 #2869

(with Calecki, Daniel) Remarque sur l'expression de la conductivité électrique en théorie quantique. *C. R. Acad. Sci. Paris* 260 (1965), 1577-1580. (E. J. Verboven) 31 #1065

Tavhelidze, A. N.

(with Arbuzov, B. A.; Logunov, A. A.; Faustov, R. N.) Regge poles and the Bethe-Salpeter equation. *Dokl. Akad. Nauk SSSR* 150 (1963), 764-766 *(Russian); translated as Soviet Physics Dokl.* 8 (1963), 559-560. (Authors' summary) 34 #5405

(with Logunov, A. A.; Nguyen van Hieu; Hrustalev, O. A.) Regge poles and perturbation theory. *Nuclear Phys.* 49 (1963), 170-176. (Authors' summary) 29 #4487

(with Vašakidze, I. Š.; Muradjan, R. M.; Čilašvili, G. A.; Šelest, V. P.) Analytic features of the scattering amplitude in the nonrelativistic three-body problem. *Dokl. Akad. Nauk SSSR* 158 (1964), 1302-1305 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 910-912. (R. L. Omnès) 32 #809

(with Stojanov, D.) A relativistic three-body problem. *Phys. Lett.* 13 (1964), 76-77. (R. L. Omnès) 32 #807a

(with Kadyševskiĭ, V. G.; Muradjan, R. M.; Todorov, I. T.) SU(6)-symmetry and higher angular momenta. *Phys. Lett.* 15 (1965), 180-182. (S. L. Glashow) 32 #893

(with Kadyševskiĭ, V. G.; Muradjan, R. M.; Todorov, I. T.) Relativistic generalization of SU(6)-symmetry. *Phys. Lett.* 15 (1965), 182-184. (W. D. McGlinn) 32 #5218

(with Lipkin, H. J) Magnetic moments of relativistic quark models of elementary particles. *Phys. Lett.* 17 (1965), 331-332. (E. Ferrari) 32 #876

(with Kadyševskiĭ, V. G.) Three-dimensional formulation of the relativistic two-body problem. (Russian) *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna, 1968), pp.* 173-196. *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (N. Rosen) 41 #3042

(with Matveev, V. A.; Stojanov, D. T.) Perturbation theory, finite-energy sum rules and a generalized Veneziano representation. *Phys. Lett.* 32B (1970), 61-64. (S. Aramaki) 43 #7154

Tavkhelidze, A. N. See Tavhelidze, A. N.

Ta Wang Ting. See Ta Van Dinh.

Tawara, Kenich

A note on ideals of an order over a Dedekind domain in the matrix ring of degree 2. *Mem. Osaka Univ. Lib. Arts Ed. Ser. B No.* 13 (1964), 1-3. (J. K. Goldhaber) 32 #7580

Taxak, R. L.

Some results involving Fox's *H*-function and exponential functions. *Labdev—J. Sci. Tech. Part A* 8 (1970), 139-144. (S. D. Bajpai) 42 #2060

Some results involving Fox's *H*-function and Bessel functions. *Math. Education* 4 (1970), 93-97. (From the author's introduction) 42 #4791

Fourier series for Fox's *H*-function. *Defence Sci. J.* 21 (1971), 43-48. (R. G. Buschman) 44 #4258

Taylor, A. W. B.

(with Fröhlich, H.) The Boltzmann equations in electron-phonon systems. *Proc. Phys. Soc.* 83 (1964), 739-748. (S. Fujita) 29 #1955

Taylor, Angus E.

The boundary of the spectrum of a linear operator. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague,* 1961*), pp.* 347-350. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague,* 1962. (Editors) 30 #4156

* General theory of functions and integration. *Blaisdell Publishing Co. [Ginn and Co.], New York-Toronto-London,* 1965. xvi + 437 *pp.* (T. A. Botts) 31 #2358

Theorems on ascent, descent, nullity and defect of linear operators. *Math. Ann.* 163 (1966), 18-49. (A. F. Ruston) 32 #8169

Notes on the history of the uses of analyticity in operator theory. *Amer. Math. Monthly* 78 (1971), 331-342. (Editors) 43 #5331 (E)

Taylor, B. A.

(with Rubel, L. A.) A Fourier series method for meromorphic and entire functions. *Bull. Amer. Math. Soc.* 72 (1966), 858-860. (S. K. Bose) 33 #7549

(with Kelleher, J.) An application of the Corona theorem to some rings of entire functions. *Bull. Amer. Math. Soc.* 73 (1967), 246-249. (J. Wermer) 34 #6096

The fields of quotients of some rings of entire functions. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.,* 1966*), pp.* 468-474. *Amer. Math. Soc., Providence, R. I.,* 1968. (W. Stoll) 39 #1678

(with Rubel, L. A.) Weighted polynomial approximation on the integers. *Arch. Math. (Basel)* 19 (1968), 511-515. (V. Ganapathy Iyer) 38 #6078

(with Rubel, Lee A.) A Fourier series method for meromorphic and entire functions. *Bull. Soc. Math. France* 96 (1968), 53-96. (J.-P. Kahane) 42 #509

(with Rubel, L. A.) A completeness theorem for entire functions. *J. Indian Math. Soc. (N.S.)* 32 (1968), 195-198 (1969). (K. R. Unni) 41 #8670

(with Rubel, L. A.) Uniqueness theorems for analytic functions of one and of several complex variables. *Proc. Cambridge Philos. Soc.* 64 (1968), 71-82. (M. Hervé) 37 #1647 (E)

(with Rubel, L. A.) Functional analysis proofs of some theorems in function theory. *Amer. Math. Monthly* 76 (1969), 483-489; *correction, ibid.* 77 (1970), 58. (D. Drasin) 40 #384

(with Rubel, L. A.) Correction to: "Uniqueness theorems for analytic functions of one and of several complex variables". *Proc. Cambridge Philos. Soc.* 66 (1969), 685. (Editors) 39 #5819

(with Williams, D. L.) Ideals in rings of analytic functions with smooth boundary values. *Canad. J. Math.* 22 (1970), 1266-1283. (K. V. Rajeswara Rao) 42 #7905

(with Williams, D. L.) The peak sets of A^m. *Proc. Amer. Math. Soc.* 24 (1970), 604-606. (Ian Richards) 41 #488

A seminorm topology for some (DF)-spaces of entire functions. *Duke Math. J.* 38 (1971), 379-385. (K. F. Klopfenstein) 43 #3467

(with Alexander, Herbert; Williams, D. L.) The interpolating sets for A^∞. *J. Math. Anal. Appl.* 36 (1971), 556-566. (R. B. Burckel) 44 #5494

(with Williams, D. L.) Zeros of Lipschitz functions analytic in the unit disc. *Michigan Math. J.* 18 (1971), 129-139. (D. A. Brannan) 44 #409

On weighted polynomial approximation of entire functions. *Pacific J. Math.* 36 (1971), 523-539. (L. I. Hedberg) 44 #2025

Discrete sufficient sets for some spaces of entire functions. *Trans. Amer. Math. Soc.* 163 (1972), 207-214. (V. Ganapathy Iyer) 44 #7269

Taylor, C. D.

On the motion of electrons scattered from an infinite slab. *J. Mathematical Phys.* 7 (1966), 1332-1334. (J. Peretti) 35 #6430

Taylor, D. E.

A characterization of the group Aut(PGL(3,4,)). *J. Austral. Math. Soc.* 11 (1970), 195-206. (N. Ito) 42 #360

Taylor, David B.

(with Campbell, John D.) On the numerical solution of a wave propagation problem in the theory of dislocation motion. *Stress Waves in Anelastic Solids (Sympos., Brown Univ., Providence, R. I.,* 1963*), pp.* 54-68. *Springer, Berlin,* 1964. (P. P. Teodorescu) 30 #2749

Taylor, Donald Curtis

A characterization of Banach algebras with approximate unit. *Bull. Amer. Math. Soc.* 74 (1968), 761-766. (P. Civin) 37 #2003

A generalized Fatou theorem for Banach algebras. *Pacific J. Math.* 26 (1968), 389-394. (A. B. Willcox) 38 #5007

(with Sentilles, F. Dennis) Factorization in Banach algebras and the general strict topology. *Trans. Amer. Math. Soc.* 142 (1969), 141-152. (J. D. Pryce) 40 #703

The strict topology for double centralizer algebras. *Trans. Amer. Math. Soc.* 150 (1970), 633-643. (E. J. Barbeau) 44 #7302

Taylor, Douglas H.

Circumscribing cubes of an hyperellipsoid. *Proc. Amer. Math. Soc.* 17 (1966), 1289-1296. (S. S. Cairns) 34 #680

Taylor, E. G. R.

* The mathematical practitioners of Hanoverian England, 1714-1840. *Cambridge University Press, Cambridge,* 1966. xv + 503 *pp.* *(13 plates)* (C. J. Scriba) 34 #2411

Taylor, Edward C.

(with Baños, A., Jr.; Huddlestone, R. H.; Pridmore-Brown, D. C.) The radiation field of an electric dipole antenna in a conical sheath. *J. Math. and Phys.* 44 (1965), 189-213. (K. C. Westfold) 32 #751

Transmission and reflection of electromagnetic waves by a hot plasma. *J. Res. Nat. Bur. Standards Sect. D.* 69D (1965), 735-739. (Sylvan Katz) 32 #3456

Landau solution of the plasma oscillation problem. *Phys. Fluids* 8 (1965), 2250-2254. (V. H. Weston) 32 #7139

Taylor, Fred J.

The design of an optimal system subject to parameter variations. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1969), pp.* 564-573. *Univ. of Illinois, Urbana, Ill.,* 1969. (Author's summary) 41 #8110

Taylor, Geoffrey Ingram

* Scientific papers. Vol. III: Aerodynamics and the mechanics of projectiles and explosions. Edited by G. K. Batchelor. *Cambridge University Press, New York,* 1963. xii + 559 *pp.* *(14 plates)* (J. V. Wehausen) 30 #1700

Taylor, Gerald D.

Multipliers on D_α. *Trans. Amer. Math. Soc.* 123 (1966), 229-240. (J. Gil de Lamadrid) 34 #6514

(with Cima, Joseph A.) On the equation $f_1g_1 + f_2g_2 = 1$ in H^p. *Illinois J. Math.* 11 (1967), 431-438. (T. P. Srinivasan) 36 #1665

Spectra of multipliers on D_α. *Duke Math. J.* 35 (1968), 307-311. (M. Rosenblum) 37 #3385

A note on the growth of functions in H^p. *Illinois J. Math.* 12 (1968), 171-174. (J. P. Williams) 36 #2806

(with Loeb, H. L.; Moursund, D. G.) Uniform rational weighted approximations having restricted ranges. *J. Approximation Theory* 1 (1968), 401-411. (A. Magnus) 38 #6281

(with Moursund, D. G.) Optimal starting values for the Newton-Raphson calculation of inverses of certain functions. *SIAM J. Numer. Anal.* 5 (1968), 138-150. (A. R. Mitchell) 37 #1074

An approximation by polynomials having restricted ranges. *SIAM J. Numer. Anal.* 5 (1968), 258-268. (C. W. Clenshaw) 40 #6142

(with Moursund, D. G.) Uniform rational approximation using a generalized weight function. *SIAM J. Numer. Anal.* 5 (1968), 882-889. (F. Deutsch) 42 #6483

Approximation by functions having restricted ranges. III. *J. Math. Anal. Appl.* 27 (1969), 241-248. (C. W. Clenshaw) 41 #2261

(with Bacopoulos, Alex) Vectorial approximation by restricted rationals. *Math. Systems Theory* 3 (1969), 232-243. (E. W. Cheney) 40 #4647

Approximation by functions having restricted ranges: Equality case. *Numer. Math.* 14 (1969/70), 71-78. (E. W. Cheney) 41 #4101

(with Schumaker, L. L.) On approximation by polynomials having restricted ranges. II. *SIAM J. Numer. Anal.* 6 (1969), 31-36. (C. W. Clenshaw) 41 #2260

(with Loeb, H. L.; Moursund, D. G.; Schumaker, L. L.) Uniform generalized weight function polynomial approximation with interpolation. *SIAM J. Numer. Anal.* 6 (1969), 284-293. (D. C. Handscomb) 40 #3679

(with Duren, P. L.) Mean growth and coefficients of H^p functions. *Illinois J. Math.* 14 (1970), 419-423. (J. A. Cima) 41 #3777

Optimal starting approximations for Newton's method. *J. Approximation Theory* 3 (1970), 156-163. (C. W. Clenshaw) 41 #7839

(with Salehi, H.) Positive matrix $H^{1/2}$ and Hermitian matrix H^1 functions are constant. *Proc. Amer. Math. Soc.* 26 (1970), 469-470. (J. H. Neuwirth) 42 #2008

(with Winter, M. J.) Calculation of best restricted approximations. *SIAM J. Numer. Anal.* 7 (1970), 248-255. (W. J. Kotzé) 42 #3978

(with Meinardus, G.; Reddy, A. R.; Varga, R. S.) Converse theorems and extensions in Chebyshev rational approximation to certain entire functions in $[0, +\infty)$. *Bull. Amer. Math. Soc.* 77 (1971), 460-461. (A. Meir) 42 #7911

Taylor, H. S.

(with Stecki, J.) On the areas of equivalence of the Bogoliubov theory and the Prigogine theory of irreversible processes in classical gases. *Rev. Modern Phys.* 37 (1965), 762-773. (R. Balescu) 32 #8912

Taylor, Howard M.

Markovian sequential replacement processes. *Ann. Math. Statist.* 36 (1965), 1677-1694. (T. S. Ferguson) 32 #7259

Statistical control of a Gaussian process. *Technometrics* 9 (1967), 29-41. (L. Törnqvist) 35 #6312

Optimal stopping in a Markov process. *Ann. Math. Statist.* 39 (1968), 1333-1344. (N. C. Jain) 38 #769

(with Iglehart, Donald L.) Weak convergence of a sequence of quickest detection problems. *Ann. Math. Statist.* 39 (1968), 2149-2153. (L. A. Aroian) 38 #3987

A Markov stopping problem for which no entry time is ε-optimal. *Ann. Math. Statist.* 41 (1970), 2105-2112. (E. S. Boylan) 42 #3858

Taylor, J. B.

(with Hastie, R. J.) Stability of magnetic wells at finite plasma pressure. *Phys. Rev. Lett.* 13 (1964), 123-124. (T. J. M. Boyd) 29 #3202

Taylor, J. C.

(with Polkinghorne, J. C.) Feinberg-Pais equation for the trace of ladder diagrams. *Phys. Rev.* (2) 134 (1964), B420-B423. (G. Feinberg) 29 #972a

(with Elias, D. K.; Papastamatiou, N. J.) Time reversal in SU(6) and $\tilde{U}(12)$. *Phys. Lett.* 16 (1965), 188. (S. L. Glashow) 32 #892a

(with Papastamatiou, N. J.) Approximate supermultiplet model consistent with relativity and unitarity. *Phys. Rev.* (2) 140 (1965), B1415-B1420. (R. Delbourgo) 32 #5229

Taylor, John C.

A class of translation lattices. *Canad. J. Math.* 17 (1965), 31-39. (D. G. Johnson) 30 #1406

Weak families of maps. *Canad. Math. Bull.* 8 (1965), 771-781. (S. P. Franklin) 35 #2944

The Feller and Šilov boundaries of a vector lattice. *Illinois J. Math.* 10 (1966), 680-693. (H. Bauer) 34 #594

The Šilov boundary for a lattice-ordered semigroup. *Pacific J. Math.* 25 (1968), 185-191. (D. G. Johnson) 37 #745

The Martin boundaries of equivalent sheaves. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 433-456. (R. M. Hervé) 42 #2022

Taylor, J. W.

An extension of Stone's partitioning theorem for ordered sets. *Mathematika* 18 (1971), 5-7. (A. H. Stone) 44 #5230

Taylor, James H.

(with Narendra, Kumpati S.) Lyapunov functions for nonlinear time-varying systems. *Information and Control* 12 (1968), 378-393. (A. Strauss) 38 #5491 (E)

(with Narendra, Kumpati S.) Correction to: "Lyapunov functions for nonlinear time-varying systems". *Information and Control* 15 (1969), 453. (A. Strauss) 40 #8474

(with Narendra, Kumpati S.) Stability regions for the damped Mathieu equation. *SIAM J. Appl. Math.* 17 (1969), 343-352. (Editors) 40 #480

(with Narendra, Kumpati S.) The Corduneanu-Popov approach to the stability of nonlinear time-varying systems. *SIAM J. Appl. Math.* 18 (1970), 267-281. (E. T. Wall) 41 #2153

Taylor, John G.

On the field equations. I. Canonical form. *Nuovo Cimento Suppl.* (1) 1 (1963), 862-904. (J. Gunson) 34 #3925; erratum, 38, p. 1376

On the field equations. II. Perturbation theory. *Nuovo Cimento Suppl.* (1) 1 (1963), 905-933. (J. Gunson) 34 #3926; erratum, 38, p. 1376

On the field equations. III. Nonperturbative approximations. *Nuovo Cimento Suppl.* (1) 1 (1963), 934-965. (J. Gunson) 34 #3927; erratum, 38, p. 1376

On the field equations. IV. Nonrenormalizable interactions. *Nuovo Cimento Suppl.* (1) 1 (1963), 966-987. (J. Gunson) 34 #3928; erratum, 38, p. 1376

On the field equations. V. The two-particle approximation. *Nuovo Cimento Suppl.* (1) 1 (1963), 988-1018. (J. Gunson) 34 #3929; erratum, 38, p. 1376

On the field equations. VI. Stability and composite properties of particles. *Nuovo Cimento Suppl.* (1) 1 (1963), 1019-1032. (J. Gunson) 34 #3930; erratum, 38, p. 1376

Analyticity of field theory. *Phys. Rev.* (2) 136 (1964), B1134-B1136. (J. N. Islam) 32 #6978

On polynomial systems in a Banach ring. *J. Mathematical Phys.* 6 (1965), 1148-1151. (H. Araki) 31 #1933 (E)

Erratum: On polynomial systems in a Banach ring. *J. Mathematical Phys.* 7 (1966), 1340. (Editors) 33 #3979

On the existence of field theory. I. The analytic approach. *J. Mathematical Phys.* 7 (1966), 1720-1729. (D. I. Olive) 34 #2278

Fixed point methods in quantum field theory. *Lectures in Theoretical Physics. Vol. IXA: Mathematical Methods of Theoretical Physics (Proceedings Ninth Boulder Summer Institute for Theoretical Physics, Univ. Colorado, Boulder, Colo., 1966), pp.* 353-400. *Gordon and Breach, New York,* 1967. (Editors) 38 #6814

Topological degree of non-compact mappings. *Proc. Cambridge Philos. Soc.* 63 (1967), 335-347. (R. H. Kasriel) 36 #863

(with Broido, Michael M.) Bethe-Salpeter equation. *J. Mathematical Phys.* 10 (1969), 184-209. (N. Nakanishi) 38 #5445

Local commutativity for nonlocalisable fields. *Ann. Physics* 68 (1971), 484-498. (R. F. Streater) 44 #6264

Taylor, John R.

Unitarity, hermiticity and discontinuity relations. *Nuclear Phys.* 58 (1964), 580-592. (John G. Taylor) 33 #2231

Place of Hilbert space in *S*-matrix theory. *Phys. Rev.* (2) 140 (1965), B187-B191. (D. I. Olive) 32 #6979

Spin and isospin in *S*-matrix theory. *J. Mathematical Phys.* 7 (1966), 181-196. (D. I. Olive) 32 #5082

Cluster decomposition of S-matrix elements. *Phys. Rev.* (2) 142 (1966), 1236-1245. (J. M. Charap) 34 #1038

(with Stolt, Robert H.) Correspondence between the first- and second-quantized theories of paraparticles. *Nuclear Phys.* B19 (1970), 1-19. (L. M. Garrido) 43 #7167

Taylor, Joseph L.

The Tomita decomposition of rings of operators. *Trans. Amer. Math. Soc.* 113 (1964), 30-39. (S. Sakai) 29 #5120

The Shilov boundary of the algebra of measures on a group. *Proc. Amer. Math. Soc.* 16 (1965), 941-945. (A. Kleppner) 32 #2931

The structure of convolution measure algebras. *Trans. Amer. Math. Soc.* 119 (1965), 150-166. (A. Kleppner) 32 #2932

Convolution measure algebras with group maximal ideal spaces. *Trans. Amer. Math. Soc.* 128 (1967), 257-263. (A. C. M. van Rooij) 35 #3375

Ideal theory and Laplace transforms for a class of measure algebras on a group. *Acta Math.* 121 (1968), 251-292. (A. B. Willcox) 38 #4923

Noncommutative convolution measure algebras. *Pacific J. Math.* 31 (1969), 809-826. (P. Civin) 41 #844

L-subalgebras of $M(G)$. *Trans. Amer. Math. Soc.* 135 (1969), 105-113. (R. A. Hirschfeld) 38 #1472

Several variable spectral theory. *Functional Analysis (Proc. Sympos., Monterey, Calif., 1969)*, 1-10. *Academic Press, New York,* 1970. (J. D. Gray) 42 #6623

The analytic-functional calculus for several commuting operators. *Acta Math.* 125 (1970), 1-38. (D. N. Clark) 42 #6622

Measures which are convolution exponentials. *Bull. Amer. Math. Soc.* 76 (1970), 415-418. (R. G. Douglas) 41 #5986

A joint spectrum for several commuting operators. *J. Functional Analysis* 6 (1970), 172-191. (E. R. Deal) 42 #3603

Taylor, Laird E.

(See Proceedings of the Carolina Conference on Holomorphic Mappings and Minimal Surfaces (Chapel Hill, N. C., March 30-April 3, 1970, 42 #6276)

Taylor, Laurence

Residues of Fibonacci-like sequences. *Fibonacci Quart.* 5 (1967), 298-304. (S. L. Segal) 36 #5074

Taylor, Leonard S.

Radio waves in turbulent magnetoplasmas. *Phys. Fluids* 8 (1965), 492-499. (R. A. Hurd) 32 #5024

Taylor, Michael E.

Functions of several self-adjoint operators. *Proc. Amer. Math. Soc.* 19 (1968), 91-98. (H. Langer) 36 #3149

Fourier series on compact Lie groups. *Proc. Amer. Math. Soc.* 19 (1968), 1103-1105. (R. C. Busby) 37 #6690

Analytic properties of elliptic and conditionally elliptic operators. *Proc. Amer. Math. Soc.* 28 (1971), 317-318. (P. Schapira) 43 #2352

Taylor, N. W.

Some conformally separable metrics in flat space and their application to accelerated coordinate frameworks in special relativity. *J. Austral. Math. Soc.* 8 (1968), 515-522. (H. Rund) 37 #5022

Taylor, P. J.

A generalisation of systematic relaxation methods for consistently ordered matrices. *Numer. Math.* 13 (1969), 377-395. (D. M. Young, Jr.) 41 #4788

The stability of the Du Fort-Frankel method for the diffusion equation with boundary conditions involving space derivatives. *Comput. J.* 13 (1970), 92-97. (Author's summary) 41 #1248

The linear stability of no-slip boundary conditions in the numerical solution of nonsteady fluid flows. *J. Computational Phys.* 6 (1970), 268-287. (G. T. McAllister) 44 #2367

(with Phillips, G. M.) Approximation of convex data. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 324-332. (Authors' summary) 42 #7035

Taylor, Peter D.

The structure space of a Choquet simplex. *J. Functional Analysis* 6 (1970), 208-217. (W. A. J. Luxemburg) 42 #3538

Taylor, R. E.

(with Ghare, P. M.) Optimal redundancy for reliability in series systems. *Operations Res.* 17 (1969), 838-847. (Authors' summary) 40 #2341

Taylor, R. F.

On some properties of bounded internal functions. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif., 1967)*, pp. 167-170. *Holt, Rinehart and Winston, New York,* 1969. (L. D. Kugler) 39 #1320

(with Luxemburg, W. A. J.) Almost commuting matrices are near commuting matrices. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 96-98. (H. J. Biesterfeldt, Jr.) 41 #3502

Taylor, R. L.

Creep and relaxation. *AIAA J.* 2 (1964), 1659-1660. (T. G. Rogers) 30 #772

Taylor, R. S.

(with Arscott, F. M.) Lamé's equation and its use in elliptic cone problems. *J. Inst. Math. Appl.* 7 (1971), 331-336. (Authors' summary) 44 #1850

Taylor, S. J.

The exact Hausdorff measure of the sample path for planar Brownian motion. *Proc. Cambridge Philos. Soc.* 60 (1964), 253-258. (T. Watanabe) 29 #1677

* (with Kingman, J. F. C.) Introduction to measure and probability. *Cambridge University Press, London-New York-Ibadan,* 1966. x + 401 *pp.* (Y. S. Chow) 36 #1601

Multiple points for the sample paths of the symmetric stable process. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 247-264. (J. G. Wendel) 34 #2066

(with Wendel, J. G.) The exact Hausdorff measure of the zero set of a stable process. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 170-180. (C. Stone) 35 #1090

Sample path properties of a transient stable process. *J. Math. Mech.* 16 (1967), 1229-1246. (J. G. Wendel) 34 #8493

(with Pruitt, W. E.) The potential kernel and hitting probabilities for the general stable process in R^N. *Trans. Amer. Math. Soc.* 146 (1969), 299-321. (S. C. Port) 40 #3611

(with Pruitt, W. E.) Sample path properties of processes with stable components. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 267-289. (N. C. Jain) 41 #2773

Taylor, T. M.

Determination of a realistic error bound for a class of imperfect nonlinear controllers. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968)*, *pp.* 522-537. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the author's summary) 40 #2379

Taylor, Tekla. See Lewin, Tekla.

Taylor, Thomas D.

Computing transient gas flows with shock waves. *Phys. Fluids* 7 (1964), 1713-1715. (D. C. Pack) 30 #5637

Taylor, Walter

Atomic compactness and graph theory. *Fund. Math.* 65 (1969), 139-145. (B. Węglorz) 40 #81

Generalized chromatic numbers. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969)*, *pp.* 421-422. *Gordon and Breach, New York,* 1970. (R. E. Greenwood) 42 #2981

Compactness and chromatic number. *Fund. Math.* 67 (1970), 147-153. (B. Węglorz) 42 #3009

Convergence in relational structures. *Math. Ann.* 186 (1970), 215-227. (S. P. Franklin) 41 #4478

(with Fuhrken, G.) Weakly atomic-compact relational structures. *J. Symbolic Logic* 36 (1971), 129-140. (J. M. Plotkin) 44 #2590

Taylor, William J.

Evaluation in closed form of integrals of products of spherical Bessel functions related to the bipolar expansion. *Chem. Phys. Lett.* 3 (1969), 512-516. (T. Sasakawa) 41 #9519

Taylor, Wilson L.

Correcting the average rank correlation coefficient for ties in rankings. *J. Amer. Statist. Assoc.* 59 (1964), 872-876. (Author's summary) 29 #2897

Tayoshi, Takao

(with Ikebe, Teruo) Wave and scattering operators for second-order elliptic operators in R^3. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 483-496. (J. S. Howland) 40 #3339

Tazabekov, R.

The averaging method in the theory of nonlinear integro-differential equations of Volterra type. (Russian) *Izv. Akad. Nauk Kirgiz. SSR* 1967, *no.* 4, 41-48. (O. E. Stanaitis) 35 #7099

The averaging method in systems of nonlinear integro-differential equations that contain fast and slow variables. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No. 6 (Russian)*, *pp.* 244-265. *Izdat. "Ilim", Frunze,* 1969. (L. Guggenbuhl) 44 #2007

Tazawa, Yoshihiko

A remark on a closed orientable hypersurface with constant reduced mean curvature. *J. Fac. Sci. Hokkaido Univ. Ser. I* 20 (1968), 101-108. (A. Aeppli) 39 #2100

A remark on a star-shaped hypersurface with constant reduced mean curvature. *J. Fac. Sci. Hokkaido Univ. Ser. I* 21 (1970), 122-124. (J. K. Shahin) 42 #6762

Tažimuratov, I.

Existence of quasi-periodic solutions of Ljapunov systems. (Russian) *Equations of Math. Phys. and Funct. Anal. (Russian)*, *pp.* 154-159. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1966. (Wolfdietrich Müller) 34 #6252

On the existence of almost periodic solutions to systems close to those of Ljapunov. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 102-106. (W. A. Coppel) 34 #3014

Application of Poincaré's method to a system of quasilinear equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 3, 90-95. (W. S. Loud) 34 #425

An estimate of the region of convergence of the periodic series of solutions of some partial differential equations with small parameter. (Russian) *Differential Equations and their Appl. (Russian), pp.* 52-56. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. (L. Arkeryd) 36 #502

(with Harasahal, V. V.) The existence of periodic solutions of systems of linear homogeneous partial differential equations. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 57-62. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (T. Kusano) 39 #7267

(with Šakibaliev, R.) The existence of periodic solutions of a certain system of second order partial differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1971, *no.* 1, 78-81. (O. Vejvoda) 44 #7104

Tazzi Cantalupi, Gabriella

Alcuni teoremi esistenziali sui fasci reali massimali di curve algebriche. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 763-772. (P. Du Val) 29 #3942

Sui singrammi cubici hamiltoniani di corrispondenza inversa. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 319-326. (O. Ore) 30 #5305

Sul rango di un singramma cubico hamiltoniano di corrispondenza diretta. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 99 (1965), 895-903. (O. Ore) 33 #4919

Su un teorema in geometria non euclidea. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 100 (1966), 771-778. (H. R. Müller) 35 #4803

Quartiche gobbe reali di genere $p = 1$ nello spazio iperbolico. (English summary) *Atti Accad. Ligure Sci. Lett.* 23 (1966), 154-158 (1967). (K. Strubecker) 40 #1868

Tchacaloff, Lhristo. See Čakalov, Ljubomir N.

Tchakaloff, Lubomir. See Čakalov, Ljubomir N.

Tchakaloff, Vladimir. See Čakalov, Vladimir

Tchakhtaouri, A. I. See Čahtauri, A. I.

Tchamran, A.

On Bellman's functional equation and a class of time-optimal control systems. *J. Franklin Inst.* 280 (1965), 493-505. (From the author's summary) 32 #3898

A new derivation of the maximum principle. *J. Math. Anal. Appl.* 25 (1969), 350-361. (L. D. Berkovitz) 38 #1578

Tchebychef, P. L. See Čebyšev, P. L.

Tchebotarev, G. A. See Čebotarev, G. A.

Tchélidzé, W. G. See Čelidze, V. G.

Tcherkassow, I. D. See Čerkasov, I. D.

Tchernikoff, S. See Černikov, S. M.

Tchernikow, S. See Černikov, S. M.

Tchetveroukhine, N. See Četveruhin, N. F.

Tchounikhin, S. A. See Čunihin, Sergeĭ Antonovič.

Tchounikhine, S. A. See Čunihin, Sergeĭ Antonovič.

Tchrakian, D. H.

Comparison of the null-spinor and current-conservation gauge conditions. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 1-10. (H. S. P. Grässer) 43 #4397

Tchudakoff, N. G. See Čudakov, N. G.

Tchudakov, N. G. See Čudakov, N. G.

Te, Chiang Hu. See Hu, Te Chiang

Tèbyrcè, E. I.

Certain questions on the theory of homotopies in quasigroups. (Russian) *Studies in General Algebra, No.* 1 *(Russian), pp.* 74-81. *Kišinev. Gos. Univ., Kishinev,* 1968. (R. E. Peinado) 41 #5536

Tedeev, S. A.

On integral transformations of a function of one variable. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962*)(Russian), pp.* 620-627. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (E. Riekstiņš) 33 #7797

On the transformations of simple sequences. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962*)(Russian), pp.* 628-636. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (F. Ustina) 34 #3154

Tedeschi, Bruno

Su un particolare "cammino a caso". (French, English, Spanish and German summaries) *Giorn. Ist. Ital. Attuari* 27 (1964), 12-23. (W. H. Fleming) 30 #4304

Tee, G. J.

(with Martin, D. W.) Iterative methods for linear equations with symmetric positive definite matrix. *Comput. J.* 4 (1961/62), 242-254. (Authors' summary) 29 #5374

(See also Saul'ev, V. K., 33 #6153)

A novel finite-difference approximation to the biharmonic operator. *Comput. J.* 6 (1963/64), 177-192. (D. M. Young, Jr.) 29 #6646

A new technique for solving elliptic partial differential equations. *J. Soc. Indust. Appl. Math.* 12 (1964), 311-347. (D. Greenspan) 29 #4216

An application of p-cyclic matrices, for solving periodic parabolic problems. *Numer. Math.* 6 (1964), 142-159. (R. S. Varga 30 #1619

Tefova, E. L.

(with Skopec, Z. A.) The mapping of straight lines of a thre dimensional Euclidean space onto punctured circles. (Russian) Proceedings of the Annual Scientific Conference. (Nal'chik, 1965) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 227-237. (D. Palman) 36 #768

A model of biaxial space on a Euclidean plane. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 247-261. (E. J. F. Primrose) 35 #7191

Two new theorems on the Lobačevskiĭ plane. (Russian) Procee ings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 262-266. (M. C. Chaki) 36 #2048

Tefteller, S. C.

(with Etgen, G. J.) A two-point boundary problem for nonlinea second order differential systems. *SIAM J. Math. Anal.* 2 (1971), 64-71. (D. Hinton) 44 #5544

Teghem, Jacqueline Loris. See Loris-Teghem, Jacqueline.

Teghem, Jean

Les processus de Markov et les phénomènes d'attente. *Bull. Soc. Math. Belg.* 15 (1963), 45-68. (H. Bauer) 29 #4114

Décisions séquentielles. *Bull. Soc. Math. Belg.* 16 (1964), 23-40. (D. V. Lindley) 31 #3265

Processus de décision markoviens, continus dans le temps. *Bull. Soc. Math. Belg.* 18 (1966), 245-259. (D. V. Lindley) 35 #1091

* (with Loris-Teghem, J.; Lambotte, J. P.) Modèles d'attente $M/G/1$ et $GI/M/1$ à arrivées et services en groupes. Lecture Notes in Operations Research and Mathematical Economics, No. 8. *Springer-Verlag, Berlin-New York,* 1969. ii + 53 *pp.* (R. Fischler) 40 #666

la Tegola, Antonio. See La Tegola, Antonio.

Teh, Hoon Heng

On 3-valued sentential calculus. An axiomatic approach. *Bull. Math. Soc. Nanyang Univ.* 1963, 1-37. (S. Jaśkowski) 29 #11

(with Chen, C. C.) Some contributions to the study of universa algebras. *Bull. Math. Soc. Nanyang Univ.* 1964, 1-62. (S. P. Bandyopadhyay) 32 #4063

(with Lim, M. H.) The net concept in the study of abstract algebras and groups. *Bull. Math. Soc. Nanyang Univ.* 1964, 139-152. (W. E. Deskins) 32 #77

(with Yap, H. P.) Some construction problems of homogeneous graphs. *Bull. Math. Soc. Nanyang Univ.* 1964, 164-196. (F. Harary) 31 #4739

(with Chen, C. C.) Embedding theorems of homogeneous graphs. *Bull. Math. Soc. Nanyang Univ.* 1965, 21-30. (J. W. Moon) 34 #1232

(with Jha, P.) Various constructions of regular graphs. *Bull. Math. Soc. Nanyang Univ.* 1965, 31-44. (J. W. Moon) 34 #1233

(with Chen, C. C.) Direct limit of universal algebras. *Bull. Math. Soc. Nanyang Univ.* 1965, 48-58. (A. Yaqub) 34 #5733

On a class of distributive lattice orders. *Nanta Math.* 1 (1966/67), 19-22. (G. S. Monk) 37 #111

(with Loh, H. T.) Some theorems of groupoid semirings. *Nanta Math.* 1 (1966/67), 33-37. (D. A. Robinson) 37 #259

(with Tang, G. S.) A remark on the relation between groupoid semirings and matrix semirings. *Nanta Math.* 1 (1966/67), 38-39. (D. A. Robinson) 37 #260

(with Liaw, S. K.) Embedding a T_1 space in a T_1 group space. *Nanta Math.* 1 (1966/67), 44-49. (S. Swaminathan) 37 #3503

(with Loh, H. T.) On the dimension of product graphs. *Nanta Math.* 1 (1966/67), 68-71. (F. Harary) 37 #96

(with Ng, C. P.) On finite graphs of diameter 2. *Nanta Math.* 1 (1966/67), 72-75. (J. W. Moon) 37 #95

A fundamental theorem concerning the chromatic number of a group graph. *Nanta Math.* 1 (1966/67), 76-81. (W. T. Tutte) 37 #2631

(with Ang, S. L.) Finite homogeneous auto-extensions of graphs. *Nanta Math.* 1 (1966/67), 82-86. (J. W. Moon) 37 #94

Structure of commutative lattice ordered groups. *J. Nanyang Univ.* 1 (1967), 265-278. (S. J. Bernau) 38 #4382

(with Kuan, K. S.) Normal extensions of partial orders of a group. *J. Nanyang Univ.* 1 (1967), 279-288. (S. J. Bernau) 38 #568

(with Choo, E. U.) Some results on coherent graphs. *J. Nanyang Univ.* 1 (1967), 289-308. (F. Harary) 38 #3181

(with Sim, Soon Kiong) Three simple theorems of graphs. *J. Nanyang Univ.* 1 (1967), 309-323. (Editors) 38 #1020 (with Jha, P.) Some algebraic structures on pseudometrics of a set. *J. Nanyang Univ.* 2 (1968), 259-265. (H. J. Weinert) 41 #1001

(with Chen, C. C.) Extensions of partial orders on a class of universal algebras. *Nanta Math.* 2 (1968), 54-67. (M. Gould) 38 #3211

A universal isomorphism theorem of universal algebras. *Nanta Math.* 3 (1968/69), 1-12. (I. Sussman) 40 #5527

Generalizations of Zassenhaus' lemma for universal algebras. *Nanta Math.* 3 (1968/69), 13-19. (I. Sussman) 40 #5528

Fundamentals of group graphs. *J. Nanyang Univ.* 3 (1969), 321-344. (R. L. Hemminger) 42 #132

(with Yeo, L. H.) Further results of group graphs. *J. Nanyang Univ.* 3 (1969), 345-379. (R. L. Hemminger) 42 #133

On point-edge symmetric directed graphs. *Nanta Math.* 3 (1969), *no.* 2, 1-12. (R. L. Hemminger) 42 #134

Constructions of strongly $K_1 + K_2 + \cdots + K_n$ symmetric graphs. *Nanta Math.* 3 (1969), *no.* 2, 13-22. (L. W. Beineke) 42 #1703

Dimensions and auto-extensions of graphs. *Nanta Math.* 3 (1969), *no.* 2, 23-32. (From the author's introduction) 42 #118

(with Tan, K. H.) Finite auto-extensions of graphs. *Nanta Math.* 3 (1969), *no.* 2, 33-41. (From the authors' introduction) 42 #119

On an existence theorem of strongly cyclic-symmetric group graphs. *Nanta Math.* 3 (1969), *no.* 2, 42-48. (W. T. Tutte) 42 #135

On star-symmetric group graphs. *Nanta Math.* 3 (1969), *no.* 2, 49-54. (W. T. Tutte) 42 #136

(with Loh, Hooi-tong) On a class of strongly K_n-symmetric point set graphs. *Nanta Math.* 3 (1969), *no.* 2, 77-83. (W. T. Tutte) 42 #112

An algebraic representation theorem of finite regular graphs. *Nanta Math.* 3 (1969), *no.* 2, 88-94. (W. T. Tutte) 42 #137

Teh, Wu Tsen. See Wu, Chen-he.

Teicher, Henry

(with Chow, Y. S.; Robbins, Herbert) Moments of randomly stopped sums. *Ann. Math. Statist.* 36 (1965), 789-799. (L. L. Helms) 31 #2777

On random sums of random vectors. *Ann. Math. Statist.* 36 (1965), 1450-1458. (J. R. Blum) 31 #4074

On the maximum of a stationary Gaussian sequence. *Sankhyā Ser. A* 27 (1965), 423-424. (Simeon M. Berman) 34 #2078

(with Chernoff, Herman) Limit distributions of the minimax of independent identically distributed random variables. *Trans. Amer. Math. Soc.* 116 (1965), 474-491. (Simeon M. Berman) 32 #3102

(with Chow, Y. S.) On second moments of stopping rules. *Ann. Math. Statist.* 37 (1966), 388-392. (L. L. Helms) 33 #753

Higher moments of randomly stopped sums. (Russian summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 179-185. (Yuan S. Chow) 33 #6678

(with Wolfowitz, J.) Existence of optimal stopping rules for linear and quadratic rewards. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 361-368. (Y. S. Chow) 35 #1162

(with Dubins, Lester E.) Optimal stopping when the future is discounted. *Ann. Math. Statist.* 38 (1967), 601-605. (Y. S. Chow) 36 #1034

Identifiability of mixtures of product measures. *Ann. Math. Statist.* 38 (1967), 1300-1302. (M. Iosifescu) 35 #7464

A dominated ergodic type theorem. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 113-116. (D. L. Burkholder) 35 #6190

Some new conditions for the strong law. *Proc. Nat. Acad. Sci. U.S.A.* 59 (1968), 705-707. (A. Fuchs) 36 #5990

(with Chow, Y. S.) Almost certain summability of independent, identically distributed random variables. *Ann. Math. Statist.* 42 (1971), 401-404. (H. H. Stratton) 43 #5583

Teichmann, Eckhard

(with Prössdorf, Siegfried) Über die äquivalent rechte Regularisierung einer singulären Integralgleichung nicht normalen Typs. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 361-365. (H. C. Kranzer) 43 #6675

Teichmann, Jiří

MHD theory of stationary interaction between a high-frequency field and a plasma in non-homogeneous fields. *Nuclear Fusion* 5 (1965), 107-120. (J. L. Johnson) 32 #3749

Teichroew, Daniel

A history of distribution sampling prior to the era of the computer and its relevance to simulation. *J. Amer. Statist. Assoc.* 60 (1965), 27-49. (Author's summary) 30 #5399

Teĭmurov, F. D.

Transverse shock on a flexible string in a resisting medium. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 21 (1965), *no.* 9, 3-7. (S. Kaliski) 33 #6928

Teipel, Ingolf

Similarity solutions in unsteady boundary layer theory in magneto-fluid dynamics. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 588-597. (R. R. Gold) 30 #5664

Teissier, Bernard

(with Lejeune, Monique; Lê Dũng Tráng) Sur un critère d'équisingularité. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1065-A1067. (J. A. Morrow) 43 #3264

Teissier, Marianne Guillemot. See Guillemot-Teissier, Marianne.

Tèĭt, Dž. See Tate, John T.

Teitelboim, Claudio

Splitting of the Maxwell tensor: Radiation reaction without advanced fields. *Phys. Rev. D* (3) 1 (1970), 1572-1582. (C. Gilbert) 41 #9556

Teitler, S.

Isotopic space, complex conjugation, and U_3 symmetry for particles. *J. Mathematical Phys.* 6 (1965), 1976-1979. (R. L. Ingraham) 32 #2098

"Vector" Clifford algebras and the classical theory of fields. *Nuovo Cimento Suppl.* (1) 3 (1965), 1-14. (R. L. Ingraham) 32 #4892

Concerning metric and constitutive relations in electromagnetic theory. *Nuovo Cimento Suppl.* (1) 3 (1965), 15-21. (R. L. Ingraham) 32 #4893

The structure of 4-spinors. *J. Mathematical Phys.* 7 (1966), 1730-1738. (H. A. Buchdahl) 34 #3965

Lorentz equivalence, unitary symmetry, and spin unitary symmetry. *J. Mathematical Phys.* 7 (1966), 1739-1743. (H. A. Buchdahl) 34 #3966

Teixeira, Antonio F. F.

(with Ferreira, Erasmo M.) On the poles of the S matrix for long-range potentials. *J. Mathematical Phys.* 7 (1966), 1207-1217. (R. G. Newton) 33 #6989

Teixeira, Mário Tourasse

Characterization of conditionals by the consequence operator. (Portuguese) *Proc. Third Brazilian Math. Colloq. (1961) (Portuguese)* [*Summa Brasil. Math.* 5 (1962)], *pp.* 214-216. *Conselho Nacional de Pesquisas, São Paulo,* 1962. (H. B. Curry) 35 #2727

Representation of M-algebras. (Portuguese) *Proc. Fifth Brazilian Math. Colloq.* (1965) *(Portuguese), pp.* 151-152. *Conselho Nacional de Pesquisas, São Paulo,* 1965. (B. M. Schein (Šaĭn)) 34 #5717

Introduction to a complex phase space. (Portuguese) *Gaz. Mat. (Lisboa)* 27 (1966), *no.* 103-104, 25-32. (J. J. Etayo) 42 #4764

Teixeira de Queiroz, F.

On a generalization of Taylor's formula. (Portuguese) *Gaz. Mat. (Lisboa)* 25 (1964), *no.* 96-97, 1-4. (E. Frank) 31 #4896; erratum, 39, p. 1592

Teixidor, J.

On the secular equation. (Spanish) *Collect. Math.* 14 (1962), 301-302. (M. J. Wonenburger) 30 #1135

Tẹjumọla, H. O.

(with Ezeilo, J. O. C.) Boundedness and periodicity of solutions of a certain system of third-order non-linear differential equations. *Ann. Mat. Pura Appl.* (4) 74 (1966), 283-316. (J. A. Marlin) 34 #4625

On the convergence of solutions of certain third-order differential equations. *Ann. Mat. Pura Appl.* (4) 78 (1968), 377-386. (Joseph C. Wilson) 37 #3107

Boundedness and periodicity of solutions of certain fourth-order differential equations. *Ann. Mat. Pura Appl.* (4) 80 (1968), 177-196. (G. R. Sell) 39 #7218

On the boundedness and periodicity of solutions of certain third-order non-linear differential equations. *Ann. Mat. Pura Appl.* (4) 83 (1969), 195-212. (G. R. Sell) 41 #7203

Tekeli, Sevim

"The duplication of the cube" *Zail-i Tahrir al Uqlidas, Majmua*^{c} and *Sidra al Muntahâ. Actes XII*^{e} *Congrès Internat. d'Histoire des Sciences (Paris,* 1968*), Tome III A: Science et Philosophie: Antiquité, Moyen Âge, Renaissance, pp.* 137-140. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (E. S. Kennedy) 44 #13

Telakovsky, S. A. See Teljakovskiĭ, S. A.

Telegin, V. I.

Problem for nonlinear equations in plasma dynamics. *Dokl. Akad. Nauk SSSR* 192 (1970), 524-527 *(Russian); translated as Soviet Physics Dokl.* 15 (1970/71), 458-460. (T. Kahan) 43 #2909

Teleman, Costake

Sur la structure de certains groupes topologiques. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague,* 1961*), p.* 351. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (Editors) 30 #3938

Sur les connexions infinitésimales qu'on peut définir dans les structures fibrées différentiables de base donnée. *Ann. Mat. Pura Appl.* (4) 62 (1963), 379-412. (S. Kobayashi) 29 #1597

* Elemente de topologie şi varietăţi diferenţiabile. (Romanian) [Elements of topology and differentiable manifolds] Ministry of Education. University of Bucharest, Faculty of Mathematics and Mechanics. *Editura Didactică şi Pedagogică, Bucharest,* 1964. 290 *pp.* (H. W. Guggenheimer) 33 #7997

* (with Vrănceanu, G.) Geometria euclidiană, geometrii neeuclidiene, teoria relativităţii. (Romanian) [Euclidean geometry, non-euclidean geometry, theory of relativity] *Editura Ştiinţifică, Bucharest,* 1965. 325 *pp. (loose errata)* (H. A. Eliopoulos) 34 #6596

On a class of homogeneous Riemannian spaces. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1529-1537. (G. Tallini) 35 #4849

Sur une théorie générale des connexions. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 10(58) (1966), 179-199 (1967). (H. Osborn) 36 #4587

Sur les équations de Maurer-Cartan. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 839-842. (B. L. Reinhart) 34 #7707

(with Vrănceanu, G.; Hangan, Th.) Recherches de géométrie différentielle en Roumanie. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1147-1156. (P. Vincensini) 35 #882

On spaces with constant affine and locally euclidean connection. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 783-797. (P. Drăgilă) 37 #5814

* (with Vrănceanu, Gh.) Geometrie euclidiană, geometrii neeuclidiene, teoria relativităţii. (Romanian) [Euclidean geometry, non-euclidean geometries, theory of relativity] Second edition. *Editura Tehnică, Bucarest,* 1967. 335 *pp.* (From the authors' preface) 37 #805

* Злементь топологии и дифференцируемые многообразия. (Russian) [Elements of topology and differentiable manifolds] Translated from the Romanian by N. M. Ostianu. Edited by G. F. Laptev. *Izdat. "Mir", Moscow,* 1967. 390 *pp.* (Editors) 37 #2215

Differential geometry on non-separated manifolds. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 16 (1967), *no.* 2, 65-89. (L. A. Santaló) 39 #2082

Sur le caractère de Chern d'un fibré vectoriel complexe différentiable. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 725-731. (K. H. Mayer) 36 #7154

* Grundzüge der Topologie und differenzierbare Mannigfaltigkeiten. Aus dem Rumänischen übersetzt von Horst Antelmann. Mathematische Monographien, 8. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1968. 411 *pp. (loose errata)* (From the foreword to the German edition) 43 #1168

Differentiable mappings of R^m to R^n. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 17 (1968), *no.* 1, 69-83. (Author's summary) 40 #3455

On the principal series of unitary representations of the group SGL(n,C). *Rev. Roumaine Math. Pures Appl.* 13 (1968), 91-93. (J. Rosen) 37 #1524

Connections and bundles. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 89-103. (S. Kobayashi) 38 #6487

Connections and bundles. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 104-112. (S. Kobayashi) 38 #6488

Teleman, Nicolae

A geometric definition of some forms of André Weil which may be associated with an infinitesimal connection. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 753-762. (A. Aeppli) 35 #922

Classification of homogeneous Riemannian spaces V_4 of relativistic type. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 67-125. (I. Vaisman) 41 #6125

Spaces of germs and jets. *Ann. Mat. Pura Appl.* (4) 87 (1970), 39-43. (P. Molino) 43 #5557

On $K(X,A)$. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1541-1544. (P. S. Landweber) 42 #8479

Teleman, Silviu

Sur les ensembles compacts de fonctions sommables. *Rev. Math. Pures Appl.* 6 (1961), 659-684. (V. È. Ljance (RŽMat 1962 #12 B379)) 30 #413

Harmonic analysis on regular algebras. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1421-1470. (Editors) 39 #778

La représentation des automorphismes des réseaux vectoriels. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 95-105. (H. Gordon) 37 #6733

On the relativization of set functions. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 683-689. (W. D. L. Appling) 38 #2271

Analyse harmonique dans les algèbres régulières. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 691-750. (S. K. Berberian) 39 #779

Représentation par faisceaux des modules sur les anneaux harmoniques. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A753-A756. (K. H. Hofmann) 41 #276

Théorème de de Rham pour les algèbres harmoniques. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1119-A1121. (K. H. Hofmann) 41 #3570

La représentation des anneaux tauberiens discrets par des faisceaux. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 249-264. (K. H. Hofmann) 40 #737a

La représentation des anneaux réguliers par les faisceaux. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 703-717. (K. H. Hofmann) 40 #737b

Sur les anneaux réguliers. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 407-434. (S. K. Berberian) 41 #8472

On the regular rings of John von Neumann. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 735-742. (S. Sankaran) 42 #848

Telenin, G. F.

(with Rosljakov, G. S.) A survey of works on the numerical investigation of exterior and interior problems of aerodynamics that were carried out at Moscow University. (Russian) *Computing Methods and Programming, XI: Numerical Methods in Gas Dynamics (Russian), pp.* 93-112. *Izdat. Moskov. Univ., Moscow,* 1968. (Editors) 44 #1237

Telgársky, Rastislav

Some applications of the natural sum of ordinals in topology. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 1-2. (C. R. Borges) 41 #6148

Total paracompactness and paracompact dispersed spaces. (Loos Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom Phys.* 16 (1968), 567-572. (J. W. Rogers, Jr.) 38 #3826

Star-finite coverings and local compactness. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 625-628. (C. R. Borges) 40 #1994

Derivatives of cartesian product and dispersed spaces. *Collc Math.* 19 (1968), 59-66. (E. C. Milner) 36 #7105

(with Duda, Roman) On some covering properties of metric spaces. *Czechoslovak Math. J.* 18(93) (1968), 66-82. (P. Hamburg) 37 #3515

On the product of paracompact spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 533-536. (H. L. Shapiro) 41 #4487

(with Ryll-Nardzewski, C.) On the scattered compactification. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 233-234. (R. S. Pierce) 41 #7635

Teljakovskiĭ, S. A.

On a problem of P. Erdős. (Russian) *Ann. Polon. Math.* 15 (1964), 303-304. (L. Lorch) 30 #2292

Integrability conditions for trigonometrical series and their application to the study of linear summation methods of Fourier series. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1209-1236. (M. Tomić) 30 #2293

Some bounds for trigonometric series with quasi-convex coefficients. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 426-444. (A. Peyerimhoff) 29 #410

On norms of linear polynomial operators. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 561-569. (J. Albrycht) 33 #3033

Two theorems on approximation of functions by algebraic polynomials. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 252-265. (J. T. Scheick) 33 #1622

On the question of convergence of Fourier series in the L-metric. (Russian) *Mat. Zametki* 1 (1967), 91-98. (I. M. Sheffer 34 #8067

An asymptotic estimate of the integral of the absolute value of a function given by a sine series. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1416-1422. (G. Goes) 36 #3045

(with Stečkin, S. B.) The approximation of differentiable functions by trigonometric polynomials in the L metric. (Russian) *Trudy Mat. Inst. Steklov.* 88 (1967), 20-29. (Ivan Singer) 36 #5594

Approximation of differentiable functions by partial sums of their Fourier series. (Russian) *Mat. Zametki* 4 (1968), 291-300. (I. M. Sheffer) 38 #4886

A certain problem of R. Boas. (Russian) *Mat. Zametki* 5 (1969) 437-440. (J. Gil de Lamadrid) 40 #7698

The approximation by Fejér sums of functions which satisfy a Lipschitz condition. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 334-343. (D. P. Gupta) 39 #6001

Integrability of the majorant of the partial sums of a trigonc metrical series with quasiconvex coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 514-515. (I. M. Sheffer) 41 #7361

Quasiconvex multipliers of uniform convergence of Fourier series with given modulus of continuity. (Russian) *Mat. Zametki* 8 (1970), 619-623. (R. Kaufman) 43 #5239

An estimate of the integral modulus of continuity of functions with quasiconvex Fourier coefficients. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1140-1145, 1198. (I. M. Sheffer) 42 #6499

The multipliers of uniform convergence of Fourier series of functions with a given continuity module. (Russian) *Mat. Zametki* 10 (1971), 33-40. (L. Gogoladze) 44 #7208

(with Oskolkov, K. I.; Stečkin, S. B.) Petr Vasil'evič Galkin (Russian) *Mat. Zametki* 10 (1971), 597-600. (Editors) 44 #6436

Tellaroli, Paolo

Le distribuzioni di Bose-Einstein e di Fermi-Dirac ricavate con il principio di massima incertezza. *Atti Sem. Mat. Fis. Univ. Modena* 17 (1968), 109-117. (J. Wolfowitz) 38 #1946

Teller, J. Roger

On the extensions of lattice-ordered groups. *Pacific J. Math.* 14 (1964), 709-718. (L. Fuchs) 29 #1269

On partially ordered groups satisfying the Riesz interpolation property. *Proc. Amer. Math. Soc.* 16 (1965), 1392-1400. (W. C. Holland) 32 #5749

On abelian pseudo lattice ordered groups. *Pacific J. Math.* 27 (1968), 411-419. (P. F. Conrad) 38 #3203

A theorem on Riesz groups. *Trans. Amer. Math. Soc.* 130 (1968) 254-264. (W. C. Holland) 37 #120

Tel'ner, K.

The boundedness of pseudodifferential operators in the spaces H^{μ}. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 13, 163-165. (J. Friberg) 41 #6019

Transforms of multipliers for pseudodifferential operators in L_p. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 1232-1234. (I. V. Šragin) 41 #4316

Transforms of multipliers for pseudodifferential operators in L_p. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 403-419. (J. Friberg) 44 #7384

Telser, Lester G.

Iterative estimation of a set of linear regression equations. *J. Amer. Statist. Assoc.* 59 (1964), 845-862. (A. L. Nagar) 29 #4148

(with Graves, Robert L.) An infinite-horizon discrete-time quadratic program as applied to a monopoly problem. *Econometrica* 35 (1967), 234-272. (A. C. Williams) 37 #3842

Discrete samples and moving sums in stationary stochastic processes. *J. Amer. Statist. Assoc.* 62 (1967), 484-499. (S. Csibi) 35 #7543

Telyakovskiĭ, S. A. See Teljakovskiĭ, S. A.

Teman, Roger

Sur l'approximation des solutions des équations de Navier-Stokes. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A219-A221. (G. Prodi) 35 #1941

Sur l'approximation semi-discrète de la solution d'équations d'évolution linéaires par la méthode des pas fractionnaires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A241-A244. (J. Burlak) 37 #5727a

Sur l'approximation discrète de la solution d'équations d'évolution linéaires par la méthode des pas fractionnaires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A265-A267. (J. Burlak) 37 #5727b

Sur l'approximation semi-discrète de la solution d'équations d'évolution non linéaires par la méthode des pas fractionnaires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A459-A462. (J. Burlak) 37 #5727c

(with Lions, Jacques Louis) Une méthode d'éclatement des opérateurs et des contraintes en calcul des variations. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A563-A565. (T. R. Jenkins) 34 #4963

* Some results of existence and uniqueness for nonlinear partial differential equations; Remarks on the approximation of some nonlinear elliptic equations. University of Kansas Department of Mathematics Technical Report 18 (New Series). *Univ. of Kansas, Lawrence, Kan.*, 1968. ii + 39 *pp.* (J. E. Lagnese) 40 #3028

Sur la stabilité et la convergence de la méthode des pas fractionnaires. *Ann. Mat. Pura Appl.* (4) 79 (1968), 191-379. (J. E. Lagnese) 39 #3175

Une méthode d'approximation de la solution des équations de Navier-Stokes. *Bull. Soc. Math. France* 96 (1968), 115-152. (W. Velte) 38 #6249

Sur l'approximation de la solution des équations de Navier-Stokes par la méthode des pas fractionnaires. I. *Arch. Rational Mech. Anal.* 32 (1969), 135-153. (W. Velte) 38 #6250

Sur l'approximation de la solution des équations de Navier-Stokes par la méthode des pas fractionnaires. II. *Arch. Rational Mech. Anal.* 33 (1969), 377-385. (W. Velte) 39 #5968

Sur la résolution exacte et approchée d'un problème hyperbolique non linéaire de T. Carleman. *Arch. Rational Mech. Anal.* 35 (1969), 351-362. (D. B. Kotlow) 40 #4606

Étude directe d'une équation d'évolution du type de Riccati, associée à des opérateurs non bornés. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1335-A1338. (R. Beals) 40 #581

Sur un problème non linéaire. *J. Math. Pures Appl.* (9) 48 (1969), 159-172. (G. Prodi) 41 #5799

* Analyse numérique. Résolution approchée d'équations aux dérivées partielles. Collection SUP: "Le Mathématicien", 3. *Presses Universitaires de France, Paris,* 1970. 118 *pp.* (S. V. Parter) 43 #1450

Remarques sur la dualité en calcul des variations et applications. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A754-A757. (J. Hersch) 41 #4343

Solutions généralisées de certains problèmes de calcul des variations. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1116-A1119. (J. Hersch) 42 #8363

Remarks on the approximation of some nonlinear elliptic equations. *J. Comput. System Sci.* 4 (1970), 250-259. (R. S. Varga) 42 #7092

Sur l'équation de Riccati associée à des opérateurs non bornés, en dimension infinie. *J. Functional Analysis* 7 (1971), 85-115. (R. Nussbaum) 43 #2564

Temčenko, M. E.

(with Košljakov, V. N.; Ljusin, Ju. B.; Storoženko, V. A.; Šul'man, I. Š.) Stability of solutions of the differential equations for the autonomous determination of the coordinates of a moving object. *Dokl. Akad. Nauk SSSR* 179 (1968), 34-36 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 201-202. (J. M. Skowroński) 38 #2394

(with Gorbačuk, M. L.; Slepcova, G. P.) Stability of motion of a rigid body suspended on a string and filled with fluid. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 5, 586-602. (Şt. I. Gheorghiţă) 40 #2271

Temchenko, M. E. See Temčenko, M. E.

Temelt, Wolfgang

On the space of parameters of the general problem of linear programming. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 680-686. (B. Bereanu) 36 #1201

(with Veršik, A. M.) Certain questions on approximation of the optimal value of infinite-dimensional linear programming problems. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 790-803. (V. F. Dem'janov) 38 #4144

Temes, G. C.

(with Smith, B. R.) An iterative approximation procedure for automatic filter synthesis. *IEEE Internat. Convention Record* 1964, *pt.* 1, 270-281. (Authors' summary) 37 #7218

(with Smith, B. R.) An iterative approximation procedure for automatic filter synthesis. *IEEE Trans. Circuit Theory* CT-12 (1965), 107-112. (E. K. Blum) 32 #7320

(with Bingham, J. A. C.) Iterative Chebyshev approximation technique for equalizer synthesis. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 773-785. *Univ. Illinois, Urbana, Ill.*, 1965. (Authors' summary) 39 #6679

Temirbulatov, S. I.

Uniqueness of the solution of the inverse problem of the inductive core. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 471-474. (J. E. Rosenthal) 35 #1276

Temirgaliev, N. T.

Certain imbedding theorems of the classes $H_{p,m}^{\omega(\sigma)}$ of functions of several variables. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 5, 90-92. (M. Cîrnu) 44 #7281

Temirov, T.

(with Šapiro, Ja.) On Riemannian spaces with reducible isotropy group. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 539-541. (L. W. Green) 30 #4228

(with Šapiro, Ja.) On the question of motions in Riemannian spaces with reducible isotropy group. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1407-1414. (T. Huskowski) 33 #4860

Temkin, Aaron

(with Bhatia, A. K.) Decomposition of the Schrödinger equation for two identical particles and a third particle of finite mass. *Phys. Rev.* (2) 137 (1965), A1335-A1343. (A. C. Hurley) 32 #5237

Temkin, L. A.

(with Temkina, V. S.) On the question of the effective computation of Fourier coefficients by means of iterations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1179-1183. (V. M. Kokilašvili) 42 #2638

Temkina, V. S.

(with Temkin, L. A.) On the question of the effective computation of Fourier coefficients by means of iterations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1179-1183. (V. M. Kokilašvili) 42 #2638

Temko, K. V.

(with Temko, S. V.) On the potential of equilibrium. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 551-554. (N. Boboc) 33 #299

(with Temko, S. V.) The application of integral transforms to the solution of a certain class of inverse problems of potential theory. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1484-1494. (N. Boboc) 40 #7468

Temko, S. V.

(with Temko, K. V.) On the potential of equilibrium. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 551-554. (N. Boboc) 33 #299

(with Temko, K. V.) The application of integral transforms to the solution of a certain class of inverse problems of potential theory. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1484-1494. (N. Boboc) 40 #7468

The Ljapunov stable equilibrium distribution of charged particles in a cloud of ionized gas. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1969, *no.* 1, 20-26. (M. Drăganu) 44 #5058

Temliakoff, A. A. See Temljakov, A. A.

Temliakov, A. A. See Temljakov, A. A.

Temliakow, A. A. See Temljakov, A. A.

Temljakov, A. A.

(See Aĭzenberg, L. A.; Bavrin, I. I.; Lukankin, G. L., 32 #1100)

On the theory of integral representations. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 137, 209-216 (1964). (F. Huckemann) 31 #2382

(with Dudina, V. F.) Integral representations of holomorphic functions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166, 87-100 (1966). (D. Mitrović) 35 #5588

On the theory of integral representations of holomorphic functions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166, 105-107 (1966). (D. Mitrović) 35 #5590

On the theory of integral representations. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 188, 109-111 (1967). (S. Kaneyuki) 39 #7073

Temlyakov, A. A. See Temljakov, A. A.

Tempel′, F. G.

A method of solving certain quasilinear equations of applied mathematics. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 1, 175-178. 33 #5117

Tempel′man, A. A. See Tempelmanas, A.

Tempelmanas, A.

Ergodic theorems for homogeneous generalized stochastic fields and homogeneous stochastic fields on groups. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 2 (1962), *no.* 1, 195-213. (A. Veršik (RŽMat 1964 #5 B498)) 32 #4749

Ergodic properties of homogeneous random fields on groups. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp.* 253-255. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (L. Schmetterer) 33 #775

Ergodic theorems for general dynamical systems. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 790-793. (D. Newton) 36 #2779

(with Mirskaja, T. I.; Pabedinskaitė, A. S.) Hilbert spaces of certain reproducing kernels and the equivalence of Gaussian measures. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 459-469 (1968). (H. G. Tucker) 37 #5926

(with Golosov, Ju. I.) The equivalence of measures which correspond to Gaussian vector-valued functions. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 1271-1274. (J. Hájek) 39 #7646

Linear regression estimates. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 772-775. (G. Manija) 41 #6369

Criteria of the metric transitivity of Gaussian homogeneous random functions. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 815-834. (E. M. Klimko) 44 #7627

Temperley, H. N. V.

On Mayer's hypothesis about the critical region of a classical gas. *Proc. Phys. Soc.* 83 (1964), 1013-1019. (G. Newell) 29 #6878

The transition of the rigid-sphere gas. *Proc. Phys. Soc.* 84 (1964), 339-344. (K. Kumar) 31 #3159

An exactly soluble lattice model of the fluid-solid transition. *Proc. Phys. Soc.* 86 (1965), 185-192. (O. Penrose) 31 #4542

(with Nagle, J. F.) Combinatorial theorem for graphs on a lattice. *J. Mathematical Phys.* 9 (1968), 1020-1026. (M. A. Harrison) 37 #6213

Temple, G.

The Heine-Borel theorem. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 367-368. (G. E. Strecker) 36 #4525

Temple, W. B.

(with Gordon, M.; Parker, T. G.) On the number of distinct orderings of a vertex-labeled graph when rooted on different vertices. *J. Combinatorial Theory Ser. B* 11 (1971), 142-156. (R. C. Mullin) 43 #6130

Temple Bell, Eric. See Bell, Eric Temple.

Ten, V. S.

Geometric criteria of indecomposability of positive operators. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 1093-1095. (G. J. O. Jameson) 40 #767

The introduction of the class of p-indecomposable positive operators into a Banach space. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 275-278. (G. Neubauer) 41 #2422

Certain questions of the theory of positive linear operators. (Russian) *Mathematical Physics, No. 7 (Russian), pp.* 166-178. *Naukova Dumka, Kiev,* 1970. (B. Jankó) 43 #958

Tenčurin, R. H.

Existence of a limiting solution of a functional equation in a normed linear space. (Russian) *Equations of Math. Phys. and Funct. Anal. (Russian), pp.* 125-131. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1966. (A. Haimovici) 34 #8252

Ten Doesschate, G. See ten Doesschate, G.

Tenengol′c, G. M.

(with Varšamov, R. R.) A code which corrects single asymmetric errors. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 288-292. (S. Kullback) 30 #2957

(with Dyn′kin, V. N.; Habelašvili, G. I.) A certain class of cyclic arithmetic codes. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 55 (1969), 533-536. (I. Vajda) 41 #5100

(with Varšamov, R. R.) A certain class of cyclic codes. (Russian) *Problemy Kibernet. No.* 22 (1970), 157-166, 297-298. (J. Černý) 44 #8045

(with Dzodzuašvili, A. G.) The decoding of a certain class of cyclic codes. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 58 (1970), 545-547. (C. Tartia) 43 #8443

Tenengol′ts, G. M. See Tenengol′c, G. M.

Tenenhaus, Michel

Codes correcteurs d'erreurs de synchronisation. *Rev. CETHEDEC Cahier 4ème Trim.* (1969), i + 100 pp. *(3 pp. loose errata)* (G. M. Tenengol′c) 42 #1574

Teng, Tsing-houa

(with Chen, Bang-yen) On the compact orientable Riemannian manifold immersed in Euclidean space. (Chinese summary) *Formosan Sci.* 20 (1966), 69-76. (J. Rosen) 38 #3803

(with Chen, Bang-yen) On the α-th curvatures of surfaces in Euclidean spaces. (Chinese summary) *Tamkang J. No.* 6 (1967), 301-309. (C. B. Allendoerfer) 39 #3430

(with Chen, Bang-yen) A theory of affine differential geometr of hypersurfaces. (Chinese summary) *Tamkang J. No.* 7 (1968), 317-330. (E. Heil) 39 #4763

Teng Shih-t'ao

(with Li Ch'iao) On the affine geometry of algebraic homogeneous spaces. *Acta Math. Sinica* 15 (1965), 651-663 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 378-391. (P. Drăgilă) 33 #7944

On the relationship between the intersection multiplicity of A. Weil and of van der Waerden. (Chinese) *Shuxue Jinzhan* 9 (1966), 79-84. 38 #3270

Tengstrand, A.

Vectorvalued distributions covariant under algebraic representations of an orthogonal group of arbitrary signature. *Math. Scand.* 25 (1969), 31-38. (J.-P. Antoine) 41 #2383

Teng Yao-hua

(with Lo Ting-chun) A qualitative study of the integral curves of the differential equation $dy/dx = (q_{00} + q_{10}x + q_{01}y + q_{20}x^2 + q_{11}xy + q_{02}y^2)/(p_{00} + p_{10}x + p_{01}y + p_{20}x^2 + p_{11}xy + p_{02}y^2)$. III. The number of limit cycles of equations of type I. *Acta Math. Sinica* 14 (1964), 119-127 *(Chinese); translated as Chinese Math.* 5 (1964), 129-138. (W. A. Coppel) 29 #1385

Ten Hoopen, M.

(with Reuver, H. A.) Remark on the input-output relation of formalized neurons in case of randomized stimuli. *Bull. Math. Biophys.* 27 (1965), 145-152. (J. D. Cowan) 33 #3797

(with Reuver, H. A.) Selective interaction of two independent recurrent processes. *J. Appl. Probability* 2 (1965), 286-292. (Authors' summary) 31 #6294

(with Reuver, H. A.) The superposition of random sequences of events. *Biometrika* 53 (1966), 383-389. (Authors' summary) 35 #2382

(with Reuver, H. A.) On a first passage problem in stochastic storage systems with total release. *J. Appl. Probability* 4 (1967), 409-412. (A. K. Gayen) 36 #3426

Ten Kate, A. See ten Kate, A.

Tennenbaum, S.

Degree of unsolvability and the rate of growth of functions. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp.* 71-73. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.,* 1963. (A. P. Ershov) 29 #4679

Souslin's problem. *Proc. Nat. Acad. Sci. U.S.A.* 59 (1968), 60-63. (James D. Halpern) 37 #55

Tennison, R. L.

An almost-measure of symmetry. *Amer. Math. Monthly* 74 (1967), 820-823. (W. E. Bonnice) 37 #826

Teodorčik, K. F.

Bounds for stability of linear systems arising from the regularities of the motion of roots along trajectories and their connection with the Hurwitz stability criteria. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1965, *no.* 4, 73-77. (C. Karanikolov) 33 #8096

Teodorescu, G. See Bogdan-Teodorescu, Gabriela.

Teodorescu, Gabriela. Bogdan. See Bogdan-Teodorescu, Gabriela.

Teodorescu, Ion D.

(with Rusu, Ion) On two-dimensional spaces with locally Euclidean affine connection and integral Cremona transformations. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 199-208. (H. W. Guggenheimer) 30 #3431

The method of pseudo-orthogonal congruences in the theory of relativity. I. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 65-92. (P. G. Bergmann) 30 #5786

On the locally euclidean spaces $A_2(x,y)$ with polynomial affine connections. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 405-411. (P. Vincensini) 34 #8328

Entire Cremona transformations and locally euclidean spaces with polynomial affine connections. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 939-946. (P. Vincensini) 35 #923

(with Nediţă, Nicolae I.) Correspondance between affine spaces with polynomial connections and integral Cremona transformations. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 13 (1964), *no.* 1, 101-109. (L. Tamássy) 32 #4629

Sur l'espèce des espaces localement euclidiens A_2 à connexion polynomiale. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 143-150. (G. Vranceanu) 34 #8329

Sur l'équivalence en grand des espaces localement euclidiens A_2 à connexion polynômiale. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 217-227. (Y. Muto) 34 #5026

On correspondences between projective spaces with a linear connection. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 14 (1965), *no.* 2, 13-16. (M. Decuyper) 35 #3589

Sur la possibilité de rapporter à un système de coordonnées autoparallèles les espaces A_2 à connexion linéaire. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 10(58) (1966), 335-343 (1967). (R. N. Sen) 36 #7065

(with Nediţă, Nicolae I.) A_2 spaces of the third kind with rectilinear characteristics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 16 (1967), *no.* 2, 91-100. (G. Vranceanu) 39 #6204

Sur les formes canoniques des connexions des espaces localement euclidiens A_2 à connexion linéaire. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 11(59) (1967), *no.* 4, 103-117 (1968). (T. J. Willmore) 38 #3799

(with Codău, Nicolae) Spaces A_2 with linear connection of the third species. (Romanian. French summary) *Lucrări Şti. Inst. Ped. Galaţi* 2 (1968), 11-21. (P. Drăgilă) 39 #7525

On spaces A_2 with affine connection. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 751-761. (C. Teleman) 42 #999

(with Nicolescu, Liviu) Sur les espaces A_2 de la deuxième espèce à caractéristiques droites. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 2, 245-253 (1970). (G. Tallini) 42 #5183

Recurrent spaces A_2 of the third kind. (Romanian. French summary) *Lucrări Şti. Inst. Ped. Galaţi* 3 (1969), 9-12. (V. Dumitraş) 43 #3959

(with Ianuş, Stere) Spaces A_2 of the first kind with rectilinear characteristics. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 665-674. (G. Vranceanu) 42 #8412

Teodorescu, N. N.

Méthodes fonctionnelles en théorie des fonctions d'une variable complexe. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 5(53) (1961), 225-264 (1964). (L. de Branges) 32 #220

Dérivée aréolaire globale et dérivée généralisée. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 239-255 (1964). (K. Strebel) 34 #1534

Generalized derivative $\partial/\partial\bar{z}$ of a function $f(z)$ of class $C^1(\Delta)$. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 339-342. (Author's summary) 31 #634

Extension du laplacien et représentation intégrale des solutions généralisées de l'équation de Poisson. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 229-241. (I. Fenyö) 34 #4532

(with Rizescu, Gh. N.) On generalizations of the Frenet formulas. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1297-1303. (P. Vincensini) 34 #8340

Représentations intégrales en théorie des fonctions de plusieurs variables. *Comptes Rendus de la III^e Réunion du Groupement des Mathématiciens d'Expression Latine (Namur, 1965), pp.* 93-129. *Librairie Universitaire, Louvain,* 1966. (D. Pascali) 39 #3137

(with Rizescu, Gh. N.) Extension of a theorem in the theory of surfaces. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 157-160. (P. Vincensini) 36 #7073

(with Rizescu, Gh. N.) A demonstration of a theorem concerning the curvature tensor. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 631-633. (G. Vranceanu) 35 #2242

(with Rizescu, Gh. N.) On a theorem concerning the curvature tensor. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1351-1356. (C. Teleman) 39 #7531

(with Rizescu, Gh. N.) On pairs of Riemannian spaces with proportional curvature tensors. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 609-617. (C. Teleman (Zbl 162, 254)) 40 #3466

On pairs of Riemannian spaces. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1367-1376. (Gh. Th. Gheorghiu (Zbl 171, 204)) 40 #6446

Durch lineare Operatoren definierte Projektoren. Räumliche Ableitungen und Integraloperatoren vom Potentialtyp aus der mathematischen Physik. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 209-226 (1969). (H. O. Cordes) 41 #7459

On the group of motions of conformally Euclidean spaces. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 483-498. (Author's summary) 42 #5190

Elements of general topology. *Gaz. Mat. Ser. A* 74(75) (1969), 189-195. (Editors) 40 #1958

On the construction of the ring of polynomials. (Romanian) *Gaz. Mat. Ser. A* 74(75) (1969), 110-115. (E. Enochs) 40 #142

Teodorescu, Petre P.

On the calculation of fitted wall beams. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 281-322. (N. Cristescu) 30 #5559

A mixed problem in elasticity theory for certain infinite two-dimensional regions. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat. -Fiz.* 10 (1961), *no.* 29, 323-332. (Author's summary) 30 #2730

Sur le problème plan de la théorie de l'élasticité en coordonnées de translation quelconques. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 5(53) (1961), 265-287 (1964). (R. M. Morris) 32 #647

On the use of stress functions in two-dimensional problems in the theory of elasticity in oblique coordinates. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 217-227. (M. Mişicu) 30 #5550

Some questions on the resolution of the Dirichlet and Neumann problems for a two-dimensional domain. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 12 (1962), 201-206. (Author's summary) 31 #1453

On the plane problem of the theory of elasticity in arbitrary curvilinear co-ordinates. III. Mathematical formulation of the problem. Methods of calculation. (Romanian. French summary) *Acad. R. P. Romîne Stud. Cerc. Mec. Apl.* 14 (1963), 37-54. (L. M. Milne-Thomson) 29 #6691

On some plane problems of elastodynamics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 21-42. (J. R. M. Radok) 31 #958

Certain considerations concerning the plane problem of the theory of elasticity in arbitrary translation coordinates. (Romanian. Russian and French summaries) *An. Univ. Timisoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 303-317. (Author's summary) 30 #2731

Sur l'utilisation des potentiels réels dans le problème plan de la théorie de l'élasticité. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 7(55) (1963), 77-111. (W. T. Koiter) 33 #2035

Mathematical introduction to the theory of elasticity. (Romanian. Russian and French summaries) *Gaz. Mat. Fiz. Ser. A* 15(68) (1963), 337-350; *ibid.* 15(68) (1963), 393-407. (Author's summary) 31 #6420

On the plane problem of the theory of elasticity in arbitrary curvilinear co-ordinates. II. State of stress and strain. (French, Russian and German summaries) *Rev. Méc. Appl.* 8 (1963), 589-609. (L. M. Milne-Thomson) 32 #8574

On the plane problem of the theory of elasticity in arbitrary curvilinear co-ordinates. III. Mathematical formulation of the problem. Methods of calculation. *Rev. Méc. Appl.* 8 (1963), 953-969. (L. M. Milne-Thomson) 29 #6690

On harmonic and biharmonic polynomials. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 8 (1963), *no.* 1, 93-104. (From the author's summary) 37 #5413

On the problem of an octant of elastic space under the influence of a tangential charge. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 13 (1964), *no.* 1, 41-69. (Author's summary) 32 #3347

Considérations concernant la formulation mathématique du problème plan de la théorie de l'élasticité. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 317-335. (G. R. Verma) 31 #1806

Considerations related to the mathematical formulation of plane problems in the theory of elasticity. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 355-367. (Editors) 31 #6423

A hundred years of research on the plane problems of the theory of elasticity. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 375-403. (N. Zitron) 31 #6424

Schwingungen der elastischen Kontinua. (French and English summaries) Dritte Konferenz über Nichtlineare Schwingungen (Berlin, 1964), Teil II. *Abh. Deutsch. Akad. Wiss Berlin Kl. Math. Phys. Tech.* 1965, *no.* 2, 29-67 (1966). (L. Knopoff) 35 #6405

Sur l'effet de coin en élasticité tridemensionnelle. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 249-276. (R. Hill) 32 #1954

Sur le problème du demi-quart d'espace élastique soumis à l'action d'une charge tangentielle. (Russian, German and English summaries) *Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* 10 (1965), 81-108. (Author's summary) 34 #8704

Über das dreidimensionale Problem der Elastokinetik. (English and Russian summaries) *Z. Angew. Math. Mech.* 45 (1965), 513-523. (Author's summary) 33 #2038

* Probleme plane în teoria elasticităţii. Vol. II. (Romanian) [Plane problems in elasticity theory. Vol. II] *Editura Academiei Republicii Socialiste România, Bucharest,* 1966. 669 *pp.* (O. Gürel) 34 #7091

* (with Kecs, W.) Aplicaţii ale teoriei distribuţiilor în mecanică. (Romanian. English table of contents) [Applications of the theory of distributions in mechanics] *Editrua Academiei Republicii Socialiste România, Bucharest,* 1970. 438 *pp.* (Editors) 42 #4063

* Probleme spaţiale în teoria elasticităţii. (Romanian) [Spatial problems in the theory of elasticity] *Editura Academiei Republicii Socialiste România, Bucharest,* 1970. 377 *pp.* (M. Mişicu) 42 #5495

Stress functions in elastodynamics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 1, 145-158. (W. Kecs) 44 #2400

Tendencies in the development of the theory of elasticity. (Romanian. French summary) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 2, 129-152. (Author's summary) 44 #7823

Teodorescu, Ştefan D.

The problem of angle preserving projections. (Romanian. Russian and German summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 111-124. (Author's summary) 30 #3390

Teodorescu, V. Antohi. See Antohi-Teodorescu, Veronica.

Teodoresku, P. P. See Teodorescu, P. P.

Teodoresku, R. See Theodorescu, Radu.

Teodoru, Doina

(with Şiclovan, Ioan) On the congruence properties of orthogonal polynomials. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 1, 127-135. (A. E. Danese) 43 #7686

Teodosiu, Cristian

Solution of a plane problem in the theory of elasticity in the case of arbitrary body forces. (Russian. French, German and English summaries) *Rev. Méc. Appl.* 8 (1963), 639-653. (M. Sokołowski) 33 #3514

Teplic, V. See Teplitz, Vigdor L.

Teplickiĭ, È. Š.

(with Mestvirišvili, M. A.) Quasi-stationary levels in a cylindrical magnetic field. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 35 (1964), 293-298. (I. Białynicki-Birula) 29 #5562

Teplitz, Vigdor L.

(with Chew, Geoffrey F.) Dynamical evidence that Regge poles control small-momentum-transfer scattering at high energy. *Phys. Rev.* (2) 136 (1964), B1154-B1157. (P. G. Williams) 32 #5058

Solution of the *N/D* equations in the strip approximation. *Phys. Rev.* (2) 137 (1965), B136-B139. (V. de Alfaro) 32 #6940

(with Chew, Geoffrey F.) More accurate treatment of the low-energy potential in the strip approximation. *Phys. Rev.* (2) 137 (1965), B139-B141. (V. de Alfaro) 32 #6915

* (with Hwa, Rudolph C.) Homology and Feynman integrals. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. xi + 331 *pp.* (H. Tong) 36 #3551

* (with Hwa, Rudolph C.) Гомология и фейнмановские интегралы. (Russian) [Homology and Feynman integrals] Translated from the English by V. V. Tolmačev. *Izdat. "Mir", Moscow,* 1969. 223 *pp.* (Editors) 40 #2311

Teplov, I. V.

* (with Luk'janov, A. V.; Akimova, M. K.) Tables of Coulomb wave functions (Whittaker functions). Translated by D. E. Brown. *A Pergamon Press Book. The Macmillan Co., New York,* 1965. xv + 221 *pp.* (Editors) 32 #2620

Teply, Mark L.

Uniformly negligible modules. *J. London Math. Soc.* 44 (1969), 424-428. (A. Zaks) 38 #4515

Torsionfree injective modules. *Pacific J. Math.* 28 (1969), 441-453. (W. H. Caldwell) 39 #4205

Some aspects of Goldie's torsion theory. *Pacific J. Math.* 29 (1969), 447-459. (S. E. Dickson) 39 #5638

(with Fuelberth, John D.) The torsion submodule splits off. *Math. Ann.* 188 (1970), 270-284. (B. L. Osofsky) 43 #2011

Direct decomposition of modules. *Math. Japon.* 15 (1970), 85-90. (R. B. Warfield, Jr.) 44 #5336

Homological dimension and splitting torsion theories. *Pacific J. Math.* 34 (1970), 193-205. (B. L. Osofsky) 43 #291

Torsionfree projective modules. *Proc. Amer. Math. Soc.* 27 (1971), 29-34. (B. L. Osofsky) 42 #6029

A note on modules over a commutative regular ring. *Proc. Amer. Math. Soc.* 29 (1971), 267-268. (S. E. Dickson) 43 #1962

Teposu, Iosif

On some generalizations of the Lagrange equations. (Romanian. German summary) *Stud. Cerc. Mat.* 21 (1969), 805-817. (Author's summary) 42 #5483

Teppati, Giancarlo

(with Ascoli, Renato) A lattice theoretical analogue of the Schur lemma. (Italian summary) *Boll. Un. Mat. Ital.* (3) 22 (1967), 200-204. (P. Crawley) 36 #1367

(with Barucchi, G.) The causality group. (Italian and Russian summaries) *Nuovo Cimento A* (10) 52 (1967), 50-61. (Authors' summary) 36 #2376

(with Ascoli, Renato; Bruno, Giuseppina) On the group of the automorphisms of some algebraic systems. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 77-84. (K.-H. Diener) 42 #168

(with Ascoli, Renato) Irreducibility and simplicity in general algebrae and congruences in relatively complemented lattices. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 149-157. (J. E. McLaughlin) 43 #3196

(with Ascoli, R.; Termini, S.) Particle-antiparticle doublet and the full Poincaré group. *Nuclear Phys.* B14 (1969), 400-412. (P. W. Higgs) 44 #1327

(with Ascoli, R.) On the commutant of irreducible sets of semi-linear operators. (Italian and Russian summaries) *Nuovo Cimento B* (10) 65 (1970), 229-238. (J. M. Jauch) 41 #4298

Tepper, David E.

On the radius of convexity and boundary distortion of Schlicht functions. *Trans. Amer. Math. Soc.* 150 (1970), 519-528. (D. K. Thomas) 42 #3268

Tepper Haimo, Deborah. See Haimo, Deborah Tepper.

Teptin, A. L.

Oscillations of solutions of a linear second-order difference equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 2 (33), 120-123. (J. C. Lillo) 31 #5000

(with Juberev, N. N.) Theorems on the behaviour of the Green's function of a finite-difference analogue of a Sturm-Liouville boundary-value problem and their application to the study of differential equations. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1163-1180. (Walter Gautschi) 30 #298

On certain properties of solutions of linear difference equations approximating differential equations in the interval of non-oscillation. (Russian) *Differencial'nye Uravnenija* 1 (1965), 478-498. (A. Haimovici) 35 #1990

On non-oscillatory solutions of linear difference equations and multi-point difference boundary value problems. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 140-146. (I. M. Sheffer) 32 #4414

Estimation of the non-oscillation interval for a difference equation and for difference boundary value problems. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1449-1468. (I. M. Sheffer) 34 #6363

On the question of estimation of the non-oscillation interval for an equation in finite differences. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 1370-1382. (I. M. Sheffer) 34 #4735

Conditions of validity of Čaplygin's theorem for elliptic difference equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1009-1021. (M. Kuczma) 37 #1823

An effective criterion for the existence and constancy of sign of the Green's function for certain difference boundary value problems. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 1 (56), 102-106. (Walter Gautschi) 34 #5301

(with Juberev, N. N.) A question on conservation of the sign of the Green's function for multi-point boundary value problems. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 865-875. (K. W. Chang) 36 #1738

On the question of the applicability of the maximum principle to an elliptic difference equation. (Russian) *Differencial'nye Uravnenija* 4 (1968), 508-517. (J. S. Shipman) 37 #2467

The sign of Green's function for an even multipoint difference boundary value problem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 1 (68), 108-118. (Walter Gautschi) 36 #5549

A difference analogue of Mikusiński's theorem and its application. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 125-135. (Walter Gautschi) 37 #7108

Transfer of a theorem on difference inequalities to boundary value problems with a condition at infinity. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 4 (83), 83-91. (Walter Gautschi) 39 #7306

The applicability of the sweep method to the difference analogue of de la Vallée Poussin's boundary value problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 457-462. (T. Styś) 41 #6416

(with Gul'nikova, G. V.) The bilateral difference schemes for the de la Vallée-Poussin boundary value problem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 7 (98), 102-109. (V. Thomée) 43 #7080

Terada, Mikiharu

On an inversion formula for an integral transform of convolution type. *Mem. Osaka Univ. Lib. Arts Ed. Ser. B No.* 13 (1964), 27-31. (R. R. Goldberg) 31 #3797

Terada, Toshiaki

Sur une certaine condition sous laquelle une fonction de plusieurs variables complexes est holomorphe. Diminution de la condition dans le théorème de Hartogs. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966/67), 383-396. (P. Lelong) 39 #1683

Terasaka, Hidetaka

(with Katayama, Shigeru) On congruent axioms in linearly ordered spaces. I. *Osaka J. Math.* 3 (1966), 269-292. (M. C. Chaki) 35 #867

(with Katayama, Shigeru) On congruent axioms in linearly ordered spaces. II. *Osaka J. Math.* 4 (1967), 111-132. (M. C. Chaki) 36 #3214

Terashima, Yoshinosuke

(with Yajima, Nobuo) Radiation by plasma waves in a homogeneous plasma. *Progr. Theoret. Phys.* 30 (1963), 443-459. (H. Weitzner) 30 #5763

Terauchi, Yoshio

(with Aida, Toshio) Zahnfussfestigkeit geradverzahnter Stirnräder. *Mem. Fac. Engrg. Hiroshima Univ.* 2, *no.* 2, 15-55 (1964). (R. M. Morris) 29 #5441

Terazawa, Osamu

(with Fujii, Kanji; Itô, Yukio; Iwata, Kenzô) Current-current interaction and nonleptonic decays of hyperons. Relation between intermediate meson and B-matter. *Progr. Theoret. Phys.* 33 (1965), 692-704. (S. Oneda) 31 #3060

Terebeĭko, B. Ī.

On a sufficient condition for a decomposition of a quadratic matrix-trinomial into linear factors. (Ukrainian) *Vestnik L'vov. Politehn. Inst. No.* 8 (1965), 67-69. 33 #2650

Terehin, A. P.

The approximation of functions of bounded p-variation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 171-187. (E. J. Akutowicz) 32 #2814

Integral smoothness properties of periodic functions of bounded p-variation. (Russian) *Mat. Zametki* 2 (1967), 289-300. (J. Král) 36 #6560

The Lebesgue constant for the space of functions continuous in it and of bounded p-variation. (Russian) *Mat. Zametki* 2 (1967), 505-512. (L. Berg) 36 #1890

Terehin, A. T.

(with Raĭbman, N. S.) Dispersion methods for random functions and their application to the study of nonlinear control plants. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 500-509. (R. Tomovic) 30 #5861

Terehin, M. T.

Conditions for the star shape and convexity of the limit cycles of first order differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 194-197. (A. Filippov (RŽMat 1964 #9 B196)) 40 #1639

Certain sufficient criteria for the existence of limit cycles of differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 198-203. (A. Filippov (RŽMat 1964 #9 B197)) 40 #1640

Limit cycles and contact theory. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 204-208. (A. Filippov (RŽMat 1964 #12 B209)) 40 #1641

The number of limit cycles of certain classes of first order differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 209-215. (A. Filippov (RŽMat 1964 #9 B198)) 40 #1642

The existence of limit cycles of certain classes of differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 216-220. (A. Filippov (RŽMat 1964 #9 B209)) 40 #1643

Periodic solutions of a certain nonautonomous system of differential equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 778-782. (Š. Schwabik) 37 #514

Rotation of a direction field and the problem of finding limit cycles. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 48-53. (A. D. Ziebur) 37 #1711

Periodic solutions and contact curves. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 53-60. (A. D. Ziebur) 37 #1712

Periodic solutions of the differential equation $\rho' = f(\rho,\phi)$. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 60-65. (A. D. Ziebur) 37 #1713

Determination of the critical value of a parameter for the equation of motion of a pendulum. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 65-70. (S. J. Zaroodny) 37 #3804

Conditions of monocyclicity for a limit cycle. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 101-106. (J. M. Skowroński) 41 #2112

The periodic solutions of a certain differential equation with piece-wise continuous right hand side. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 107-115. (N. Rozov (RŽMat 1969 #11 B206)) 40 #7551

The R-properties of a nonautonomous system of second order differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 117-123. (L. Pius (RŽMat 1969 #11 B222)) 40 #7552

The periodic solutions of a certain first order differential equation. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 124-129. (L. Pius (RŽMat 1969 #11 B224)) 40 #7553

The asymptotes of first order differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 130-134. (N. Rozov (RŽMat 1969 #5 B231)) 40 #7554

Integral transforms and periodic solutions. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 135-140. (L. Pius (RŽMat 1969 #11 B223)) 40 #7555

Terehova, T. V.

The smoothness of a function of three variables of bounded variation. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 47-50. (Á. Császár) 41 #7042

Terehova, V. A.

* Избранные главы высшей математики: Ряды и интеграл Фурье. Преобразование Лапласа. Дискретное преобразование Лапласа. (Russian) [Selected topics in higher mathematics: Fourier series and integrals. Laplace transform. Discrete Laplace transform] Edited by N. K. Usmanov. *Riž. Inst. Inž. Graždan. Aviacii, Riga,* 1965. 196 *pp.* (Editors) 34 #8680

Terent'ev, A. G.

Cavitational flow around a two-dimensional plate. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 159-167. (J. N. Newman) 30 #2776

Certain properties of linear differential operators. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1635-1641. (J. Bognár) 43 #604

On the solution of a mixed boundary value problem. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 57-60. (R. A. Kordzadze) 44 #6979

Terent'ev, E. D.

(with Ryžov, O. S.) On the theory of the high entropy layer in hypersonic flows. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 462-480. (Simona Popp) 44 #6204

Terent'ev, I. A.

(with Novožilov, Ju. V.) On SU_6-symmetry of elementary particles. *Phys. Lett.* 15 (1965), 86-87. (R. Delbourgo) 32 #897

(with Novožilov, Ju. V.) Symmetry of elementary particles in the theory of inhomogeneous groups. *Dokl. Akad. Nauk SSSR* 165 (1965), 530-533 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 1082-1084. (R. Delbourgo) 33 #2276

(with Novožilov, Ju. V.) Theory of the SU_6 symmetry of elementary particles. *Dokl. Akad. Nauk SSSR* 165 (1965), 800-802 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 1160-1161. (A. O. Barut) 34 #3938

* (with Novožilov, Ju. V.) Унитарные представления обобщенных групп Пуанкаре. (Russian. English summary) [Unitary representations of the generalized Poincaré groups] *Izdat. Leningrad. Univ., Leningrad,* 1966. 30 *pp.* (M. Havlíček) 37 #2897

(with Novožilov, Ju. V.) Unitary representations of $P(SU(r))$, combining the Poincaré group with the internal symmetry group. *Jadernaja Fiz.* 3 (1966), 1138-1148 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 827-833. (J. Rosen) 34 #3939

(with Novožilov, Ju. V.) On the theory of symmetry of elementary particles. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 16, 5-17. (From the authors' summary) 34 #8771

(with Novožilov, Ju. V.) Unitary representations of the generalized Poincaré groups. *J. Mathematical Phys.* 9 (1968), 1517-1526. (R. Keown) 39 #3771

Terent'ev, M. V.

(with Ioffe, B. L.) The domain of applicability of perturbation theory in the electrodynamics of vector mesons. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 744-749 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 496-499. (S. Bludman) 31 #6560

(with Vanjašin, V. S.) The vacuum polarization of a charged vector field. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 565-573 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 375-380. (B. Kursunoglu) 32 #5139

A method for calculating doubly logarithmic asymptotic formulas. *Jadernaja Fiz.* 10 (1969), 1253-1261 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 710-714. (J. T. Cushing) 43 #7158

Tereščenko, M. Ī.

Explicit solutions of special systems of linear differential equations with polynomial coefficients. (Ukrainian. Russian summary) *Vīsnik Kiïv. Unīv.* 1960, *no.* 3, *Ser. Mat. Meh. vyp.* 2, 94-99 (1961). (G. Biriuk) 33 #2846

(with Martinjuk, D. Ī.) Necessary and sufficient conditions for the existence of solutions in closed form of special linear differential equations with retarded argument. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiïv. Unīv.* 1969, *no.* 11, *Ser. Mat. Meh.*, 74-76. 40 #6014

Tergny, J.

(with Benayoun, R.) Critères multiples en programmation mathématique: Une solution dans le cas linéaire. *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *Sér.* V-2, 31-56. (A. G. Azpeitia) 42 #1508

Ter Haar, D. See ter Haar, D.

Terhune, J. H.

(with Baldwin, G. C.) Nuclear superradiance in solids. *Phys. Rev. Lett.* 14 (1965), 589-591. (A. C. Hurley) 31 #1055

Terina, G. A.

(with Višnevskiĭ, V. V.) On the theory of spaces over tensor products of algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 12-23. (A. Širokov (RŽMat 1969 #8 A515)) 42 #6747

Ter-Israeljan, L. A.

Uniform and tangential approximations of functions that are holomorphic in an angle by meromorphic functions, with an estimate of their growth. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 6 (1971), *no.* 1, 67-80. (L. Zalcman) 44 #4219

Terjanian, Guy

Sur les corps finis. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A167-A169. (John H. Hodges) 33 #2626

Un contre-exemple à une conjecture d'Artin. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A612. (E. Weiss) 33 #5615

Progrès récents dans l'étude de la propriété C_1 des corps. *Séminaire Delange-Pisot-Poitou: 1966/67, Théorie des Nombres, Fasc. 2, Exp. 13, 7 pp. Secrétariat mathématique, Paris,* 1968. (H. Yanagihara) 38 #139

Terkelsen, Frode

On semigroups of operators in locally convex spaces. *Proc. Amer. Math. Soc.* 22 (1969), 340-343. (M. V. Subbarao) 40 #1813

Ter-Krikorov, A. M.

(with Trenogin, V. A.) Solutions of long wave type for quasi-linear elliptic equations in an unbounded strip. (Russian) *Differencial'nye Uravnenija* 3 (1967), 496-508. (J. C. J. Nihoul) 36 #1837

On the asymptotic character of the motion of a conservative system acted on by an aperiodic perturbing force. *Prikl. Mat. Meh.* 33 (1969), 730-736 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 706-713 (1970). (I. Kiguradze) 42 #607

Terleckiĭ, Ja. P.

* Парадоксы теории относительности. (Russian) [Paradoxes in the theory of relativity] *Univ. Družby Narodov im. Patrisa Lumumby, Moscow,* 1965. 140 *pp.* (W. M. Tulczyjew) 33 #2358

* Paradoxes in the theory of relativity. With a foreword by Banesh Hoffmann. Translated from the Russian. *Plenum Press, New York,* 1968. xi + 120 *pp.* (Editors) 38 #3014

Terletskii, Ia. P. See Terleckiĭ, Ja. P.

Terletskiĭ, Ya. P. See Terleckiĭ, Ja. P.

Terletskij, J. P. See Terleckiĭ, Ja. P.

Terletsky, J. P. See Terleckiĭ, Ja. P.

Terletzky, J. See Terleckiĭ, Ja. P.

Terlezki, J. P. See Terleckiĭ, Ja. P.

Ter-Martirosjan, K. A.

(with Popova, Anna M.) Asymptotic behaviour of particle production amplitudes in quasi-elastic shower processes. *Nuclear Phys.* 60 (1964), 107-128. (E. Predazzi) 31 #4408

(with Verdiev, I. A.; Kančeli, O. V.; Matinjan, S. G.; Popova, A. M.) Complex asymptotic expressions for the amplitudes of inelastic processes and singularities in the angular momentum plane. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1700-1714 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1148-1157. (E. Predazzi) 32 #810

Asymptotic behaviour of essentially inelastic collisions. *Nuclear Phys.* 68 (1965), 591-608. (S. Ciulli) 32 #6941

(with Gribov, V. N.; Pomerančuk, I. Ja.) Moving branch points in j plane and Regge-pole unitarity conditions. *Phys. Rev.* 139 (1965), B184-B202. (M. Froissart) 32 #5064

The "enhancement" effect and the contribution from "enhanced" reggeon graphs at attainable energies. *Jadernaja Fiz.* 10 (1969), 1262-1275 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 715-721. (Virendra Singh) 44 #1339

Ter-Martirosyan, K. A. See Ter-Martirosjan, K. A.

Ter-Mikaeljan, M. L.

(with Hačatrjan, B. V.) Diffraction radiation of high-energy particles. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 40 (1965), 13-18. (Z. Janković) 31 #1892

Ter-Mikaèljan, T. M.

Programs with varying order of cycle realization. (Russian) *Problemy Kibernet. No.* 12 (1964), 155-163. (R. See) 32 #4888

Ter-Mikaelyan, M. L. See Ter-Mikaeljan, M. L.

Ter-Mikaèlyan, T. M. See Ter-Mikaèljan, T. M.

Termini, S.

(with Ascoli, R.; Teppati, G.) Particle-antiparticle doublets and the full Poincaré group. *Nuclear Phys.* B14 (1969), 400-412. (P. W. Higgs) 44 #1327

Ternov, I. M.

(with Bagrov, V. G.; Holomaĭ, B. V.) Certain exact solutions of the Dirac equation. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 25 (1970), *no.* 3, 275-280. (K. Kumar) 43 #4379

Ternovskiĭ, I. F. Krasičkov. See Krasičkov-Ternovskiĭ, I. F.

Ternovskiĭ, V. N.

* Ибн Сина (Авиценна) 980-1037. (Russian) [Ibn Sīnā (Avicenna) 980-1037] *Izdat. "Nauka", Moscow,* 1969. 191 *pp. (errata on back cover)* (G. Chogoshvili) 40 #5394

Terol, Procopio Zoroa. See Zoroa Terol, Procopio.

Terouanne, Eric

* L'analyse en composantes canoniques et son utilisation en discrimination. D. E. A. de Mathématiques. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1969-1970, Publication No. 62. *Université de Montpellier, Montpellier,* 1969/70. ii + 19 *pp.* (D. Papamicail) 41 #2840

Terpe, Frank

Maximale eingelagerte absolutkonvergente Integrale. *Math. Nachr.* 28 (1964/65), 257-274. (Chr. Y. Pauc) 31 #3565

Eine Charakterisierung des Lebesgue-Integrals als maximales eingelagertes absolutkonvergentes translationsgleiches Integral. *Math. Nachr.* 32 (1966), 247-256. (B. Walsh) 34 #8159

Über einige nichtabsolutkonvergente Fortsetzungen des Lebesgu Integrals. *Math. Nachr.* 33 (1967), 189-204. (B. Walsh) 36 #2755

Über Abgeschlossenheitseigenschaften allgemeiner Integrale. *Math. Nachr.* 38 (1968), 267-297. (W. A. J. Luxemburg) 39 #1626

Das Stone-Integral als maximales eingelagertes absolutkonvergentes Integral. *Math. Z.* 107 (1968), 59-66. (B. Walsh) 38 #1230

(See also Contributions to extension theory of topological structures, 39 #6268)

Das zu einem Masse gehörige Integral als maximales Integral. *Math. Nachr.* 41 (1969), 139-175. (B. Walsh) 40 #1575

Eingelagerte Vektorverbände und die Kontinuumhypothese. *Z. Math. Logik Grundlagen Math.* 15 (1969), 11-18. (B. Walsh) 39 #756

Terpigoreva, V. M.

Extremal problems for Orlicz classes of analytic functions in the unit circle. (Russian. Latvian and English summaries) *Litovs Mat. Sb.* 3 (1963), *no.* 1, 237-269. (D. Mitrović) 29 #246

Extremal problems for certain classes of analytic functions with bounded mean modulus. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1027-1030. (W. C. Royster) 36 #5357

The form and properties of extremal functions in some linear and nonlinear extremal problems. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 143-155. (P. L. Duren) 37 #427

Extremal problems in certain subclasses of analytic functions of bounded form. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 171-187. (J. G. Krzyż) 42 #516

Terpstra-Keppler, Besseline

(with Kuiper, Nicolaas H.) Differentiable closed embeddings of Banach manifolds. *Essays on Topology and Related Topics (Mémoires dédiés à Georges de Rham), pp.* 118-125. *Springer, New York,* 1970. (R. Bonic) 41 #9300

Terpugov, A. F.

Optimality criteria for dual control systems. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1162-1169. (D. D. Sworder) 30 #2973

Terracini, Alessandro

Elementi curvilinei composti. *Confer. Sem. Mat. Univ. Bari No.* 74 (1962), 16 *pp.* (E. Bompiani) 31 #3955

Elementi curvilinei composti e trasformazioni puntuali. *Math. Notae* 19 (1964), 11-21. (M. Decuyper) 29 #5180

A remark on the cubic primal of S_5 which is filled by the chords of a Veronese surface. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 383-388. *Indiana Univ. Press, Bloomington Ind.,* 1966. (B. Segre) 34 #3419

Una osservazione sull'ipersuperficie cubica ricoperta dalle corde di una superficie di Veronese. (Romanian summary) *Bul. Inst. Politehn. Iasi (N.S.)* 12(16) (1966), *fasc.* 3-4, 7-11. (Editors) 36 #1438

An observation on the cubic hypersurface of S_5 covered by the chords of a Veronese surface. (Spanish) *Univ. Nac. Tucumán Rev. Ser. A* 16 (1966), 131-136. (Editors) 36 #5134

* Selecta. Vol. I, II. Editi col contributo della Accademia Nazionale dei Lincei. *Edizioni Cremonese, Rome,* 1968. *Vol. I:* xxiv + *pp.* 1-395; *Vol. II;* i + *pp.* 397-835. (Editors) 36 #6254

* Ricordi di un matematico. Un sessantennio di vita universitaria. *Edizioni Cremonese, Rome,* 1968. viii + 221 *pp. (10 plates)* (H. C. Kennedy) 39 #6725

Terras, Audrey A.

A generalization of Epstein's zeta function. *Nagoya Math. J.* 42 (1971), 173-188. (T. M. Apostol) 44 #3970

Functional equations of generalized Epstein zeta functions in several complex variables. *Nagoya Math. J.* 44 (1971), 89-95. (T. M. Apostol) 44 #6621

Terrell, D. B.

* Logic: A modern introduction to deductive reasoning. *Holt, Rinehart and Winston, Inc., New York-Toronto, Ont.-London,* 1967. xii + 355 *pp.* (From the author's preface) 35 #2717

Terrell, R. D.

(with Hannan, E. J.) Testing for serial correlation after least squares regression. *Econometrica* 36 (1968), 133-150. (P. Whittle) 38 #844

Terrell, Thomas R.

Local ergodic theorems for N-parameter semigroups of operators. *Contributions to Ergodic Theory and Probability (Proc. Conf., Ohio State Univ., Columbus, Ohio, 1970), pp.* 262-278. *Springer, Berlin,* 1970. (P. R. Halmos) 42 #3255

Terrenoire, Michel

Une généralisation des questionnaires: les pseudo-questionnaires. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A263-A265. (S. Guiaşu) 41 #3171

Pseudo-questionnaires et information. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A884-A887. (S. Guiaşu) 42 #9078

Terrier, Jean-Marc

* Sous-variétés minimales. Thèse présentée à l'École Polytechnique Fédérale, Zurich, pour l'obtention du grade de Docteur ès sciences mathématiques. Thèse no. 3963. *Juris Verlag, Zürich,* 1967. ii + 52 *pp.* (I. Chavel) 36 #5829

Terrill, Robert M.

Laminar flow in a uniformly porous channel. *Aero. Quart.* 15 (1964), 299-310. (Author's summary) 29 #3106

(with Shrestha, Gambhir M.) Laminar flow through parallel and uniformly porous walls of different permeability. (French summary) *Z. Angew. Math. Phys.* 16 (1965), 470-482. (Chia-Shun Yih) 32 #6796

Terry, C. M.

(with Welch, L. R.; Youngs, J. W. T.) The genus of K_n, $n = 12(2^m)$. *Bull. Amer. Math. Soc.* 71 (1965), 653-656. (J. B. Giever) 31 #4022a

(with Welch, L. R.; Youngs, J. W. T.) The genus of K_n, $n = 12s$. *Bull. Amer. Math. Soc.* 71 (1965), 657-660. (J. B. Giever) 31 #4022b

(with Welch, L. R.; Youngs, J. W. T.) The genus of K_{12s}. *J. Combinatorial Theory* 2 (1967), 43-60. (R. C. Read) 34 #6755

(with Welch, L. R.; Youngs, J. W. T.) Solution of the Heawood map-coloring problem--case 4. *J. Combinatorial Theory* 8 (1970), 170-174. (K. Wagner) 41 #3321

Terry, F. Morey. See Morey Terry, F.

Terry Dinerstein, Nelson. See Dinerstein, Nelson Terry.

Tersenov, S. A.

A problem with data on a line of degeneration for systems of equations of hyperbolic type. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 285-288. (P. Ungar) 29 #1439

The Riemann-Hilbert problem for a system of equations degenerating at the boundary. *Dokl. Akad. Nauk SSSR* 155 (1964), 538-541 *(Russian); translated as Soviet Math. Dokl.* 5 (1964), 468-472. (J. L. Kazdan) 36 #1810

On the theory of equations of elliptical type which degenerate at the boundary of the region. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1120-1143. (M. Zerner) 33 #1587

On the Cauchy problem, with data given on a curve of degenerate type, for a hyperbolic equation. (Russian) *Differencial'nye Uravnenija* 2 (1966), 125-130. (B. A. Fleishman) 35 #5778

On the Riemann-Hilbert problem for an elliptic system of equations of the first order degenerating on the boundary. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 167-191. (J. F. Heyda) 33 #2944

On the first boundary value problem for equations of elliptic type degenerating on the boundary. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 311-316. (H. Beckert) 38 #2442

A singular Cauchy problem. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 1032-1035. (A. Kufner) 43 #2350

Tersteeg, G. E.

(with De Silva, C. N.) Axisymmetric vibrations of thin elastic shells. *J. Acoust. Soc. Amer.* 36 (1964), 666-672. (R. P. Nordgren) 29 #792

Terwiel, R. H.

(with Mazur, P.) On the theory of optical activity. I. Optical rotatory power of an isotropic one-component system. *Physica* 30 (1964), 625-664. (D. ter Haar) 31 #2950

On the theory of optical activity. II. Optical rotatory power of an isotropic two-component system. *Physica* 30 (1964), 1027-1037. (D. ter Haar) 31 #2951

On the theory of optical activity. III. Born's coupled oscillators model. *Physica* 30 (1964), 1038-1043. (D. ter Haar) 31 #2952

Ter-Zaharjan, N. P.

Certain quantitative characteristics of algorithmic languages. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 538-540. (E. Engeler) 41 #3280

Terzioğlu, T.

Die diametrale Dimension von lokalkonvexen Räumen. *Collect. Math.* 20 (1969), 49-99. (A. Pietsch) 40 #6231

On Schwartz spaces. *Math. Ann.* 182 (1969), 236-242. (W. H. Ruckle) 40 #683

Tesei, A.

(with de Mottoni, P.) Wightman functions in a model with mass renormalization. (Italian and Russian summaries) *Nuovo Cimento A* (11) 1 (1971), 319-327. (D. Bailin) 44 #6271

(with Salusti, E.) On a semi-group approach to quantum field equations. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 122-138. (P. Federbush) 43 #1560

Tessier, Françoise

Stabilité des singularités d'un système différentiel linéaire à argument retardé. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A720-A722. (J. Kato) 37 #6570

Testa, F. J.

Quantum operator ordering and the Feynman formulation. *J. Mathematical Phys.* 12 (1971), 1471-1474. (J.-P. Antoine) 44 #5037

Testa, Franco

(with Melis, Antonio) Risoluzione numerica della equazione: $1/r\, d/dr\, (r/n\, dn^{\gamma}/dr) + Ln = 0$. riguardante il problema dell'autoconfinamento adiabatico di un plasma. *Rend. Sem. Fac. Sci. Univ. Cagliari* 33 (1963), 438-444. (M. Reghiş) 30 #1617

Testa, R. B

(with Bleich, H. H.) Longitudinal impact of a semi-infinite, cylindrical, viscoelastic shell. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 813-820. (J. A. Morrison) 32 #4956

Testard, Daniel

Algèbre de covariance. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 6 (1967), 267-297. (Z. Takeda) 36 #1991

(with Rocca, François; Sirugue, Michel) Les états quasi libres comme états d'équilibre sous les conditions de Kubo-Martin-Schwinger. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A672-A673. (R. F. Stora) 40 #8388

(with Rocca, François; Sirugue, Michel) États quasi libres invariants de translation et transformations de Bogoliubov. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A722-A723. (Authors' summary) 41 #6501

(with Rocca, F.; Sirugue, M.) Translation invariant quasi-free states and Bogoliubov transformations. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 10 (1969), 247-258. (D. A. Uhlenbrock) 40 #2308

(with Manuceau, J.; Rocca, F.) On the product form of quasi-free states. *Comm. Math. Phys.* 12 (1969), 43-57. (D. A. Uhlenbrock) 40 #3817

(with Rocca, F.; Sirugue, M.) On a class of equilibrium states under the Kubo-Martin-Schwinger boundary condition. I. Fermions. *Comm. Math. Phys.* 13 (1969), 317-334. (F. C. Auluck) 40 #2316

Type des représentations quasilibres de l'algèbre de Clifford. (English summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 12 (1970), 329-341. (W. Wils) 42 #2306

(with Rocca, F.; Sirugue, M.) On a class of equilibrium states under the Kubo-Martin-Schwinger condition. II. Bosons. *Comm. Math. Phys.* 19 (1970), 119-141. (F. C. Auluck) 42 #4149

(with Sirugue, M.) Some connections between ground states and temperature states of thermodynamical systems. *Comm. Math. Phys.* 22 (1971), 223-237. (N. E. Hurt) 44 #6238

Tetenbaum, S. J.

(with Barrett, E. B.; Whitmer, R. F.) Nonlinear interaction of an electromagnetic wave with a plasma layer in the presence of a static magnetic field. III. Theory of mixing. *Phys. Rev.* (2) 135 (1964), A369-A373. (K. C. Westfold) 29 #6882

(with Whitmer, R. F.; Barrett, E. B.) Nonlinear interaction of an electromagnetic wave with a plasma layer in the presence of a static magnetic field. IV. Experimental results. *Phys. Rev.* (2) 135 (1964), A374-A381. (K. C. Westfold) 29 #6883

Teterev, A. G.

Positive invertibility of operations. (Russian) *Functional Anal. Theory of Functions, No. I (Russian), pp.* 83-97. *Izdat. Kazan. Univ., Kazan,* 1963. (G. J. O. Jameson) 34 #8196

The positive invertibility of operations. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 53-56. *Izdat. Kazan. Univ., Kazan,* 1963. (K. Agadžanjan (RŽMat 1964 #8 B529)) 35 #7143

($j;i$)-invertibility of matrices and the method of monotone approximations. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 56-58. *Izdat. Kazan. Univ., Kazan,* 1963. (V. Šišov (RŽMat 1964 #3 B564)) 35 #7568

Positive matrix invertibility and the method of monotone approximations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 143-150. (J. L. Brenner) 29 #5377

A certain generalization of linear and fractional-linear programming. (Russian) *Èkonom. i Mat. Metody* 5 (1969), 440-447. (O. Fajans (RŽMat 1969 #12 V432)) 43 #5914

Teterina, N. I.

(with Sergeeva, L. V.) An investigation of the solution of a stochastic equation with random coefficients. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 3 (1970), 141-154. (D. A. Darling) 43 #8149

(with Sergeeva, L. V.) Diffusion with stochastic parameters. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 695-696. (L. I. Gal'čuk) 42 #8585

Tether, Anthony J.

Construction of minimal linear state-variable models from finite input/output data. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp.* 695-705. *Amer. Soc. Mech. Engrs., New York,* 1970. (Author's summary) 41 #8122

Construction of minimal linear state-variable models from finite input-output data. *IEEE Trans. Automatic Control* AC-15 (1970), 427-436. (Author's summary) 43 #7230

Tetievskaja, I. S. See Gudovič, I. S.

Tetruašvili, M. R.

Certain questions of the theory of an invariant measure in topological groups. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 44 (1966), 11-18. (A. Hulanicki) 35 #1755

Extendability of a solvable class and continuability of a measure in topological groups. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 44 (1966), 265-271. (A. Hulanicki) 35 #1756

Measures of Haar type which are not invariant with respect to the symmetry of a group. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 47 (1967), 519-524. (A. Hulanicki) 37 #5707; erratum, 38, p. 1377

The set of solutions of certain equations in an uncountable group. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 49 (1968), 523-526. (L. Procházka) 37 #4149

The space of invariant measures of maximal character. (Russian) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 2 (1969), 21-26. (P. Gerl) 42 #7868

On the word problem for a certain class of finitely determined semigroups. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 59 (1970), 541-544. (L. Bokut′) 44 #6803

Teugels, Jozef L.

Selective sampling in *k*-dimensional distributions. *Simon Stevin* 37 (1963/64), 55-70. (H. Chernoff) 31 #2782

Exponential decay in renewal theorems. *Bull. Soc. Math. Belg.* 19 (1967), 259-276. (H. Teicher) 37 #7009

Renewal theorems when the first or the second moment is infinite. *Ann. Math. Statist.* 39 (1968), 1210-1219. (C. Stone) 37 #5952

Exponential ergodicity in Markov renewal processes. *J. Appl. Probability* 5 (1968), 387-400. (Author's summary) 38 #1755

Exponential ergodicity in derived Markov chains. *J. Appl. Probability* 5 (1968), 669-678. (Author's summary) 39 #3607

(with Neuts, Marcel F.) Exponential ergodicity of the *M/G/*1 queue. *SIAM J. Appl. Math.* 17 (1969), 921-929. (S. C. Port) 40 #6658

Regular variation of Markov renewal functions. *J. London Math. Soc.* (2) 2 (1970), 179-190. (M. M. Siddiqui) 40 #5035

Simultaneous success-run chains. *Operations Res.* 18 (1970), 132-144. (J. R. Kinney) 42 #5341

Teut, O. M.

A boundary-value problem for a system of partial differential equations of mixed type. (Russian) *Boundary-value problems in the theory of functions of a complex variable, pp.* 40-58. *Izdat. Kazan. Univ., Kazan,* 1962. (A. D. Solomon) 29 #5005

The Cauchy problem for a system of hyperbolic type. (Russian) *Kazan. Gos. Univ. Učen Zap.* 122 (1962), *kn.* 3 ,54-72. (A. Myškis (RŽMat 1963 #7 B257)) 37 #591

A boundary problem of the Hilbert type for a system of equations of mixed type. (Russian) *Kazan State Univ. Survey Conf.* 1962 *(Russian), pp.* 36-38. *Izdat. Kazan. Univ., Kazan,* 1963. (A. D. Solomon) 33 #4437

A boundary value problem of the type of the Hilbert problem for a system of equations of mixed type. (Russian) *Candidates' Works* (1964), *Math., Mech., Phys. (Russian), pp.* 77-86. *Izdat. Kazan. Univ., Kazan,* 1964. (G. Geymonat) 32 #4400

Tevan, György

Die Darstellung der Tensoren mit ihren Tensorkomitanten niedrigerer Stufe in Räumen definiter und indefiniter Metrik. *Publ. Math. Debrecen* 10 (1963), 40-52. (T. K. Pan) 29 #6431

An extension of the rank diminishing algorithms of Egerváry. (Hungarian. English summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 18 (1968), 237-252. (Author's summary) 38 #5799

(with Vincze, E.) Beitrag zur Theorie der Charakterisierung von Determinantenfunktion. *Publ. Math. Debrecen* 15 (1968), 79-86. (G. F. Clements) 39 #226

A method for the solution of linear equation systems. *Studia Sci. Math. Hungar.* 3 (1968), 13-18. (E. R. Hansen) 38 #863

Tėvelis, V.

The growth of periodic meromorphic functions with simple poles. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 165-173. (I. N. Baker) 39 #1658

The growth of periodic meromorphic functions. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 331-342. (I. N. Baker) 39 #2979

The interpolation of meromorphic periodic functions. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 363-371. (I. N. Baker) 41 #3770

Tevjalis, V. See Tėvelis, V.

Ţevy, Ionel

(with Dobrescu, M.; Bîrză, I.; Nica, V.; Constantinescu, A.; Christu, O.) On the conformal representation of simply connected open Riemann surfaces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 16 (1967), *no.* 2, 129-133. (Authors' summary) 38 #6046

A generalization of the concept of continuity in the sense Florin Vasilescu. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 935-943 (Author's summary) 40 #7397

Existence theorems for implicit functions. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 605-611. (V. Barbu (Zbl 165, 499)) 40 #74

On singular points of a continuous mapping. (Romanian. Fren summary) *Stud. Cerc. Mat.* 21 (1969), 361-367. (Author's summary 43 #4977

Idéaux d'ensembles et la propriété de Baire. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1069-1077. (K. M. Garg) 44 #390

Tevzadze, G. N.

On the stratifying surfaces of a completely stratifiable normalization. (Russian. Georgian summary) *Akad. Nauk Gruzin SSR Trudy Tbiliss. Mat. Inst. Razmadze* 29 (1963), 65-75 (1964). (L. Tamássy) 32 #414

On the normalizations associated with a linear complex of lines. (Russian. Georgian summary) *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze* 29 (1963), 77-101 (1964). (L. Tamássy) 32 #415

On the tensor theory of a congruence of lines in a projectiv space. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. S* 35 (1964), 9-14. (A. Goetz) 29 #2727

On normalized congruences of straight lines. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 41 (1966), 521-528. (A. Urban) 34 #5005

A pair of conjugate affine connections induced on a surface of the projective space P_3. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 42 (1966), 257-264. (A. Urban) 34 #5006

R-surfaces and the realization of a pair of conjugate affine connections on surfaces in three-dimensional projective space. (Russian. Loose English summary) *Czechoslovak Math. J.* 17(92) (1967), 520-534. (V. Havel) 36 #2081

On the congruence *W* and surfaces *R*. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 45 (1967), 3-10. (A. Urba 35 #2223

Conditions for the integrability of the fundamental equations of surfaces of a projective space. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 46 (1967), 3-9. (M. Decuyper) 35 #3569

Certain nets on a surface of projective space. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 129 (1968), 343-364. (I. Kolář) 41 #940

The Laplace sequence of normalized congruences. I. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.* 37 (1970), 5-52. (L. Tamássy) 44 #7451

The determination of a surface in three-dimensional projectiv space when its intrinsic geometries are given. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970) 533-536. (M. Decuyper) 43 #2621

R-nets of projectively bendable non-ruled surfaces. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 61 (1971), 525-528. (A. Urban) 44 #935

Tevzadze, N. R.

On the convergence of double lacunary trigonometric series. (Russian. Georgian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964), 77-85. (G. Sunouchi) 31 #5033

Concerning the relationship between the concept of the *A*-integral and the convergence of certain series. (Georgian. Russian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964) 87-93. (R. P. Boas, Jr.) 31 #3566

A remark on the summability of double Fourier series by the Lebesgue method. (Georgian. Russian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 110 (1965), 189-195. (R. P. Boas, Jr.) 34 #6443

A remark on R_λ-summability of double Fourier-Lebesgue series. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Šrom Mekh.-Math. Mecn. Ser.* 117 (1966), 163-171. (S. Verblunsky) 34 #8093

A sequence of functions which depend on a parameter and have absolutely continuous integrals of uniform degree. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 129 (1968), 221-225. (T. Shimogaki) 41 #4133

A certain criterion for convergence of a double series. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 17-20. (E. Stipanić) 42 #6464

The boundaries of indeterminacy limits of a numerical double series. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 59 (1970), 525-528. (O. E. Stanaitis) 44 #564

Tevzadze, T. Š.

The absolute convergence of Fourier series. (Russian. Georgi and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 525-528. (R. P. Boas, Jr.) 42 #4942

Tewari, Krishna

On the injective and projective limit of complexes. *Canad. Math. Bull.* 8 (1965), 291-305. (P. Samuel) 32 #1236

Complex of differential forms. *J. Math. Soc. Japan* 18 (1966), 374-379. (T. K. Pan) 34 #4334

Complexes over a complete algebra of quotients. *Canad. J. Math.* 19 (1967), 40-57. (K. Kondo) 35 #2949

Complexes over an algebra. *Math. Student* 34 (1966), 165-173 (1968). (Ernst Kunz) 39 #5613

Tewari, U. B.

(with Srinivasan, T. P.) A Stone-Weierstrass theorem for semigroups. *Bull. Amer. Math. Soc.* 74 (1968), 1125-1127. (J. Kist) 38 #2236

A note on right invariant integrals on locally compact semigroups. *J. Austral. Math. Soc.* 8 (1968), 512-514. (H. Heyer) 38 #302

Tewarson, Reginald P.

On the product form of inverses of sparse matrices. *SIAM Rev.* 8 (1966), 336-342. (C. G. Cullen) 34 #8631

Row-column permutation of sparse matrices. *Comput. J.* 10 (1967), 300-305. (Author's summary) 36 #1091

A computational method for evaluating generalized inverses. *Comput. J.* 10 (1967/68), 411-413. (Author's summary) 36 #4793

Solution of a system of simultaneous linear equations with a sparse coefficient matrix by elimination methods. *Nordisk Tidskr. Informations-Behandling (BIT)* 7 (1967), 226-239. (Author's summary) 36 #2308

(with Zemanian, A. H.) The numerical evaluation of distributional transforms. *SIAM J. Numer. Anal.* 4 (1967), 271-282. (Z. Ditzian) 38 #533

A direct method for generalized matrix inversion. *SIAM J. Numer. Anal.* 4 (1967), 499-507. (From the author's summary) 36 #2309

The product form of inverses of sparse matrices and graph theory. *SIAM Rev.* 9 (1967), 91-99. (C. G. Cullen) 36 #1092

On the orthonormalization of sparse vectors. (German summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 268-279. (Author's summary) 39 #1103

Solution of linear equations with coefficient matrix in band form. *Nordisk Tidskr. Informations-Behandling (BIT)* 8 (1968), 53-58. (Author's summary) 37 #2425

On the Chebyshev solution of inconsistent linear equations. *Nordisk Tidskr. Informationsbehandling (BIT)* 8 (1968), 232-242. (L. W. Ehrlich) 40 #8237

Projection methods for solving sparse linear systems. *Comput. J.* 12 (1969/70), 77-80. (Author's summary) 39 #1104

The Crout reduction for sparse matrices. *Comput. J.* 12 (1969/70), 158-159. (Author's summary) 39 #3687

A least squares iterative method for singular equations. *Comput. J.* 12 (1969), 388-392. (L. Hageman) 41 #1203

On computing generalized inverses. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 139-152. (C. G. Cullen) 39 #7803

(with Ramnath, B.) Some comments on the solution of linear equations. *Nordisk Tidskr. Informationsbehandling (BIT)* 9 (1969), 167-173. (L. W. Ehrlich) 40 #1022

On some representations of generalized inverses. *SIAM Rev.* 11 (1969), 272-276. (Burton W. Jones) 39 #6890

Minimax solution of $n + 1$ inconsistent linear equations in n unknowns. (German summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 371-376. (J. Legras) 42 #8675

On the use of generalized inverses in function minimization. (German summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 241-248. (Gerard Meyer) 44 #6137

On the transformation of symmetric sparse matrices to the triple diagonal form. *Internat. J. Comput. Math.* 2, 247-258 (1970). (Author's summary) 43 #8231

Tewordt, L.

Generalized Ginzburg-Landau theory of superconducting alloys. *Phys. Rev.* (2) 137 (1965), A1745-A1749. (N. R. Werthamer) 32 #3698

Tews, G.

(with Vahle, H.) Wahrscheinlichkeiten einer χ^2-Verteilung. (English summary) *Biometrische Z.* 11 (1969), 175-202. *(loose errata)* (M. E. Wise) 44 #3417

Tews, Melvin C.

On maps which preserve almost periodic functions. *Duke Math. J.* 37 (1970), 21-28. (I. Schochetman) 40 #4681

Textorius, Björn

(with Marksjö, Bertil) On the stability of linear differential equations in spaces with an indefinite metric. *Math. Scand.* 20 (1967), 177-192. (H. Langer) 36 #4109

Tezin, A. M.

Integral curves of a generalized homogeneous differential equation of the first order. (Russian) *Differencial'nye Uravnenija* 1 (1965), 742-757. (W. A. Coppel) 33 #6027

Tezuka, Yoshikazu

(with Sanada, Hidehiko; Kasahara, Yoshiro) Optimal design of network with discontinuous linear cost function. *Electron. Commun. Japan* 51 (1968), *no.* 3, 1-10. (From the authors' summary) 43 #6009

(with Tanaka, Hideo; Kasahara, M.; Kasahara, Y.) Computation over Galois fields using shiftregisters. *Information and Control* 13 (1968), 75-84. (Authors' summary) 38 #4076

(with Kitahashi, Tadahiro; Nomura, Hirosato; Kasahara, Yoshiro) The characterizing parameters of ternary logical functions and their applications to threshold logical functions. *Electron. Commun. Japan* 52 (1969), *no.* 10, 195-201. (M. Stojaković) 42 #5781

ibn Thābit ibn Qurra, Ibrāhīm ibn Sinān. See Ibrāhīm ibn Sinān ibn Thābit ibn Qurra.

Thābit ibn Qurra al-Ḥarrānī

(See Rozenfel'd, B. A.; Juškevič, A. P., 32 #1092)

Book on the fact that two lines, drawn at angles less than two right angles, intersect. (Russian) Translated and annotated by B. A. Rozenfel'd. *Istor.-Mat. Issled. No.* 15 (1963), 363-380. (E. S. Kennedy) 32 #1093

(See also Juškevič, A. P., 38 #4261)

The book of Abū-l-Ḥasan Thābit ibn Qurra aṣ-Ṣābi' on the composition of ratios. (Russian) Translated from the Arabic by B. A. Rozenfel'd and L. M. Karpova. *Phys. Math. Sci. in the East (Russian), pp.* 9-39. *Izdat. "Nauka", Moscow,* 1966. (E. S. Kennedy) 35 #2702b

(See also Juškevič, A. P., 34 #1136; Karpova, L. M.; Rozenfel'd, B. A., 34 #5612; Rozenfel'd, B. A.; Karpova, L. M., 35 #2702a, 35 #2702c; and Pines, Shlemo, 41 #1477)

Thacher, Henry C., Jr.

Closed rational integration formulas. *Comput. J.* 8 (1965/66), 362-367. (Author's summary) 32 #3281

Solution of transcendental equations by series reversion. *Comm. ACM* 9 (1966), 10-11. (Author's summary) 32 #3271

Computation of the complex error function by continued fractions. *Blanch Anniversary Volume, pp.* 315-337. *Aerospace Research Lab., U. S. Air Force, Washington, D. C.,* 1967. (Walter Gautschi) 35 #2464

(with Cody, W. J) Rational Chebyshev approximations for the exponential integral $E_1(x)$. *Math. Comp.* 22 (1968), 641-649. 37 #2410

(with Cody, W. J.) Chebyshev approximations for the exponential integral Ei(x). *Math. Comp.* 23 (1969), 289-303. 39 #3680

(with Cody, W. J.; Paciorek, Kathleen A.) Chebyshev approximations for Dawson's integral. *Math. Comp.* 24 (1970), 171-178. 41 #2883

Thaer, Clemens

(See Euclid, 38 #4259)

Thaker, P. J.

Some infinite series of second order rotatable designs. *J. Indian Soc. Agric. Statist.* 14 (1962), 110-120. (S. Addelman) 29 #2921

Thaler, A. I.

(with Alexander, J. C.) The boundary count of digital pictures. *J. Assoc. Comput. Mach.* 18 (1971), 105-112. (I. Kaufmann) 44 #2378

A nonarchimedean theory of analytic continuation in several variables. *Proc. Amer. Math. Soc.* 31 (1972), 61-66. (A. F. Monna) 44 #5516

Thaler, Alvin I.

On the Newton polytope. *Proc. Amer. Math. Soc.* 15 (1964), 944-950. (O. F. G. Schilling) 29 #4759

Thaler, R. M.

(with Bilhorn, D. E.; Foldy, L. L.; Tobocman, W.; Madsen, V. A.) Remarks concerning reciprocity in quantum mechanics. *J. Mathematical Phys.* 5 (1964), 435-441. (J. McKenna) 29 #6824

(with Rolnick, William B.) Relativistic scattering of two equal-mass charged particles. *Phys. Rev. Lett.* 14 (1965), 572-574. (F. R. Halpern) 31 #1030

Thalwitzer, Karin

(with Koegst, Manfred) Zum Labyrinthproblem. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 341-350. (M. Aigner) 39 #1355

Charakterisierung eines Labyrinthes durch ein Wort über einem zweistelligen Alphabet. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 157-161. *Teubner, Leipzig,* 1968. (F. Harary) 39 #4042

(with Koegst, Manfred; Wagener, Gisela) Zur Theorie der Schwellenwertfunktionen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 6 (1970), 163-175. (B. Reusch) 42 #7418

Thampuran, D. V.

Extended topology: Filters and convergence. I. *Math. Ann.* 158 (1965), 57-68. (A. D. Wallace) 30 #1487

Extended topology: Moore-Smith convergence. *Portugal. Math.* 24 (1965), 83-98. (P. C. Hammer) 33 #3241

Nets and compactness. *Portugal. Math.* 28 (1969), 37-54. (G. L. Cain, Jr.) 44 #2192

Quasiregularities and quasiregular relations. *Kyungpook Math. J.* 10 (1970), 89-91. (C. R. Borges) 42 #8442

Regular spaces and relations. *Mat. Vesnik* 7(22) (1970), 395-400. (V. S. Krishnan) 42 #3741

Products of proximities. *Mat. Vesnik* 7(22) (1970), 515-517. (H. Herrlich) 44 #984

Than Bang Nguyen. See Nguyen Than Bang.

Thanh Van, Nguyen. See Nguyen Thanh Van.

Thanigasalam, K.

A generalization of Waring's problem for prime powers. *Proc. London Math. Soc.* (3) 16 (1966), 193-212. (T. Hayashida) 34 #5790

On additive number theory. *Acta Arith.* 13 (1967/68), 237-258. (R. A. MacLeod) 36 #5096

Asymptotic formula in a generalized Waring's problem. *Proc. Cambridge Philos. Soc.* 63 (1967), 87-98. (A. L. Whiteman) 34 #2551

On sums of positive integral powers. *Math. Student* 37 (1969), 87-89. (W. G. H. Schaal) 41 #8331

Note on the representation of integers as sums of certain powers. *Proc. Cambridge Philos. Soc.* 65 (1969), 445-446. (B. Garrison) 38 #2110

On sums of positive integral powers. *Bull. Calcutta Math. Soc.* 62 (1970), 133-138. (R. Tijdeman) 43 #6174

Thao, Fam Ngok. See Fam Ngok Thao.

Tharev, E. E.

(with Fedorov, F. I.) On finite transformations of representations of the rotation group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 1, 101-110. (M. E. Mayer) 35 #1702

Tharmaratnam, Veluppillai

Complete primitive distributively generated near-rings. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 293-313. (W. E. Deskins) 36 #5174

Endomorphism near-ring of a relatively free group. *Math. Z.* 113 (1970), 119-135. (G. Betsch) 42 #4600

Tharp, Leslie H.

On a set theory of Bernays. *J. Symbolic Logic* 32 (1967), 319-321. (A. Lévy) 36 #3646

Tharrats, Jesus. See Tharrats Vidal, Jésus-Marie.

Tharrats Vidal, Jésus-Marie

(with Cerceau, O.; Rojo, O.) General operator potential for the two-nucleon system. *J. Mathematical Phys.* 6 (1965), 1315-1320. (L. M. Delves) 32 #2116

Tharthare, Suresh K.

Generalized right angular designs. *Ann. Math. Statist.* 36 (1965), 1535-1553. (S. Addleman) 31 #4133

(with Raghavarao, D.) An inequality for doubly balanced incomplete block designs. *Calcutta Statist. Assoc. Bull.* 16 (1967), 37-39. (I. M. Chakravarti) 36 #1049

(with Shrikhande, S. S.; Raghavarao, D.) "Non-existence of some unsymmetrical partially balanced incomplete block designs": Corrigendum. *Canad. J. Math.* 22 (1970), 191. (Editors) 41 #86

Thas, Joseph Adolf

Contributions to the theory of k-caps in projective Galois spaces. (Dutch. English summary) *Med. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch.* 30 (1968), *no.* 13, 15 *pp.* (G. J. Schellekens) 39 #207

Normal rational curves and k-arcs in Galois spaces. (Italian summary) *Rend. Mat.* (6) 1 (1968), 331-334. (D. Gallarati) 39 #2059

Cross ratio of an ordered point quadruple on the projective line over an associative algebra with a unity element. (Dutch. English summary) *Simon Stevin* 42 (1968/69), 97-111. (F. Bachmann) 42 #941

Normal rational curves and $(q + 2)$-arcs in a Galois space $S_{q-2,\, q}$ $(q = 2^h)$. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 249-252 (1970). (C. Ballester Pereyra) 42 #942

Sur le nombre d'espaces linéaires non isomorphes de n points. *Bull. Soc. Math. Belg.* 21 (1969), 57-66. (C. Ballester Pereyra) 41 #3306

Connection between the Grassmannian $G_{k-1;\, n}$ and the set of the k-arcs of the Galois space $S_{n,q}$. (Italian summary) *Rend. Mat.* (6) 2 (1969), 121-134. (J. F. Rigby) 40 #1872

Theorems concerning the fourdimensional manifold of lines of the threedimensional projective space $S_{3,\gamma}$. *Simon Stevin* 43 (1969/70), 55-59. (C. Ballester Pereyra) 42 #3656

A study concerning the projective line over the total matrix algebra $M_3(K)$ of 3 × 3 matrices with elements in an algebraically closed field K. (Dutch. English summary) *Verh. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch.* 31 (1969), *no.* 112, 151 *pp.* (M. Esser) 43 #5397

Un théorème concernant les systèmes de racines. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 707-710. (F. W. Lemire) 43 #3314

(with Puystjens, R.) Number of regular homographies of a Galois space $S_{n,q}$. (Italian summary) *Rend. Mat.* (6) 3 (1970), 285-289. (B. Artmann) 41 #7523

(with Puystjens, R.) The number of Desargues-configurations of the projective plane $S_{2,q}$ over the Galois field GF(q) with characteristic two or three. *Simon Stevin* 44 (1970/71), 160-170 (M. J. Kallaher) 44 #4631

Thatcher, A. R.

Relationships between Bayesian and confidence limits for pr dictions. (With discussion) *J. Roy. Statist. Soc. Ser. B* 26 (1964), 176-192 *(discussion:* 192-210*)*. (J. Hájek) 30 #5436

Thatcher, James W.

The construction of a self-describing Turing machine. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp.* 165-171. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N.* 1963. 30 #1044

Decision problems for multiple successor arithmetics. *J. Symbolic Logic* 31 (1966), 182-190. (J. R. Büchi) 34 #4139

Characterizing derivation trees of context-free grammars through a generalization of finite automata theory. *J. Comput. System Sci.* 1 (1967), 317-322. (J. A. Schatz) 38 #2024

(with Wright, J. B.) Generalized finite automata theory wit an application to a decision problem of second-order logic. *Math Systems Theory* 2 (1968), 57-81. (L. H. Landweber) 37 #75

Thatcher, R. W.

(with Hussey, M. J. L.; Bernal, M. J. M.) On the construction and use of finite elements. *J. Inst. Math. Appl.* 6 (1970), 263-282. (G. T. McAllister) 44 #1226

Thathachar, M. A. L.

(with Ranganath, H. S.) Exponential boundedness of nonlinea and time-varying feedback systems. *IEEE Trans. Automatic Control* AC-15 (1970), 277-278. (Authors' summary) 42 #8993

Thau, Frederick E.

Optimal time control of non-normal linear systems. *Internat. J. Control* (1) 1 (1965), 363-373. (Author's summary) 33 #1168

A backward equation for a randomly excited diffusion process *IEEE Trans. Automatic Control* AC-13 (1968), 714-716. (Author's summary) 42 #8974

On optimum filtering for a class of linear distributed-parameter systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 610-618. *Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #243

Theaetetus

(See Heller, Siegfried, 38 #5549)

Theckedath, K. K.

(with Murdeshwar, M. G.) Boundedness in a quasi-uniform space. *Canad. Math. Bull.* 13 (1970), 367-370. (R. W. Bagley) 4 #5222

Thedéen, Torbjörn

A note on the Poisson tendency in traffic distribution. *Ann. Math. Statist.* 35 (1964), 1823-1824. (G. Weiss) 29 #6933

Convergence and invariance questions for point systems in R_1 under random motion. *Ark. Mat.* 7, 211-239 (1967). (P. E. Ney) 37 #988

On stochastic stationarity of renewal processes. *Ark. Mat.* 7, 249-263 (1967). (P. E. Ney) 37 #989

On road traffic with free overtaking. *J. Appl. Probability* 6 (1969), 524-549. (G. Newell) 41 #2802

Thedy, Armin

(See Artin, Emil; Braun, Hel, 29 #2791)

Note zu einer Arbeit von R. H. Oehmke und R. Sandler. *J. Rei Angew. Math.* 216 (1964), 88-90. (G. B. Seligman) 29 #3514

(with Hansen-Schmidt, Uwe) Über alternative Gruppoide, derer Zentrum alle Quadrate enthält. *Abh. Math. Sem. Univ. Hamburg* 31 (1967), 152-155. (W. A. McWorter) 37 #2890

Mutationen und polarisierte Fundamentalformel. *Math. Ann.* 177 (1968), 235-246. (K. Meyberg) 37 #2827

(See also Artin, Emil; Braun, Hel, 40 #888)

Generalizations of commutative and alternative rings. *Papers from the "Open House for Algebraists" (Aarhus, 1970), pp.* 27-30. *Mat. Inst., Aarhus Univ., Aarhus,* 1970. (R. H. Oehmke) 42 #7728

Zum Wedderburnschen Zerlegungssatz. *Math. Z.* 113 (1970), 173 195. (W. E. Jenner) 41 #8486

* Lectures in field theory. Lecture Notes Series, No. 27. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1971. ii + 93 *pp.* (N. Sankaran) 43 #3236

On rings with completely alternative commutators. *Amer. J. Math.* 93 (1971), 42-51. (D. Rodabaugh) 43 #300

Theil, E. H.

(with Kreith, K.) A criterion for nondiscrete lower spectra. *J. Math. Anal. Appl.* 24 (1968), 156-160. (H. Beckert) 37 #6624

Theil, Henri

(with Zellner, Arnold) Three-stage least squares: simultane ous estimation of simultaneous equations. *Econometrica* 30 (1962), 54-78. (S. Malmquist) 31 #4122

The information approach to demand analysis. *Econometrica* 33 (1965), 67-87. (E. A. Robinson) 30 #4582

The analysis of disturbances in regression analysis. *J. Amer Statist. Assoc.* 60 (1965), 1067-1079. (A. L. Nagar) 32 #8455

A simplification of the BLUS procedure for analyzing regression disturbances. *J. Amer. Statist. Assoc.* 63 (1968), 242-251. (I. Guttman) 37 #1031

Theiler, George

(with Mihoc, Gh.) The laws of probability for certain statistical indices. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 233-253. (G. Marinescu) 30 #5420

Problems of non-parametric two-dimensional statistics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 263-272. 31 #6323

Two ergodic theorems for complete, stationary liaison chains, of multiplicative order two, with a finite number of states. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 587-598. (H. P. McKean, Jr.) 31 #6282

(with Firescu, D.) A problem of statistical inference. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 109-117. (Authors' summary) 30 #3550

(with Mihoc, Gh.) An ergodic theorem relative to simple, nonhomogeneous chains with complete connection, having a finite number of states. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 493-498. (O. Onicescu) 31 #805

On an ergodic theorem relative to simple, stationary chains with complete connection, having a finite number of states. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 509-516. (O. Onicescu) 31 #806

(with Firescu, D.) On some problems of statistical inference relative to a simple, finite and homogeneous Markov chain. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 3-17. (H. L. Seal) 34 #5251a

(with Firescu, D.) On some criteria for statistical testing of hypotheses relative to a simple, finite and homogeneous Markov chain. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 323-334. (H. L. Seal) 34 #5251b

Processus stochastiqués uniformément ergodiques à paramètre discret. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A24-A27. (M. Iosifescu) 34 #854

Processus stochastiques uniformément ergodiques à paramètre discret. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A79-A82. (M. Iosifescu) 34 #855

(with Firescu, D.) Sur une loi limite normale relativement aux chaînes de Markov et sur quelques implications statistiques. *Wiss. Z. Karl-Marx-Univ. Leipzig Math.-Natur. Reihe* 15 (1966), 293-297. (Z. Šidák) 35 #2343

Uniformly ergodic stochastic processes with discrete parameter. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 191-223. (R. Theodorescu) 36 #2210

(with Mihoc, Gh.) Sur le correspondant non homogène du théorème classique d'ergodicité de la théorie des chaînes à liaisons complètes. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1333-1339. (B. Weiss) 38 #1728

A more refined necessary and sufficient condition for ergodicity of Markov chains with a finite number of states and "constant chains" with an arbitrary number of states. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1513-1519. (M. Iosifescu) 40 #6645

On non-homogeneous chains with complete connection. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 583-586. (I. Cuculescu) 41 #1132

On ergodic chains of infinite order. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 587-597. (I. Cuculescu) 41 #1133

Chains with complete ergodic connections of type [*O-M*] with Fortet distance—problem of the remainder. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1037-1040. (Author's summary) 41 #2780

On the essence of systems with complete connections. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 129-136. (U. Krengel) 40 #5032

On a class of multiple nonhomogeneous Markov chains with an arbitrary number of states. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 137-143. (U. Krengel) 40 #3618

Extended processes with complete connections. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 265-269. (M. Iosifescu) 40 #928

Theissen, Winfried

Beiträge zu einem Abschätzungsverfahren für Lösungen der partiellen Differentialgleichung $\Delta_2 U = L(U)$ in hyperbolischen Räumen beliebiger Dimension. *Bonn. Math. Schr. No.* 28 (1967), vi + 61 *pp.* (A. Aeppli) 36 #6820

Thelidze, M. G.

Schwarz' alternating method for the solution of certain boundary value problems for a linear equation of elliptic type. (Russian) *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom.* 9 (1970), *no.* 3, 34-38. (D. P. Squier) 44 #4360

The application of the Schwarz method to the solution of generalized boundary value problems of differential equations of elliptic type. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 58 (1970), 5-8. (I. Aganović) 42 #8080

Thelliez, Sylvain

Sur la décomposition disjonctive complexe arborescente d'une fonction ternaire en vue de son application à la synthèse des structures combinatoires ternaires. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A419-A421. (E. G. Wagner) 35 #6491

Sur la caractérisation des opérateurs logiques ternaires à seuils en vue de la synthèse des structures combinatoires ternaires. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A98-A99. (J. Florentin) 38 #952

Th'em, Le Van. See Lê Van Thiêm.

van Themaat, W. A. Verloren. See Verloren van Themaat, W. A.

Theocaris, Pericles S.

The method of isostatics applied to rectangular bars with uniform loading. (French, German, Italian, and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 1-19. (Author's summary) 29 #3039

Theodorakis, Gerasimos A.

Analytic study of a category of two variable stochastic models of the growth of a population. (Greek. French summary) *Bull. Soc. Math. Grèce (N.S.)* 6I (1965), *fasc.* 2, 141-221. (D. A. Kappos) 35 #2380

Theodorchik, K. See Teodorčik, K. F.

Théodoresco, N. See Teodorescu, N.

Theodorescu, Ana

On multidimensional distribution functions. (Romanian) *Gaz. Mat. Ser. A* 69 (1964), 250-253. (O. Onicescu) 35 #7377

Theodorescu, Radu

(with Onicescu, O; Sîmboan, G.) A remark on Weierstrass' theorem. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 10 (1961), *no.* 29, 255-257. (Authors' summary) 30 #2273

(with Iosifescu, M.) On some linear chains with complete connexions. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 6 (1961), 167-170. (Editors) 31 #1711

(with Iosifescu, M.) Some remarks on certain models for learning. *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 425-437. (R. D. Luce) 31 #2090

(with Simboan, G.) Statistical spaces. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 699-703. (K. Krickeberg) 31 #1691

(with Sîmboan, Gabriel) On Boolean σ-algebras with measure. (Romanian) *Seminar on Sum-Functions, conducted by O. Onicescu, pp.* 82-84. *Editura Acad. R. P. Romîne, Bucharest,* 1963. (N. Dinculeanu) 32 #1316

(with Maliţa, M.) A mathematical model of negotiations. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 13 (1964), *no.* 2, 9-19. (B. Bereanu) 33 #2421

(with Iosifescu, M.) On nonstationary chains with complete connections. *Bull. Soc. Math. Grèce (N.S.)* 5 (1964), *fasc.* 1, 1-10. (S. M. Berman) 30 #4291

(with Iosifescu, M.) Statistical decisions and linear programming. *C. R. Acad. Bulgare Sci.* 17 (1964), 223-226. (H. F. Karreman) 30 #5812

(with Onicescu, O.; Sîmboan, G.) On the Weierstrass approximation theorem. *C. R. Acad. Bulgare Sci.* 17 (1964), 789-792. (L. de Branges) 29 #5091

Une propriété limite pour les chaînes à liaisons complètes. *C. R. Acad. Sci. Paris* 259 (1964), 1941-1943. (S. M. Berman) 29 #5292

* (with Guiaşu, Silviu) Matematica şi informaţia. (Romanian) [Mathematics and information] *Editura Ştiinţifică, Bucharest,* 1965. 247 *pp.* (O. Onicescu) 32 #2271

* (Ciucu, G.; Iosifescu, M.) Teoria jocurilor. (Romanian) [Theory of games] *Editura Tehnică, Bucharest,* 1965. 247 *pp.* (G. N. Raney) 33 #1138

A Monte Carlo method applied to chains with complete connection. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 14 (1965), *no.* 1, 47-50. (Author's summary) 36 #3407

(with Văduva, I.) On multivariate optimal sampling inspection plans. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 9(57) (1965), 235-245 (1966). (A. K. Gayen) 37 #4915

(with Betez, Mihail) Sur la convergence des séries de variables aléatoires formant un I_ϕ-processus. *C. R. Acad. Sci. Paris* 260 (1965), 4404-4407. (E. A. Robinson) 31 #2748

(with Iosifescu, M.) On learning models of Bush-Mosteller type. (Romanian. English, German and Russian summaries) *Lucrăr. Şti. Inst. Politehn. Braşov* 7 (1965), 25-33. (S. Marcus) 35 #1366

(with Botez, M.) On the ergodic behaviour of discrete random processes. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 991-1010. (D. L. Hanson) 34 #852

On the estimation of the limit probability distribution for chains with complete connections. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1241-1246. (G. E. H. Reuter) 35 #7393

On functional relations of multiple Markov processes. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1367-1375. (G. Marinescu) 37 #3652

Ketten mit vollständigen Bindungen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 449-456. (O. P. Stackelberg) 37 #6997

* (with Guiaşu, Silviu) Teoria matematică a informaţiei. (Romanian) [Mathematical theory of information] *Editura Academiei Republicii Socialiste România, Bucharest,* 1966. 227 *pp.* (K. Krickeberg) 33 #8223

* (with Stoka, Marius) Probabilitate şi geometrie. (Romanian) [Probability and geometry] *Editura Stiinţifică, Bucharest,* 1966. 246 *pp.* (M. Iosifescu) 35 #7364

* (with Iosifescu, Marius; Mihoc, Gheorghe) Teoria probabilitaţilor şi statistica matematica. (Romanian) [Probability theory and mathematical statistics] *Editura Tehnică, Bucharest,* 1966. 483 *pp.* (S. Rudeanu) 36 #5968

(with Penkov, B.) Über die spieltheoretische Behandlung von Prüfplänen. (English summary) *Metrika* 11 (1966), 122-126. (H. W. Kuhn) 37 #3847

On Monte Carlo simulation of learning models of Bush-Mosteller type. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 387-396. (K. Krickeberg) 37 #2542

On the Monte-Carlo simulation of Bush-Mosteller stochastic models for learning. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 595-604. *Academia, Prague,* 1967. (K. Krickeberg) 37 #2541

* (with Reischer, Corina; Sîmboan, Gabriel) Teoria probabilităţilor. (Romanian) [Theory of probability] *Editura Didactică şi Pedagogică, Bucharest,* 1967. 338 *pp.* (H. Cohn) 37 #3605

(with Tănăsescu, A.) Graphische Lösung der Matrizialspiele von der Grössenordnung $3 \times n$. (Russian and French summaries) *Bul. Inst. Politehn. Bucureşti* 29 (1967), *no.* 6, 43-53. (G. Owen) 37 #2535

(with Sîmboan, Gabriel) Sur la liaison entre la fonction de concentration, la concentration, l'énergie informationnelle et l'entropie. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A743-A744. (H. D. Block) 37 #2551

(with Le Calvé, Georges) Systèmes aléatoires à liaisons complètes totalement non homogènes. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A347-A349. (E. S. Boylan) 36 #4631

(with Koutský, Zdeněk) Über die Anwendung der Monte-Carlo-Methode zur näherungsweisen Bestimmung der Grenzverteilungen von Ketten mit vollständigen Bindungen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 127-134. (Authors' summary) 39 #3603

(with Sîmboan, Gabriel) Sur la liaison entre la fonction de concentration, la concentration, l'énergie informationnelle et l'entropie. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1373-1375. (S. Kullback) 39 #2528

* (with Guiaşu, Silviu) La théorie mathématique de l'information. Collection Sigma, 16. Traduit du roumain par Emil Geles. *Dunod, Paris,* 1968. viii + 222 *pp.* (Editors) 39 #1230

(with Văduva, I.) Ein demographisch-mathematisches Modell der Fachleutedynamik. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 227-237 (1969). (M. F. Neuts) 40 #5277

(with Stoka, Marius) Sur la probabilité d'une famille de figures arbitrairement réparties. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1204-A1205. (L. A. Santaló) 38 #1646

Sur les chaînes d'Onicescu et Mihoc au sens large. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A557-A560. (Author's summary) 38 #1735

(with Sîmboan, Gabriel) On the notion of concentration. I. (German and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 235-255. (C. G. Esseen) 39 #7654

(with Sîmboan, G.) On the concentration function. (Hungarian) *Mat. Lapok* 19 (1968), 13-32. (E. Lukacs) 39 #2196

(with Penkov, B.) Über die spieltheoretische Behandlung von Prüfplänen. *Math. und Wirtschaft* 5 (1968), 146-152. (M. Rössler) 42 #8924

(with LeCalvé, G.) On stochastic models for learning. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 497-502. (R. D. Luce) 38 #2855

Minimax solutions of random convex programs. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 689-692. (V. Ionescu) 42 #4212

(with Săcuiu, Ion) Sur l'efficacité des estimateurs. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 9-15. (Authors' summary) 44 #3420

(with Săcuiu, I.) Über den Dispersionskoeffizienten von Lexis. (English summary) *Biometrische Z.* 11 (1969), 297-304. (Bernard Harris) 44 #6085

(with Săcuiu, I.) The variance of a random variables product and the efficiency of certain estimations. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res. No.* 4 (1969), 59-46. (D. R. Brillinger) 41 #2814

On certain distributions concerning order statistics. (Italian summary) *Ist. Lombardo Accad. Sci. Lett. Rend. A* 104 (1970), 188-192. (H. L. Seal) 43 #4203

Random programs. *Mathematical Aspects of Life Sciences, pp.* 20-94. *Queen's Papers in Pure and Appl. Math., No.* 26. *Queen's Univ., Kingston, Ont.,* 1971. (G. Tintner) 43 #1635

(with Le Calvé, G.) Systèmes aléatoires généralisés à liaisons complètes. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 19 (1971), 19-28. (M. Iosifescu) 44 #7622

Theodoros of Cyrene

(See Frajese, A., 35 #2700)

Theodorsen, Theodore

The structure of turbulence. *Fluid Dynamics and Applied Mathematics (Proc. Sympos., Univ. of Maryland, 1961), pp.* 21-27. *Gordon and Breach, New York,* 1962. (J. L. Lumley) 30 #799

Thérond, Jean-Daniel

L'hypothèse de Fermat pour les exposants négatifs. *Enseignement Math.* 13 (1967), 247-252 (1968). (H. London) 38 #5697

L'hypothèse de Fermat pour les exposants négatifs. *Enseignement Math.* (2) 14 (1968), 195-196 (1970). (H. London) 41 #6766

* Détermination effective de certaines décompositions en somme de deux carrés. Thèse présentée à la Faculté des Sciences de Montpellier pour obtenir le grade de Docteur de Spécialité-Mathématiques. Secrétariat des Mathématiques de la Faculté des Scienc de Montpellier, 1969-1970, Publication No. 91. *Université de Montpellier, Montpellier,* 1970. i + 41 *pp.* (H. London) 43 #4794

Theusch, Sister Christelle

Composition of $\Phi_3(X)$ modulo m. *Fibonacci Quart.* 9 (1971), *nc* 1, 23-27. (T. Hayashida) 44 #1623

Theys, M.

Physionomie et traitement des problèmes d'ordonnancement. *Cahiers Centre Études Recherche Opér.* 5 (1963), 211-227. (K. J. Arrow) 33 #2417

Thibault, Roger

Sur une classe particulière de mouvements à champ quasi align *C. R. Acad. Sci. Paris* 260 (1965), 798-800. (C. K. Chu) 33 #2084

Écoulement d'un fluide imparfaitement conducteur avec champ quasi aligné. *C. R. Acad. Sci. Paris* 260 (1965), 1081-1084. (C. K. Chu) 33 #2085

Thie, Paul R.

Sur un nombre considéré par P. Lelong dans l'étude locale d'u ensemble analytique complexe. *C. R. Acad. Sci. Paris* 261 (1965), 303-305. (Author's summary) 31 #4871

The Lelong number of a point of a complex analytic set. *Math Ann.* 172 (1967), 269-312. (W. Stoll) 35 #5661

The area of an analytic set in complex projective space. *Proc Amer. Math. Soc.* 21 (1969), 553-554. (W. Stoll) 39 #474

The Lelong number of a complete intersection. *Proc. Amer. Math. Soc.* 24 (1970), 319-323. (W. Stoll) 40 #5907

Thiebaux, Jean

Testing a Markov hypothesis with independence of intermediate states and restricted order. *Biometrika* 54 (1967), 605-614. (S. Csibi) 36 #6094

Thiel, Christian

* Sense and reference in Frege's logic. Translated from the German by T. J. Blakeley. *D. Reidel Publishing Co., Dordrecht; The Humanities Press, New York,* 1968. ix + 172 *pp.* (M. Boffa) 44 #5220

Thiele, A. A.

The theory of cylindrical magnetic domains. *Bell System Tech. J.* 48 (1969), 3287-3335. (Editors) 40 #5913

Thiele, Ernst-Jochen

Über starke Ersetzungsaxiome in der Mengenlehre. *Colloq. Found. Math., Math. Machines and Appl. (Tihany, 1962), pp.* 57-64. *Akad. Kiadó, Budapest,* 1965. (E. Mendelson) 34 #5656

Über endlich-axiomatisierbare Teilsysteme der Zermelo-Fraenkelschen Mengenlehre. *Z. Math. Logik Grundlagen Math.* 14 (1968), 39-58. (W. Schwabhäuser) 36 #6283

Thiele, H.-J.

(See Contributions to mathematical logic (Proceedings of the Logic Colloquium, Hannover, 1966), 38 #3120)

Thiele, Helmut

"Klassische" und "moderne" Algorithmenbegriffe. *Mathematische und physikalisch-technische Probleme der Kybernetik, pp.* 111-146. *Akademie-Verlag, Berlin,* 1963. (G. Asser) 29 #6995

(with Starke, Peter H.) Zufällige Zustände in stochastischen Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 25-37. (E. C. Posner) 36 #7445

(with Fischer, Klaus; Lindner, Rolf) Stabile stochastische Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 201-213. (A. Salomaa) 37 #6134

Über einen sequentiellen Prädikatenkalkül als Grundlage für den Aufbau problemorientierter algorithmischer Sprachen. *Wiss. Z. Techn. Univ. Dresden* 17 (1968), 1122-1126. (G. Asser) 40 #1278

(with Starke, Peter H.) On asynchronous stochastic automata. *Information and Control* 17 (1970), 265-293. (A. Paz) 43 #3051

Thiele, Ingrid

Vergleichende Betrachtungen über zwei Einschließungssätze zu Eigenwertproblemen der Eingliedklasse. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 18 (1969), 309-314. (L. Collatz) 42 #1323

Thielheim, K. O.

Bemerkungen über die Randbedingungen der asymptotischen Diffusionstheorie. *Z. Physik* 181 (1964), 391-395. (S. Ueno) 32 #2160

Complex quaternion representation of proper Lorentz transformations. *Z. Naturforsch.* 24a (1969), 1858. (A. Pozzi) 40 #7388 (with Blöcker, W.) Note on the two-group transport theory. *Z. Physik* 221 (1969), 9-16. (Authors' summary) 38 #6817

(with Claussen, K.) Two-group neutron transport theory with anisotropic scattering. *Z. Naturforsch.* 25a (1970), 587-594. (K. Imre) 43 #4404

Thielman, Henry P.

Applications of the fixed point theorem by Russian mathematicians. *Nonlinear Integral Equations (Proc. Advanced Seminar Math. Res. Center, U. S. Army, Madison, Wis., 1963), pp. 35-48. Univ. Wisconsin Press, Madison, Wis.,* 1964. (D. H. Hyers) 29 #442

(with Martinek, Johann) A circle theorem related to pure bending of a circular elastically supported thin plate. *J. Math. Mech.* 14 (1965), 707-711. (J. W. Craggs) 31 #2878 (E)

(with Martinek, Johann) Circle and sphere theorems for the biharmonic equation (interior and exterior problems). (German summary) *Z. Angew. Math. Phys.* 16 (1965), 494-501. (Chia-Shun Yih) 32 #4890 (E)

(with Martinek, J.) Laurent type of expansion and general radiation conditions related to solutions of the reduced wave equation. (German summary) *Acta Mech.* 2 (1966), 35-47. (G. Eason) 34 #1026

(with Martinek, Johann) On Green's functions for the reduced wave equation in a circular annular domain with Dirichlet, Neumann and radiation type boundary conditions. *Appl. Sci. Res.* 16 (1966), 5-12. (R. E. Kleinman) 34 #7991

(with Martinek, Johann; Huebschman, Eugene C.) On the zeros of cross-product Bessel functions. *J. Math. Mech.* 16 (1966), 447-452. (F. W. J. Olver) 34 #4562

(with Martinek, Johann) Corrigendum: "A circle theorem related to pure bending of a circular elastically supported thin plate". *J. Math. Mech.* 16 (1967), 787. (Editors) 34 #3841

(with Martinek, Johann) New solutions of the Laplace equation in spherical coordinates. *J. Math. Mech.* 16 (1967), 1177-1182. (D. Ludwig) 35 #533

(with Martinek, J. P.) Corrections to: "Circle and sphere theorems for the biharmonic equation (interior and exterior problems)". *Z. Angew. Math. Phys.* 18 (1967), 297. (Editors) 35 #411

Thiem, Le-Van. See Lê Van Thiêm.

Thierrin, Gabriel

Anneaux métaprimitifs. *Canad. J. Math.* 17 (1965), 199-205. (R. E. Johnson) 30 #1146

(with Derdérian, J.-C.) Demi-groupes séparateurs. *Canad. Math. Bull.* 9 (1966), 611-619. (P.-A. Grillet) 37 #327

Quelques caractérisations du radical d'un anneau. *Canad. Math. Bull.* 10 (1967), 643-647. (C. Yohe) 37 #4116

Permutation automata. *Math. Systems Theory* 2 (1968), 83-90. (J. W. Thatcher) 37 #1198

Décomposition des langages réguliers. *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *Ser.* R-3, 45-50. (J. Brzozowski) 44 #8084

(with Chacron, Maurice) σ-reflexive semigroup and rings. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot:* 1969/70, *Algèbre et Théorie des Nombres, Fasc.* 2, *Exp.* DG16, 5 *pp. Secrétariat mathématique, Paris,* 1970. (E.-A. Behrens) 43 #6347

Ideaux à droite minimaux d'un anneau primitif. *Canad. Math. Bull.* 13 (1970), 385-386. (G. Michler) 43 #4856

Simple automata. (Czech summary) *Kybernetika (Prague)* 6 (1970), 343-350. (F. Gécseg) 43 #6020

Thiéry, Jean

Verification of the Kuhn-Thomas sum rule in the framework of some recent polarizability theories for molecular aggregates. *J. Chem. Phys.* 43 (1965), 553-560. (R. K. Nesbet) 32 #3681

Thiess, Frank B.

Analytic functionals in quantum field theory and the regularization of ultraviolet divergences. *J. Mathematical Phys.* 9 (1968), 305-315. (R. F. Stora) 40 #4757

Thieu, Čan-vu. See Čan-vu Thieu.

Thimm, Walter

Der Weierstraßsche Satz der algebraischen Abhängigkeit von Abelschen Funktionen und seine Verallgemeinerungen. *Festschr. Gedächtnisfeier K. Weierstrass, pp. 123-154. Westdeutscher Verlag, Cologne,* 1966. (K. Kopfermann) 34 #2944

Struktur- und Singularitätsuntersuchungen an kohärenten analytischen Modulgarben. *J. Reine Angew. Math.* 234 (1969), 123-151. (Y.-T. Siu) 39 #5832

Fortsetzung von kohärenten analytischen Modulgarben. *Math. Ann.* 184 (1969/70), 329-353. (Y.-T. Siu) 41 #2055; erratum, 42, p. 1824

Extension of coherent analytic subsheaves. *Several Complex Variables, I (Proc. Conf., Univ. of Maryland, College Park, Md., 1970), pp. 191-202. Springer, Berlin,* 1970. (W. Barth) 43 #3499

Thin', Laĭ Dyk. See Laĭ Dyk Thin'.

Thionet, Pierre

Sur le moment d'ordre (-1) de la distribution binomiale tronquée application à l'échantillonnage de Hájek. *Publ. Inst. Statist. Univ. Paris* 12 (1963), 93-102. (J. Hájek) 31 #827

Note sur les mélanges de certaines distributions de probabilités. *Publ. Inst. Statist. Univ. Paris* 15 (1966), 61-80. (H. Teicher) 34 #2113

Thirring, Walter E.

(with Schwabl, F.) Quantum theory of laser radiation. *Ergebnisse exakt. Naturwissenschaft., Bd. 36, pp. 219-242. Springer, Berlin,* 1964. (A. C. T. Wu) 32 #7076

(with Wess, J. E.) Solution of a field theoretical model in one space-one time dimension. *Ann. Physics* 27 (1964), 331-337. (G. F. Dell'Antonio) 32 #5136

Electromagnetic properties of hadrons in the static SU_6 model. *Acta Phys. Austriaca, Suppl. II* (1965), 205-211. (T. K. Kuo) 33 #5288

(with Wehrl, A.) On the mathematical structure of the B.C.S.-model. *Comm. Math. Phys.* 4 (1967), 303-314. (D. A. Uhlenbrock) 35 #5196

Thirriot, Claude

(with Bednarczyk, S.) Ondulations secondaires en front d'intumescences et ondes solitaires. (English summary) *Houille Blanche* 19 (1964), 879-888. (R. R. Long) 31 #4280

Thiruvenkatachar, V. R.

(with Khosla, P. K.) Effect of radiative transfer on gravitational instability. *Indian J. Math.* 6 (1964), 105-115. (J. S. Goldstein) 32 #3832

(with Viswanathan, K.) Dynamic response of an elastic half space with cylindrical cavity to time-dependent surface tractions over the boundary of the cavity. *J. Math. Mech.* 14 (1965), 541-571. (A. Ben-Menahem) 31 #2870

(with Viswanathan, K.) Dynamic response of an elastic half-space to time-dependent surface tractions over an embedded spherical cavity. *Proc. Roy. Soc. Ser. A* 287 (1965), 549-567. (E. Sternberg) 32 #652

Thiry, Yves

Sur les théories pentadimensionnelles. *Les théories relativistes de la gravitation (Royaumont, 1959), pp. 285-291. Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2061

Thoe, Dale W.

Spectral theory for the wave equation with a potential term. *Arch. Rational Mech. Anal.* 22 (1966), 364-406. (T. Kato) 34 #3381

(with Dolph, C. L.; McLeod, J. B.) The analytic continuation of the resolvent kernel and scattering operator associated with the Schroedinger operator. *J. Math. Anal. Appl.* 16 (1966), 311-332. (F. H. Brownell) 35 #552

On the exponential decay of solutions of the wave equation. *J. Math. Anal. Appl.* 16 (1966), 333-346. (F. H. Brownell) 35 #553

Eigenfunction expansions associated with Schroedinger operators in R_n, $n \geq 4$. *Arch. Rational Mech. Anal.* 26 (1967), 335-356. (S. T. Kuroda) 36 #1856

(with Shenk, Norman) Outgoing solutions of $(-\Delta + q-k^2)u = f$ in an exterior domain. *J. Math. Anal. Appl.* 31 (1970), 81-116. (C. A. Swanson) 41 #7304

(with Shenk, Norman) Eigenfunction expansions and scattering theory for perturbations of $-\Delta$. *Rocky Mountain J. Math.* 1 (1971), *no.* 1, 89-125. (T. Ushijima) 44 #4396

Thom, René

Travaux de Moser sur la stabilité des mouvements périodiques. *Séminaire Bourbaki, 16^e année:* 1963/64, *Fasc.* 1, *Exposé* 264, 13 *pp. Secrétariat mathématique, Paris,* 1964. (J. Moser) 31 #2468

Local topological properties of differentiable mappings. *Differential Analysis, Bombay Colloq., 1964, pp. 191-202. Oxford Univ. Press, London,* 1964. (R. H. Szczarba) 33 #3307

Généralisation de la théorie de Morse aux variétés feuilletées. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 173-189. (W. B. Houston, Jr.) 30 #590

Sur l'homologie des variétés algébriques réelles. *Differential and Combinatorial Topology (A Symposium in Honor of Marston Morse), pp. 255-265. Princeton Univ. Press, Princeton, N. J.,* 1965. (R. Bott) 34 #828

L'équivalence d'une fonction différentiable et d'un polynome. *Topology* 3 (1965), *suppl.* 2, 297-307. (E. A. Feldman) 32 #4702

On some ideals of differentiable functions. *J. Math. Soc. Japan* 19 (1967), 255-259. (J. Eells) 35 #2301

Sur les travaux de Stephen Smale. *Proc. Internat. Congr. Math. (Moscow, 1966), pp. 25-28. Izdat. "Mir", Moscow,* 1968. (Editors) 38 #1703

Local topological properties of differentiable mappings. (Russian) *Singularities of Differentiable Maps (Russian), pp. 164-178. Izdat. "Mir", Moscow,* 1968. (Editors) 39 #3514

An example from R. Thom's paper "Topological stability of polynomial mappings". (Russian) *Singularities of Differentiable Maps (Russian), pp. 179-182. Izdat. "Mir", Moscow,* 1968. (Editors) 39 #7621

(with Levine, Harold I.) Singularities of differentiable mappings. (Russian) *Singularities of Differentiable Maps (Russian), pp. 9-101. Izdat. "Mir", Moscow,* 1968. (C. Teleman) 40 #896

Jets de Liapunov. *Colloque de Topologie Differentielle (Mont-Aigoual, 1969), pp. 64-68. Université de Montpellier, Montpellier,* 1969. (J. Eells) 40 #3567

Sur les variétés d'ordre fini. *Global Analysis (Papers in Honor of K. Kodaira), pp. 397-401. Univ. Tokyo Press, Tokyo,* 1969. (J. Eells) 40 #8068

Ensembles et morphismes stratifiés. *Bull. Amer. Math. Soc.* 75 (1969), 240-284. (S. S. Cairns) 39 #970

Topological models in biology. *Topology* 8 (1969), 313-335. *(2 plates)* (A. H. Copeland, Jr.) 39 #6629

The bifurcation subset of a space of maps. *Manifolds--Amsterdam* 1970 *(Proc. Nuffic Summer School)*, pp. 202-208. *Lecture Notes in Mathematics, Vol.* 197. *Springer, Berlin,* 1971. (J. E. Marsden) 43 #6941

Stratified sets and morphisms: local models. *Proceedings of Liverpool Singularities - Symposium, I* (1969/70), *pp.* 153-164. *Lecture Notes in Mathematics, Vol.* 192. *Springer, Berlin,* 1971. (S. S. Cairns) 44 #1038

Thoma, Elmar

Über positiv-definite Klassenfunktionen abzählbarer Gruppen. *Math. Z.* 84 (1964), 389-402. (A. Hulanicki) 30 #456

Die unzerlegbaren, positiv-definiten Klassenfunktionen der abzählbar unendlichen, symmetrischen Gruppe. *Math. Z.* 85 (1964), 40-61. (S. Sakai) 30 #3382

Invariante positiv definite Klassenfunktionen und ergodische Masse. *Math. Ann.* 162 (1965/66), 172-189. (A. Hulanicki) 35 #2076

Zur harmonischen Analyse klassenfiniter Gruppen. *Invent. Math.* 3 (1967), 20-42. (A. C. M. van Rooij) 35 #4343

Über das reguläre Mass im dualen Raum diskreter Gruppen. *Math. Z.* 100 (1967), 257-271. (A. C. M. van Rooij) 36 #1579

Eine Charakterisierung diskreter Gruppen vom Typ I. *Invent. Math.* 6 (1968), 190-196. (L. Greenberg) 40 #1540

Eine Charakterisierung kompakter Untergruppen lokal-kompakter Gruppen. *Arch. Math. (Basel)* 20 (1969), 1-3. (P. S. Mostert) 39 #4319

(with Kaniuth, Eberhard) Charaktere metabelscher Gruppen. *Arch. Math. (Basel)* 20 (1969), 4-9. (Authors' review (Zbl 176, 302)) 42 #3194

Die Einschränkung der Charaktere von GL(n,q) auf GL(n-1,q). *Math. Z.* 119 (1971), 321-338. (D. K. Friesen) 44 #5388

Thoman, Darrel R.

(with Bain, Lee J.) Some tests of hypotheses concerning the three-parameter Weibull distribution. *J. Amer. Statist. Assoc.* 63 (1968), 853-860. 37 #7035

(with Bain, Lee J.; Antle, Charles E.) Inferences on the parameters of the Weibull distribution. *Technometrics* 11 (1969), 445-460. 39 #6431

(with Bain, Lee J.) Two sample tests in the Weibull distribution. *Technometrics* 11 (1969), 805-815. 41 #4727

Thomas, Alan

Trace in additive categories. *Proc. Cambridge Philos. Soc.* 67 (1970), 541-547. (Y. C. Wu) 40 #5696

Thomas, C. B.

The oriented homotopy type of 3-manifolds. *Bull. Amer. Math. Soc.* 72 (1966), 291-292. (C. H. Edwards, Jr.) 33 #723

Nilpotent groups and compact 3-manifolds. *Proc. Cambridge Philos. Soc.* 64 (1968), 303-306. (D. B. A. Epstein) 38 #1681

(with Livesay, G. R.) Involutions on homotopy spheres. *Proc. Conf. on Transformation Groups (New Orleans, La.,* 1967*)*, *pp.* 143-147. *Springer, New York,* 1968. (C. N. Lee) 42 #1147

(with Livesay, G. R.) Free Z_2 and Z_3 actions on homotopy spheres. *Topology* 7 (1968), 11-14. (P. T. Church) 36 #3343

(See also Algebraic K-theory and its geometric applications, 40 #1450)

Obstructions for group actions on S^{2n-1}. *Algebraic K-Theory and its Geometric Applications (Conf., Hull,* 1969*)*, *pp.* 78-86. *Springer, Berlin,* 1969. (J.-P. Meyer) 41 #1048

Homotopically distinct actions of finite groups. *Illinois J. Math.* 13 (1969), 616-623. (J. A. Schafer) 39 #6306

On periodic maps which respect a symplectic structure. *Proc. Amer. Math. Soc.* 22 (1969), 251-254. (J. A. Schafer) 39 #4833

The oriented homotopy type of compact 3-manifolds. *Proc. London Math. Soc.* (3) 19 (1969), 31-44. (C. H. Edwards, Jr.) 40 #2088

A weak 4-dimensional S-cobordism theorem. *Proc. Cambridge Philos. Soc.* 67 (1970), 549-551. (C. H. Giffen) 41 #4555

Frobenius reciprocity of Hermitian forms. *J. Algebra* 18 (1971), 237-244. (G. Maxwell) 43 #4845

Chern classes and groups with periodic cohomology. *Math. Ann.* 190 (1971), 323-328. (U. Stammbach) 43 #6317

Thomas, D. P.

Electromagnetic diffraction by two coaxial discs. *Proc. Cambridge Philos. Soc.* 60 (1964), 621-634. (A. E. Heins) 29 #1877

Diffraction by two coaxial apertures. *Quart. J. Mech. Appl. Math.* 18 (1965), 107-120. (J. Boersma) 30 #4482

Thomas, David R.

(with David, H. T.) Game value distributions. I. *Ann. Math. Statist.* 38 (1967), 242-250. (A. K. Gayen) 38 #1917

Game value distributions. II. *Ann. Math. Statist.* 38 (1967), 251-260. (A. K. Gayen) 38 #1918

Thomas, Derek Keith

On starlike and close-to-convex univalent functions. *J. London Math. Soc.* 42 (1967), 427-435. (M. S. Robertson) 35 #6812

A note on starlike functions. *J. London Math. Soc.* 43 (1968), 703-706. (M. S. Robertson) 37 #4248

On Bazilevič functions. *Trans. Amer. Math. Soc.* 132 (1968), 353-361. (Ch. Pommerenke) 36 #5330

(with Holland, F.) The area theorem for starlike functions. *J. London Math. Soc.* (2) 1 (1969), 127-134. (E. P. Merkes) 39 #7080

On an extremal problem in univalent functions. *Math. Z.* 109 (1969), 344-348. (F. R. Keogh) 39 #4374

(with London, R. R.) An area theorem for starlike functions. *Proc. London Math. Soc.* (3) 20 (1970), 734-748. (Ch. Pommerenke) 41 #7087

(with Holland, F.) On the order of a starlike function. *Trans. Amer. Math. Soc.* 158 (1971), 189-201. (Ch. Pommerenke) 4 #3438

Thomas, Donald H.

(with Lynch, R. E.; Rice, John R.) Tensor product analysis of partial difference equations. *Bull. Amer. Math. Soc.* 70 (1964) 378-384. (R. S. Varga) 29 #6640

(with Lynch, Robert E.; Rice, John R.) Direct solution of partial difference equations by tensor product methods. *Numer. Math.* 6 (1964), 185-199. (R. S. Varga) 35 #3912

(with Lynch, Robert E.; Rice, John R.) Tensor product analysis of alternating direction implicit methods. *J. Soc. Indust. Appl. Math.* 13 (1965), 995-1006. (E. L. Wachspress (CR 7 #9765)) 33 #6854

(with Buchanan, John E.) On least-squares fitting of two-dimensional data with a special structure. *SIAM J. Numer. Anal.* 5 (1968), 252-257. (H. Wolf) 37 #3740

Thomas, E. S., Jr.

A stronger bridge theorem. *Colloq. Math.* 13 (1964/65), 209-210. (W. W. Comfort) 31 #5185

(with Jones, F. Burton) Connected G_δ graphs. *Duke Math. J.* 33 (1966), 341-345. (P. T. Church) 33 #702

Some characterizations of functions of Baire class 1. *Proc. Amer. Math. Soc.* 17 (1966), 456-461. (Haskell Cohen) 32 #6420

Monotone decompositions of irreducible continua. *Rozprawy Mat.* 50 (1966), 74 *pp.* (L. K. Barrett) 33 #4907

A classification of continua by certain cutting properties. *Fund. Math.* 60 (1967), 139-148. (S. Armentrout) 36 #856

(with Segal, Jack) Isomorphic cone-complexes. *Pacific J. Math.* 22 (1967), 345-348. (S. S. Cairns) 35 #4901

Spaces determined by their homeomorphism groups. *Trans. Amer Math. Soc.* 126 (1967), 244-250. (E. Halfar) 34 #5068

(with Ball, B. J.; Ford, Jo) Extending real maps defined on a subset of a disk. *Proc. Amer. Math. Soc.* 20 (1969), 75-80. (Roman Duda) 38 #3842

(with Ford, Jo) Aligning functions defined on Cantor sets. *Trans. Amer. Math. Soc.* 141 (1969), 63-69. (D. R. McMillan, Jr.) 39 #4811

(with Schwartz, A. J.) The depth of the center of 2-manifold *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*)*, *pp.* 253-264. *Amer. Math. Soc., Providence, R. I.,* 1970. (M. Eisenberg) 41 #7666

Flows on nonorientable 2-manifolds. *J. Differential Equation* 7 (1970), 448-453. (K. R. Meyer) 41 #2163

Thomas, Emery

Exceptional Lie groups and Steenrod squares. *Michigan Math. J.* 11 (1964), 151-156. (J. Stasheff) 29 #610

Steenrod squares and H-spaces. II. *Ann. of Math.* (2) 81 (1965), 473-495. (J. Stasheff) 31 #1671

(with James, Ioan) An approach to the enumeration problem for non-stable vector bundles. *J. Math. Mech.* 14 (1965), 485-506. (J. Stasheff) 30 #5319

On cross sections to fiber spaces. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 40-41. (F. Hirzebruch) 31 #2733

* Seminar on fiber spaces. Lectures delivered in 1964 in Berkeley and 1965 in Zürich. Berkeley notes by J. F. Mc Clendon. Lecture Notes in Mathematics, 13. *Springer-Verlag, Berlin-New York,* 1966. iv + 45 *pp.* (E. Fadell) 34 #3582

The Steenrod squares in the mod two cohomology algebra of an H-space. *Colloque de Topologie (Brussels,* 1964*)*, *pp.* 113-117. *Librairie Universitaire, Louvain,* 1966. (J. Stasheff) 36 #3342

Cross-sections of stably equivalent vector bundles. *Quart. J. Math. Oxford Ser.* (2) 17 (1966), 53-57. (J.-P. Meyer) 33 #493

(with James, Ioan) Note on the classification of cross-sections. *Topology* 4 (1966), 351-359. (G. Hirsch) 35 #3685

(with James, Ioan) On the enumeration of cross-sections. *Topology* 5 (1966), 95-114. (M. W. Hirsch) 33 #4939

Complex structures on real vector bundles. *Amer. J. Math.* 89 (1967), 887-908. (F. Hirzebruch) 36 #3375

Postnikov invariants and higher order cohomology operations. *Ann. of Math.* (2) 85 (1967), 184-217. (M. Mahowald) 35 #1029

Fields of tangent 2-planes on even-dimensional manifolds. *Ann. of Math.* (2) 86 (1967), 349-361. (R. E. Stong) 35 #3699

An exact sequence for principal fibrations. *Bol. Soc. Mat. Mexicana* (2) 12 (1967), 35-45. (E. Fadell) 39 #4847

The index of a tangent 2-field. *Comment. Math. Helv.* 42 (1967), 86-110. (C. B. Allendoerfer) 35 #6158

(with James, Ioan) Submersions and immersions of manifolds. *Invent. Math.* 2 (1967), 171-177. (H. Suzuki) 35 #3686

Fields of tangent k-planes on manifolds. *Invent. Math.* 3 (1967), 334-347. (R. E. Stong) 36 #903

Real and complex vector fields on manifolds. *J. Math. Mech.* 16 (1967), 1183-1205. (M. Mahowald) 35 #1030 (with Hughes, Anthony) A note on certain secondary cohomology operations. *Bol. Soc. Mat. Mexicana* (2) 13 (1968), 1-17. (A. H. Clark) 42 #1110

Vector fields on low dimensional manifolds. *Math. Z.* 103 (1968), 85-93. (H. Suzuki) 36 #7156

Submersions and immersions with codimension one or two. *Proc. Amer. Math. Soc.* 19 (1968), 859-863. (M. L. Curtis) 37 #4820

The span of a manifold. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 225-244. (M. Mahowald) 38 #2804

(with Frank, David) A generalization of the Steenrod-Whitehead vector field theorem. *Topology* 7 (1968), 311-316. (J. F. Adams) 37 #4827

On the existence of immersions and submersions. *Trans. Amer. Math. Soc.* 132 (1968), 387-394. (H. Suzuki) 37 #926

Vector fields on manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 643-683. (F. W. Wilson, Jr.) 39 #3522

The Thom-Massey approach to embeddings. *The Steenrod Algebra and its Applications (Proc. Conf. to Celebrate N. E. Steenrod's Sixtieth Birthday, Battelle Memorial Inst., Columbus, Ohio,* 1970*), pp.* 283-307. *Lecture Notes in Mathematics, Vol.* 168. *Springer, Berlin,* 1970. (M. Mahowald) 44 #4764

Whitney-Cartan product formulae. *Math. Z.* 118 (1970), 115-138. (H. Suzuki) 43 #4026

Cohomology operations on p-fold sums. *Proc. Amer. Math. Soc.* 33 (1972), 551-553. (D. W. Anderson) 44 #7540

Thomas, Erik

Une axiomatique des espaces de Dirichlet. *Sém. Théorie Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny,* 1964/65, *Exp.* 9, 4 *pp. Secrétariat mathématique, Paris,* 1965. (Guy Johnson) 34 #4530

(with Harzallah, Khélifa) Espaces nucléaires. *Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny:* 1966/67, *Exp.* 13, 29 *pp. Secrétariat mathématique, Paris,* 1968. (A. Pietsch) 38 #4943

L'espace $\mathscr{L}^1$ associé à une mesure de Radon vectorielle. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1039-A1042. (Author's summary) 38 #296

Théorèmes de convergence dans l'espace $\mathscr{L}^1(\mu)$ associé à une mesure de Radon vectorielle. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1096-A1098. (Author's summary) 38 #297

Sur les mesures vectorielles à valeurs dans des espaces d'un type particulier. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1135-A1137. (Author's summary) 37 #6431

Sur le théorème d'Orlicz et un problème de M. Laurent Schwartz. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A7-A10. (Author's summary) 37 #6432

L'intégration par rapport à une mesure de Radon vectorielle. *Séminaire Choquet:* 1967/68, *Initiation à l'Analyse, Fasc.* 2: *Analyse Fonctionnelle Générale, Exp.* B.10, 32 *pp. Secrétariat mathématique, Paris,* 1969. (J. Schmets) 44 #403

Some remarks on vector fields. *H-Spaces (Actes Réunion Neuchâtel,* 1970*), pp.* 107-113. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin,* 1971. (C. B. Allendoerfer) 44 #4771

Thomas, Ewart A. C.

Distribution free tests for mixed probability distributions. *Biometrika* 56 (1969), 475-484. (J. A. Beekman) 41 #1177

Alternative models for information processing: Constructing non-parametric tests. *British J. Math. Statist. Psychology* 22 (1969), 105-113. (Author's summary) 41 #2846

Thomas, George B., Jr.

* (with Mosteller, F.; Rourke, Robert E. K.) Вероятность. (Russian) [Probability] Translated from the English by V. V. Firsov. Edited by I. M. Jaglom. *Izdat. "Mir", Moscow,* 1969. 431 *pp.* (Editors) 40 #901

Thomas, Gomer

(with Montague, Stephen) A condition for a finite group to be nilpotent. *Proc. Amer. Math. Soc.* 17 (1966), 1205-1206. (O. H. Kegel) 33 #5731

A characterization of the groups $G_2(2^n)$. *J. Algebra* 13 (1969), 87-118. (T. O. Hawkes) 40 #5725

A characterization of the unitary groups $\mathrm{PSU}_5(q^2)$, $q = 2^n$. *J. Algebra* 14 (1970), 245-259. (T. O. Hawkes) 40 #5726

A characterization of the Steinberg groups $D_4{}^2(q^3)$, $q = 2^n$. *J. Algebra* 14 (1970), 373-385. (T. O. Hawkes) 41 #1861

Thomas, H. Jon

(with Lewis, John B.) An optimal controller for a plant with random parameters. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 54-62. *Univ. of Illinois, Urbana, Ill.,* 1969. (Authors' summary) 41 #8123

Thomas, I. L.

Hamiltonian matrix elements from a symmetric wave function. *Phys. Rev. A* (3) 2 (1970), 728-733. (H. S. P. Grässer) 43 #2938

Thomas, Ivo

The rule of excision in positive implication. *Notre Dame J. Formal Logic* 3 (1962), 64. 33 #3904

Solutions of five modal problems of Sobociński. *Notre Dame J. Formal Logic* 3 (1962), 199-200. 33 #3916

S1° and Brouwerian axioms. *Notre Dame J. Formal Logic* 4 (1963), 151-152. (E. J. Lemmon) 29 #4681

S1° and generalized S5-axioms. *Notre Dame J. Formal Logic* 4 (1963), 153-154. (E. J. Lemmon) 29 #4682

A final note on S1° and the Brouwerian axioms. *Notre Dame J. Formal Logic* 4 (1963), 231-232. (E. J. Lemmon) 29 #4683

Ten modal models. *J. Symbolic Logic* 29 (1964), 125-128. (E. J. Lemmon) 31 #46

Modal systems in the neighbourhood of T. *Notre Dame J. Formal Logic* 5 (1964), 59-61. (E. J. Lemmon) 31 #1188

Universal variable non-Tarskian functors. *Notre Dame J. Formal Logic* 5 (1964), 221-222. (Walter Oberschelp) 33 #7238

Decision procedures for S2^0 and T^0. *Notre Dame J. Formal Logic* 5 (1964), 319-320. (E. J. Lemmon) 31 #3326

Three-valued propositional fragments with classical implication. *Notre Dame J. Formal Logic* 8 (1967), 145-147. 38 #2013

A theorem on S4.2 and S4.4. *Notre Dame J. Formal Logic* 8 (1967), 335-336. (J. Bacon) 44 #6461

Replacement in some modal systems. *J. Symbolic Logic* 33 (1968), 569-570. (N. C. A. da Costa) 39 #5326

In memoriam: Edward John Lemmon (1930-1966). *Notre Dame J. Formal Logic* 9 (1968), 1-3. 38 #3112

The rule of Peirce. *Notre Dame J. Formal Logic* 9 (1968), 34. (From the author's introduction) 39 #2601

(See also Bocheński, I. M., 42 #2910)

Final word on a shortest implicational axiom. *Notre Dame J. Formal Logic* 11 (1970), 16. 43 #3087

In memoriam: A. N. Prior (1914-1969). *Notre Dame J. Formal Logic* 12 (1971), 129-130. 44 #2582

Thomas, J. F. Scott. See Scott-Thomas, J. F.

Thomas, J. W.

(with Sehgal, V. M.) A fixed point theorem for semigroups of mappings with a contractive iterate. *Proc. Amer. Math. Soc.* 29 (1971), 565-568. (A. T.-M. Lau) 43 #7989

Thomas, Johannes

Über die Invarianz der Stabilität bei einem Phasenraum-Homöomorphismus. *J. Reine Angew. Math.* 213 (1963/64), 147-150. (K.-T. Chen) 29 #1398

Variablentrennung bei einer Funktion mehrerer Veränderlicher. *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 558-560. (M. Kuczma) 33 #5822

Über ein Integralgleichungssystem aus der Theorie des logarithmischen Potentials. *J. Reine Angew. Math.* 223 (1966), 1-15. (R. C. MacCamy) 33 #7805

Bemerkung über lineare Differentialgleichungen zweiter Ordnung mit Nebenbedingungen in Integralform. *Math. Nachr.* 31 (1966), 53-56. (J. Stuelpnagel) 33 #7613

Konstruktion eines Konvergenzgebietes der inversen Potenzreihen eines Systems von zwei Potenzreihen in zwei Veränderlichen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 10 (1968), 651-657. (M. E. Noble) 39 #3023

Bemerkung zu einer Note von F. Klein-Barmen. *Jber. Deutsch. Math.-Verein.* 71 (1969), *Heft* 3, *Abt.* 1, 156-159. (J. Riordan) 41 #3293

Variablentrennung bei einer Funktion mehrerer Veränderlicher. *Math. Nachr.* 43 (1970), 231-238. (D. A. Sprecher) 42 #1957

Thomas, John

A note on the homology groups of relations. *Michigan Math. J.* 9 (1962), 217-223. (A. I. Weinzweig) 30 #3471

A dissection problem. *Math. Mag.* 41 (1968), 187-191. (J. J. Burckhardt) 38 #5099

(with Porter, Jack) On *H*-closed and minimal Hausdorff spaces. *Trans. Amer. Math. Soc.* 138 (1969), 159-170. (G. E. Strecker) 38 #6544

Thomas, John B.

(with Carlyle, J. W.) On nonparametric signal detectors. *IEEE Trans. Information Theory* IT-10 (1964), 146-152. (E. L. Lehmann) 29 #3273

(with Yao, K.) On bandlimited properties of Fourier transform pairs of some special functions. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 299-309. *Univ. Illinois, Urbana, Ill.,* 1965. (Authors' summary) 40 #638

(with Kanefsky, M.) On adaptive nonparametric detection systems using dependent samples. *IEEE Trans. Information Theory* IT-11 (1965), 521-526. 32 #7326

(with Kanefsky, M.) On polarity detection schemes with non-gaussian inputs. *J. Franklin Inst.* 280 (1965), 120-138. 31 #5464

(with Kobayashi, Hisashi) Distance measures and related criteria. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 491-500. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8131

(with Lugannani, Robert) On a class of stochastic processes which are closed under linear transformations. *Information and Control* 10 (1967), 1-21. (Authors' summary) 35 #1080

On systems with unknown or uncertain parameters. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 634-645. *Univ. of Illinois, Urbana, Ill.,* 1968. (Author's summary) 41 #8068

(with Lugannani, R.) The central limit theorem for a class of stochastic processes. *J. Math. Anal. Appl.* 24 (1968), 25-38. (W. L. Steiger) 38 #3910 (with Lugannani, Robert) On some characterization problems connected with stochastic integrals. *Quart. Appl. Math.* 29 (1971), 53-63. (R. A. Mureika) 44 #6067

Thomas, Joseph Miller

* The four color theorem. *Published by Joseph M. Thomas, 60 Slocum Street, Philadelphia, Pa.,* 1969. i + 13 *pp.* (F. Bernhart) 42 #1098

Thomas, J. Pelham

Maximal non-T_i spaces, $i = 0,1,2,3$. *Amer. Math. Monthly* 74 (1967), 169-171. (S. Swaminathan) 34 #6710

Associated regular spaces. *Canad. J. Math.* 20 (1968), 1087-1092. (K. D. Magill, Jr.) 37 #6901

Maximal connected topologies. *J. Austral. Math. Soc.* 8 (1968), 700-705. (D. W. Hall) 38 #5177

The long line as a subset of $\phi(R)$. *Amer. Math. Monthly* 76 (1969), 675-677. (L. K. Barrett) 40 #4929

Thomas, Michael E.

* (with Gue, Ronald L.) Mathematical methods in operations research. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1968. xi + 385 *pp.* (G. Berman) 38 #917

Thomas, Paul D.

Transparency assumption in hypersonic radiative gas dynamics. *AIAA J.* 3 (1965), 1401-1407. (O. R. Burggraf) 31 #6480

Thomas, R. Emerson

(with Boesch, F. T.) On graphs of invulnerable communication nets. *IEEE Trans. Circuit Theory* CT-17 (1970), 183-192. (P. Vondráček) 42 #2865

Thomas, R. H.

(with Walters, K.) The stability of elastico-viscous flow between rotating cylinders. II. *J. Fluid Mech.* 19 (1964), 557-560. (D. W. Dunn) 29 #5485

(with Walters, K.) On the flow of an elastico-viscous liquid in a curved pipe of elliptic cross-section under a pressure-gradient. *J. Fluid Mech.* 21 (1965), 173-182. (M. N. L. Narasimhan) 30 #2802

Thomas, R. S. D.

The equality of a manifold's rank and dimension. *Canad. Math. Bull.* 12 (1969), 183-184. (W. S. Piper) 39 #4874

Commuting continuous flows on manifolds. *Math. Systems Theory* 4 (1970), 193-197. (R. F. Williams) 43 #6948

Thomas, Tracy Y.

Outline of a theory of the universe. *Proc. Nat. Acad. Sci. U.S.A.* 51 (1964), 718-723. (C. Gilbert) 29 #2092

Gravitational collapse. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1309-1312. (C. Gilbert) 30 #940

* Concepts from tensor analysis and differential geometry. Second edition. Mathematics in Science and Engineering, Vol. 4. *Academic Press, New York-London,* 1965. viii + 178 *pp.* (T. J. Willmore) 32 #4623

On the masses and energies of finite bodies in general relativity theory. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 355-358. (B. K. Dutta) 32 #983

Galactic discretization and the future of the universe. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 227-229. (C. Gilbert) 30 #3744

Discretization in galactic structure and cosmology. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 389-412. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (C. Gilbert) 34 #3983

Mathematical foundations of the theory of shocks in gases. *J. Math. Anal. Appl.* 26 (1969), 595-629. (Editors) 38 #6796

Thomas, V. J.

A stochastic population model related to human populations. *J. Roy. Statist. Soc. Ser. A* 132 (1969), 89-104. 39 #7790

Thomas, Y.

(with Kagiwada, H.; Kalaba, R.) Exact solution of Pontryagin's equations of optimal control. I. *J. Optimization Theory Appl.* 5 (1970), 12-22. (V. F. Dem'janov) 41 #9621

Thomason, Richmond H.

(with Belnap, N. D., Jr.; Leblanc, H.) On not strengthening intuitionistic logic. *Notre Dame J. Formal Logic* 4 (1963), 313-320. (B. van Rootselaar) 29 #4680

(with Leblanc, Hugues) The demarcation line between intuitionist logic and classical logic. *Z. Math. Logik Grundlagen Math.* 12 (1966), 257-262. (S. Maehara) 35 #1447

(with Leblanc, H.) All or none: A novel choice of primitives for elementary logic. *J. Symbolic Logic* 32 (1967), 345-351. (M. R. Krom) 36 #27

A decision procedure for Fitch's propositional calculus. *Notre Dame J. Formal Logic* 8 (1967), 101-117. (From the author's introduction) 38 #3139

(with Leblanc, H.) Completeness theorems for some presupposition-free logics. *Fund. Math.* 62 (1968), 125-164. (H. B. Curry) 38 #983

On the strong semantical completeness of the intuitionistic predicate calculus. *J. Symbolic Logic* 33 (1968), 1-7. (B. van Rootselaar) 39 #1301

(with Johnson, D. Randolph, Jr.) Predicate calculus with fre quantifier variables. *J. Symbolic Logic* 34 (1969), 1-7. (E. G. Fuhrken) 39 #5328

A semantical study of constructible falsity. *Z. Math. Logik Grundlagen Math.* 15 (1969), 247-257. (D. Nelson) 41 #1510

* Symbolic logic. An introduction. *The Macmillan Co., New York [Collier-Macmillan, Ltd., London],* 1970. xiii + 367 *pp.* (J. Corcoran and C. Lambros) 43 #4627

Some completeness results for modal predicate calculi. *Philo sophical Problems in Logic. Some Recent Developments, pp.* 56-76. *Reidel, Dordrecht,* 1970. (N. B. Cocchiarella) 43 #4644

Thomason, S. K.

The forcing method and the upper semilattice of hyperdegrees. *Trans. Amer. Math. Soc.* 129 (1967), 38-57. (S. Feferman) 36 #25C

A note on non-distributive sublattices of degrees and hyperdegrees. *Canad. J. Math.* 21 (1969), 147-148. (S. Feferman) 39 #58

Sublattices and initial segments of the degrees of unsolvability. *Canad. J. Math.* 22 (1970), 569-581. (K. Appel) 42 #73

A theorem on initial segments of degrees. *J. Symbolic Logic* 35 (1970), 41-45. (J. R. Shoenfield) 44 #6493

On initial segments of hyperdegrees. *J. Symbolic Logic* 35 (1970), 189-197. (G. E. Sacks) 44 #5225

A proof of Whitman's representation theorem for finite lattices. *Proc. Amer. Math. Soc.* 25 (1970), 618-619. (R. P. Dilwort 42 #146

Thomasson, R. L.

(with Kapadia, C. H.) On estimating the parameter of a truncated geometric distribution. *Ann. Inst. Statist. Math.* 20 (1968) 519-523. 38 #3964

Thomasson, T. C., Jr.

(with Roselle, D. P.) On generalized Langford sequences. *J. Combinatorial Theory Ser. A* 11 (1971), 196-199. (M. Hochberg) 43 #3135

Thomée, Vidar

Elliptic difference operators and Dirichlet's problem. *Contributions to Differential Equations* 3 (1964), 301-324. (W. Littman) 29 #746

Stability of difference schemes in the maximum-norm. *J. Diffe ential Equations* 1 (1965), 273-292. (P. Rózsa) 31 #515

On maximum-norm stable difference operators. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland, 1965), pp.* 125-151. *Academic Press, New York,* 1966. (J. R. Cannon) 35 #1225

Parabolic difference operators. *Math. Scand.* 19 (1966), 77-107. (H.-O. Kreiss) 35 #590

(with Peetre, Jaak) On the rate of convergence for discrete initial-value problems. *Math. Scand.* 21 (1967), 159-176 (1969). (D. F. Mayers) 40 #8292

Generally unconditionally stable difference operators. *SIAM J. Numer. Anal.* 4 (1967), 55-69. (W. G. Strang) 35 #3916

Some topics in stability theory for partial difference operators. *Numerical Analysis of Partial Differential Equations (C.I.M.E. 2° Ciclo, Ispra, 1967), pp.* 441-468. *Edizioni Cremonese, Rome,* 1968. (H.-O. Kreiss) 39 #6529

(with Bramble, J. H.; Kellogg, R. B.) On the rate of convergence of some difference schemes for second order elliptic equation *Nordisk Tidskr. Informationsbehandling (BIT)* 8 (1968), 154-173. (W. G. Strang) 38 #6773

(with Westergren, Bertil) Elliptic difference equations and interior regularity. *Numer. Math.* 11 (1968), 196-210. (Authors' summary) 36 #7347

Discrete interior Schauder estimates for elliptic difference operators. *SIAM J. Numer. Anal.* 5 (1968), 626-645. (L. Veidinger) 38 #6781

(with Bramble, J. H.; Hubbard, B. E.) Convergence estimates for essentially positive type discrete Dirichlet problems. *Math. Comp.* 23 (1969), 695-709. (G. T. McAllister) 42 #1350

(with Bramble, J. H.) Pointwise bounds for discrete Green's functions. *SIAM J. Numer. Anal.* 6 (1969), 583-590. (M. Zlámal) 41 #7870

Stability theory for partial difference operators. *SIAM Rev.* 11 (1969), 152-195. (A. O. Garder, Jr.) 40 #3739

On the convergence of difference quotients in elliptic problems. *Numerical Solution of Field Problems in Continuum Physics (Proc. Sympos. Appl. Math., Durham, N. C., 1968), SIAM-AMS Proc., Vol. II, pp.* 186-200. *Amer. Math. Soc., Providence, R. I.,* 1970. (P. Laasonen) 41 #4834

(with Kreiss, H. O.; Widlund, O.) Smoothing of initial data and rates of convergence for parabolic difference equations. *Comm. Pure Appl. Math.* 23 (1970), 241-259. (W. Gilbert Strang) 40 #5160

(with Brenner, Philip) Stability and convergence rates in L_p for certain difference schemes. *Math. Scand.* 27 (1970), 5-23. (D. F. Mayers) 43 #4279

Thomeier, Siegfried

Über eine Beziehung zwischen unstabilen und stabilen Homotopiegruppen von Sphären. *Arch. Math.* 15 (1964), 351-353. (J.-P. Meyer) 31 #6235

Einige Ergebnisse über Homotopiegruppen von Sphären. *Math. Ann.* 164 (1966), 225-250. (M. A. Kervaire) 34 #813

Thommen, Hans U.

Nonequilibrium flow of dilute reacting gases. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 169-176. (M. D. Van Dyke) 31 #5425

Numerical integration of the Navier-Stokes equations. (German summary) *Z. Angew. Math. Phys.* 17 (1966), 369-384. (R. C. Lock) 34 #5387

Thompson, Alan H.

(with Reynolds, R. F.) Projective-symmetric spaces. *J. Austral. Math. Soc.* 7 (1967), 48-54. (P. D. Thomas) 34 #8339

On second order recurrent space-times. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 121-124. (Y.-C. Wong) 37 #866

The conformal generalisation of the Herglotz-Noether theorem. *Tensor (N.S.)* 19 (1968), 119-120. (W. B. Houston, Jr.) 36 #4501

On second order recurrent space-times. II. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 661-670. (Y.-C. Wong) 41 #5027

(with Farnsworth, David) Projections naturelles d'une variété V_{n+1} à métrique hyperbolique normale. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A648-A650. (J. D. Zund) 41 #971

(with Farnsworth, David L.) Projection des identités de Bianchi d'une variété riemannienne V_{n+1}. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A975-A977. (J. D. Zund) 41 #972

On conformally flat 2-recurrent Riemannian spaces. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 505-510. (Y.-C. Wong) 40 #7986

A note on Zund's classes of conformal transformations. *Tensor (N.S.)* 20 (1969), 35-36. (T. Nagano) 39 #2102

On Riemannian spaces of second-order recurrent curvature. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 335-340. (K. K. Gorowara) 41 #7596

(with Farnsworth, D. L.) A note on Jakubowicz's Riemannian spaces. *Tensor (N.S.)* 21 (1970), 229-232. (F. A. E. Pirani) 41 #5006

Thompson, Alexander John

(See Mansell, W. E., 29 #3675)

Thompson, Anne C. See Baker, Anne C.

Thompson, Anthony C.

On the eigenvectors of some not-necessarily-linear transformations. *Proc. London Math. Soc.* (3) 15 (1965), 577-598. (M. Edelstein) 32 #364

(with Edelstein, M.) Contractions, isometries and some properties of inner-product spaces. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 326-331. (A. McIntosh) 36 #5672

A spectral theorem for positive operators. *J. London Math. Soc.* 44 (1969), 485-495. (F. F. Bonsall) 38 #6385

Thompson, B. V.

Variational calculation for the Ising model. *Phys. Rev.* (2) 138 (1965), A1433-A1441. (D. R. Hamann) 33 #2322

Thompson, C. L.

Upper bound for the double spectral function in potential scattering. *J. Phys. Soc. Japan* 20 (1965), 643-648. (Author's summary) 32 #808

Carleman's formula for subharmonic functions. *Proc. Cambridge Philos. Soc.* 62 (1966), 51-59. (M. Brelot) 32 #7775

Thompson, Colin J.

Algebraic derivation of the partition function of a two-dimensional Ising model. *J. Mathematical Phys.* 6 (1965), 1392-1395. (R. B. Potts) 31 #5599

Inequality with applications in statistical mechanics. *J. Mathematical Phys.* 6 (1965), 1812-1813. (K. Hepp) 32 #7110

Phase transition of a two-dimensional continuum—Ising model. *J. Mathematical Phys.* 7 (1966), 531-534. (G. A. Baker, Jr.) 32 #8908

(with Kac, Mark) On the mathematical mechanism of phase transition. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 676-683. (A. A. Maradudin) 33 #5318

(with Kac, Mark) Critical behavior of several lattice models with long-range interaction. *J. Mathematical Phys.* 10 (1969), 1373-1386. (From the authors' summary) 40 #3859

(with Lieb, Elliott H.) Phase transition in zero dimensions: A remark on the spherical model. *J. Mathematical Phys.* 10 (1969), 1403-1406. (Authors' summary) 40 #3864

(with Kac, Mark) One dimensional gas in gravity. *Norske Vid. Selsk. Forh. (Trondheim)* 42 (1969), 63-73. (P. Havas) 42 #4155

(with Kac, Mark) Phase transition and eigenvalue degeneracy of a one dimensional anharmonic oscillator. *Studies in Appl. Math.* 48 (1969), 257-264. (D. O. Banks) 41 #3049

On the ratio of consecutive eigenvalues in N-dimensions. *Studies in Appl. Math.* 48 (1969), 281-283. (D. O. Banks) 41 #2242

Eigenvalue degeneracy and existence and non-existence of a phase transition in one dimension. *Studies in Appl. Math.* 48 (1969), 299-309. (S. Sherman) 41 #1341

Upper bounds for Ising model correlation functions. *Comm. Math. Phys.* 24 (1971/72), 61-66. (S. Sherman) 44 #7916

Thompson, Daniel P.

(with Layzer, David; Horák, Zdeněk; Lewis, Margaret N.) Second-order Z-dependent theory of many-electron atoms. *Ann. Physics* 29 (1964), 101-124. (T. Arai) 31 #3121

Thompson, Gene Thomas

The asymptotic expansion of the integrals psi and chi in terms of Tchebycheff polynomials. *Math. Comp.* 19 (1965), 661-663. 33 #863

(with Kohfeld, J. J.) Multistep methods with modified predictors and correctors. *J. Assoc. Comput. Mach.* 14 (1967), 155-166. (Authors' summary) 39 #3706

Thompson, Gerald L.

* (with Kemeny, John G.; Snell, J. Laurie) Einführung in die endliche Mathematik. Deutsche Übersetzung: Ferdinand Lipowsky und Luitgard Sieber. *Fachverlag für Wirtschaftstheorie und Ökonometrie, Ludwigshafen am Rhein,* 1963. vii + 386 pp. (Editors) 32 #3846

(with Charnes, A.; Cooper, W. W.) Critical path analyses via chance constrained and stochastic programming. *Operations Res.* 12 (1964), 460-470. (Authors' summary) 29 #2105

(with Charnes, A.; Cooper, W. W.) Constrained generalized medians and hypermedians as deterministic equivalents for two-stage linear programs under uncertainty. *Management Sci.* 12 (1965), 83-112. (E. M. L. Beale) 33 #2412

On the parts requirements problem. *Operations Res.* 13 (1965), 453-461. (H. Künzi) 32 #5394

(with Morgenstern, Oskar) An open expanding economy model. *Naval Res. Logist. Quart.* 16 (1969), 443-457. (A. C. Williams) 41 #3082

(with Weil, Roman L., Jr.) Further relations between game theory and eigensystems. *SIAM Rev.* 11 (1969), 597-602. (A. J. Lohwater) 43 #7219

(with Weil, Roman L.) Reducing the rank of $(A - \lambda B)$. *Proc. Amer. Math. Soc.* 26 (1970), 548-554. (M. Lotkin) 42 #1324

Thompson, H. B.

(with Morris, Sidney A.) Topologies on finite groups. *Bull. Austral. Math. Soc.* 1 (1969), 315-317. (T. Husain) 41 #3656

Thompson, J. W.

A property of some symmetric two-stage sequential procedures. *Ann. Math. Statist.* 35 (1964), 755-761. (H. Chernoff) 29 #711

(with Kotiah, T. C. T.; Waugh, W. A. O'N.) Use of Erlangian distributions for single-server queueing systems. *J. Appl. Probability* 6 (1969), 584-593. (R. Fischler) 40 #6657

Thompson, James

(with Schrank, Glen) Algebraic classification of four-dimensional Riemann spaces. *J. Mathematical Phys.* 10 (1969), 766-770. (N. Rosen) 39 #4789

Thompson, James Lowry

Some existence theorems for the traction boundary value problem of linearized elastostatics. *Arch. Rational Mech. Anal.* 32 (1969), 369-399. (W. E. Boyce) 38 #5423

Thompson, James R.

Some shrinkage techniques for estimating the mean. *J. Amer. Statist. Assoc.* 63 (1968), 113-122. (D. A. Sprott) 37 #3681

(with Alam, Khursheed) Locally averaged risk. *Ann. Inst. Statist. Math.* 21 (1969), 457-469. (D. V. Lindley) 41 #4728

Thompson, Jan

On the total regularity of function-to-function transformations of triangular type. *Math. Scand.* 18 (1966), 19-22. (A. Persson) 33 #7739

Thompson, John G.

Two results about finite groups. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 296-300. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #248

(with Feit, Walter) Solvability of groups of odd order. *Pacific J. Math.* 13 (1963), 775-1029. (M. Suzuki) 29 #3538

Normal p-complements for finite groups. *J. Algebra* 1 (1964), 43-46. (Graham Higman) 29 #4793

Automorphisms of solvable groups. *J. Algebra* 1 (1964), 259-267. (T. Berger) 30 #3920

Fixed points of p-groups acting on p-groups. *Math. Z.* 86 (1964), 12-13. (N. Ito) 29 #5911

(with Janko, Zvonimir) On a class of finite simple groups of Ree. *J. Algebra* 4 (1966), 274-292. (Rimhak Ree) 34 #1386

Hall subgroups of the symmetric groups. *J. Combinatorial Theory* 1 (1966), 271-279. (P. Dembowski) 33 #5711

Factorizations of p-solvable groups. *Pacific J. Math.* 16 (1966), 371-372. (R. Steinberg) 32 #5735

(with Rothaus, Oscar) A combinatorial problem in the symmetric group. *Pacific J. Math.* 18 (1966), 175-178. (D. E. Littlewood) 33 #4130

Vertices and sources. *J. Algebra* 6 (1967), 1-6. (I. Reiner) 34 #7677

Toward a characterization of $E_2^*(q)$. *J. Algebra* 7 (1967), 406-414. (W. Feit) 36 #6496

An example of core-free quasinormal subgroups of p-groups. *Math. Z.* 96 (1967), 226-227. (E. E. Shult) 34 #7658

Centralizers of elements in p-groups. *Math. Z.* 96 (1967), 292-293. (E. E. Shult) 35 #255

On a question of L. J. Paige. *Math. Z.* 99 (1967), 26-27. (L. J. Paige) 35 #2968

Defect groups are Sylow intersections. *Math. Z.* 100 (1967), 146. (O. H. Kegel) 35 #4296

Characterizations of finite simple groups. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 158-162. *Izdat. "Mir", Moscow,* 1968. (J. H. Walter) 38 #4555

Nonsolvable finite groups all of whose local subgroups are solvable. *Bull. Amer. Math. Soc.* 74 (1968), 383-437. (D. Gorenstein) 37 #6367

(with Glauberman, G.) Weakly closed direct factors of Sylow subgroups. *Pacific J. Math.* 26 (1968), 73-83. Graham Higman) 38 #3337

Envelopes and p-signalizers of finite groups. *Illinois J. Math.* 13 (1969), 87-90. (E. Schenkman) 38 #5914

A replacement theorem for p-groups and a conjecture. *J. Algebra* 13 (1969), 149-151. (A. Mann) 39 #6989

A non-duality theorem for finite groups. *J. Algebra* 14 (1970), 1-4. (J. H. Walter) 40 #4356

Normal p-complements and irreducible characters. *J. Algebra* 14 (1970), 129-134. (T.-Y. Lam) 40 #5719

Bounds for orders of maximal subgroups. *J. Algebra* 14 (1970), 135-138. (A. Mann) 40 #5720

(with Janko, Zvonimir) On finite simple groups whose Sylow 2-subgroups have no normal elementary subgroups of order 8. *Math. Z.* 113 (1970), 385-397. (I. D. Macdonald) 44 #309

Nonsolvable finite groups all of whose local subgroups are solvable. II. *Pacific J. Math.* 33 (1970), 451-536. (D. K. Friesen) 43 #2072

Thompson, Kerris W.

(with Cox, Joseph R.) On the inverse scattering problem at fixed energy for potentials having nonvanishing first moments. *J. Mathematical Phys.* 11 (1970), 805-814. (A. Dalgarno) 41 #6502

(with Cox, Joseph R.) Note on the uniqueness of the solution of an equation of interest in the inverse scattering problem. *J. Mathematical Phys.* 11 (1970), 815-817. (A. Dalgarno) 41 #6503

Thompson, Maynard

(with Walsh, J. L.) Approximation with auxiliary conditions. *J. Math. Mech.* 13 (1964), 1015-1019. (J. L. Ullman) 30 #1253

Approximation of bounded analytic functions on the disc. *Nieuw Arch. Wisk.* (3) 15 (1967), 49-54. (A. Friedman) 36 #396

On the distribution of asymptotically neutral families. *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif., 1966), pp.* 475-479. *Amer. Math. Soc., Providence, R. I.,* 1968. (J. H. Curtiss) 38 #4640

Complex polynomial interpolation to continuous boundary data. *Proc. Amer. Math. Soc.* 20 (1969), 327-332. (K. R. Unni) 39 #459

Thompson, Philip A.

A one-dimensional treatment of inviscid jet or duct flow. *AIAA J.* 3 (1965), 212-215. (Author's summary) 30 #3651

Thompson, R. L.

Open mappings and the fundamental theorem of algebra. *Math. Mag.* 43 (1970), 39-40. (M. L. Marx) 40 #7428

Thompson, Roy W.

(with McWilliams, G. V.) Methods of convergence improvement for some improper integrals. *Comm. ACM* 11 (1968), 499-502. (Authors' summary) 39 #2327

(with Gray, H. L.; McWilliams, G. V.) A new approximation for the chi-square integral. *Math. Comp.* 23 (1969), 85-89. 38 #6746

Thompson, Richard B.

On the semicomplexes of F. Browder. *Bull. Amer. Math. Soc.* 73 (1967), 531-536. (T. R. Brahana) 35 #4902

A unified approach to local and global fixed point indices. *Advances in Math* 3, 1-71 (1969). (S. S. Cairns) 40 #891

Retracts of semicomplexes. *Illinois J. Math.* 15 (1971), 258-272. (T. R. Brahana) 43 #4028

Thompson, Robert C.

Unimodular group matrices with rational integers as elements. *Pacific J. Math.* 14 (1964), 719-726. (Morris Newman) 29 #1256

Generalizations of a well-known result in matrix theory. *Proc. Glasgow Math. Assoc.* 7, 29-31 (1965). (M. Marcus) 31 #3434

Principal submatrices of normal and Hermitian matrices. *Illinois J. Math.* 10 (1966), 296-308. (M. Marcus) 32 #7565

Matrices with zero trace. *Israel J. Math.* 4 (1966), 33-42. (John H. Hodges) 34 #2602

(with Marcus, Marvin) On a classical commutator result. *J. Math. Mech.* 16 (1966), 583-588. (O. Taussky-Todd) 34 #2601

Classes of definite group matrices. *Pacific J. Math.* 17 (1966), 175-190. (Morris Newman) 34 #1339

A note on matrix commutators. *Amer. Math. Monthly* 74 (1967), 276-278. (John H. Hodges) 35 #1612

Multiplicative matrix commutators commuting with both factors. *J. Math. Anal. Appl.* 18 (1967), 315-335. (I. Reiner) 34 #7540

On a class of matrix equations. *Pacific J. Math.* 20 (1967), 289-316. (G. E. Wall) 34 #5847

Commutators of matrices with prescribed determinant. *Canad. J. Math.* 20 (1968), 203-221. (John H. Hodges) 37 #322

(with Gaines, Fergus J.) Sets of nearly triangular matrices. *Duke Math. J.* 35 (1968), 441-453. (C. G. Cullen) 37 #4098

Principal submatrices. III. Linear inequalities. *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 7-22. (Marvin Marcus) 38 #5814

Principal submatrices. V. Some results concerning principal submatrices of arbitrary matrices. *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 115-125. (Marvin Marcus) 39 #5597

Principal submatrices. VII. Further results concerning matri with equal principal minors. *J. Res. Nat. Bur. Standards Sect. B* 72B (1968), 249-252. (Marvin Marcus) 39 #5598

On the matrices AB and BA. *Linear Algebra and Appl.* 1 (1968 *no.* 1, 43-58. (B. N. Moyls) 37 #6299

(with McEnteggert, P.) Principal submatrices. II. The upper and lower quadratic inequalities. *Linear Algebra and Appl.* 1 (1968), 211-243. (Marvin Marcus) 38 #5813

On the matrices A and $f(A)$. *Canad. Math. Bull.* 12 (1969), 581-587. (M. F. Smiley) 40 #1407

On Pearl's paper "A decomposition theorem for matrices". *Canad. Math. Bull.* 12 (1969), 805-808. (H.-O. Kreiss) 42 #1841

Principal submatrices. IV. On the independence of the eigenvalues of different principal submatrices. *Linear Algebra and Appl.* 2 (1969), 355-374. (Marvin Marcus) 39 #6907

Principal submatrices. VI. Cases of equality in certain line inequalities. *Linear Algebra and Appl.* 2 (1969), 375-379. (Marv. Marcus) 39 #6908

(with Freede, Linda J.) Eigenvalues of partitioned hermitia matrices. *Bull. Austral. Math. Soc.* 3 (1970), 23-37. (A. R. Amir-Moéz) 42 #286

The L property for singular values. *Linear Algebra and Appl* 3 (1970), 179-183. (M. Lotkin) 41 #6871

Some matrix factorization theorems. I, II. *Pacific J. Math.* 33 (1970), 763-810; *ibid.* 33 (1970), 811-822. (C. F. Moppert) 4 #8445

On the real and absolute singular values of a matrix product *Linear Algebra and Appl.* 4 (1971), 243-254. (A. R. Amir-Moéz) 4 #7444

(with Freede, Linda J.) On the eigenvalues of sums of Hermitian matrices. *Linear Algebra and Appl.* 4 (1971), 369-376. (A. R. Amir-Moéz) 44 #5330

Thompson, Robert J.

(with Slater, Morton L.) A permanent inequality for positive functions on the unit square. *Pacific J. Math.* 14 (1964), 1069-1078. (O. Wyler) 29 #5846

On some functional differential equations: Existence of solutions and difference approximations. *SIAM J. Numer. Anal.* 5 (1968), 475-487. (C. S. Duris) 39 #1140

(with Shampine, L. F.) Difference methods for nonlinear firs order hyperbolic systems of equations. *Math. Comp.* 24 (1970), 45-56. (I. O. Bohachevsky) 41 #7874

Thompson, Rory

(with Bell, C. B.; Moser, J. M.) Goodness criteria for two-sample distribution-free tests. *Ann. Math. Statist.* 37 (1966), 133-142. (D. G. Chapman) 32 #1829

Bias of the one-sample Cramér-von Mises test. *J. Amer. Statist. Assoc.* 61 (1966), 246-247. 33 #819

Evaluation of $I_n(b) = 2\pi^{-1}\int_0^\infty(\sin x/x)^n \cos (bx)dx$ and of similar integrals. *Math. Comp.* 20 (1966), 330-332. 33 #859

(with Govindarajulu, Z.; Doksum, K. A.) Distribution and power of the absolute normal scores test. *J. Amer. Statist. Assoc* 62 (1967), 966-975. (J. Klotz) 36 #2285

(with Doksum, Kjell) Power bounds and asymptotic minimax results for one-sample rank tests. *Ann. Math. Statist.* 42 (1971), 12-34. (G. E. Noether) 43 #4194

Thompson, Russell G.

(with Brock, William A.) Convex solutions of implicit relations. *Math. Mag.* 39 (1966), 208-211. (R. S. Booth) 34 #4427

(with George, Melvin D.; Brown, Perry L.; Proctor, Michael S. Optimal production, investment, and output price controls for a monopoly firm of the Evans' type. *Econometrica* 39 (1971), 119-129. (Authors' summary) 43 #1601

Thompson, S. R., III

(with Okubo, Tanjiro) On the affine tangent bundle with multiple and single vector fields as fibre. *Mem. Defense Acad.* 5, *no.* 1, 19-28 (1965). (A. Kawaguchi) 32 #412

Thompson, W. A., Jr.

(with Willke, T. A.) On an extreme rank sum test for outlier *Biometrika* 50 (1963), 375-383. (D. Teichroew) 30 #3548

(with Remage, Russell, Jr.) Maximum-likelihood paired comparison rankings. *Biometrika* 53 (1966), 143-149. (C. A. B. Smith 33 #5040

(with McDonald, B. J.) Rank sum multiple comparisons in one- and two-way classifications. *Biometrika* 54 (1967), 487-497. (G. E. Noether) 36 #4737

(with Singh, Jagbir) The use of limit theorems in paired comparison model building. *Psychometrika* 32 (1967), 255-264. (H. D. Brunk) 36 #1053

(with Singh, Jagbir) A treatment of ties in paired comparisons. *Ann. Math. Statist.* 39 (1968), 2002-2015. (C. H. Kraft) 38 #6722

(with Hanumara, R. Choudary) Percentage points of the extrem roots of a Wishart matrix. *Biometrika* 55 (1968), 505-512. (Autho summary) 38 #5337

* Applied probability. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London,* 1969. xiii + 175 *pp.* (L. Takacs) 41 #6338

Thompson, W. B.

Kinetic theory of plasma. *Advanced Plasma Theory (Proc. Internat. School of Physics "Enrico Fermi", Course XXV, Varenna, pp. 1-53. Academic Press, New York,* 1964. (L. Sirovich) 32 #8934

Thompson, W. E.

(with Springer, M. D.) Bayesian confidence limits for the product of *N* binomial parameters. *Biometrika* 53 (1966), 611-613. (Authors' summary) 35 #2407

(with Springer, M. D.) The distribution of products of independent random variables. *SIAM J. Appl. Math.* 14 (1966), 511-526. (L. A. Aroian) 34 #3623

(with Springer, M. D.) Bayesian confidence limits for reliability of redundant systems when tests are terminated at first failure. *Technometrics* 10 (1968), 29-36. (W. Uhlmann) 36 #6089

(with Springer, M. D.) The distribution of products of beta, gamma and Gaussian random variables. *SIAM J. Appl. Math.* 18 (1970), 721-737. (S. M. Samuels) 41 #9324

Thompson, William M.

(with Vacroux, André G.) Application of Pontryagin's time lag stability criterion to force-reflecting servomechanisms. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp. 432-443. Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #312

Thompson, William O.

(with Myers, Raymond H.) Response surface designs for experiments with mixtures. *Technometrics* 10 (1968), 739-756. (H. L. Harter) 38 #5354

Thomsen, Ib

* Testing hypotheses in unbalanced variance components models for complete two-way layouts. Statistical Research Report, 1969, No. 5. *University of Oslo, Oslo,* 1969. i + 13 *pp.* (P. R. Krishnaiah) 40 #2192

Thomson, B. S.

Spaces of conditionally integrable functions. *J. London Math. Soc.* (2) 2 (1970), 358-360. (B. Yood) 41 #4223

Constructive definitions for non-absolutely convergent integrals. *Proc. London Math. Soc.* (3) 20 (1970), 699-716. (W. D. L. Appling) 42 #3248

Construction of measures and integrals. *Trans. Amer. Math. Soc.* 160 (1971), 287-296. (P. V. Reichelderfer) 43 #6385

Thomson, Glenys J.

Selectively disadvantageous mutants. (French summary) *Biometrics* 26 (1970), 229-241. 42 #3967

Thomson, James

Proof of the law of infinite conjunction using the perfect disjunctive normal form. *J. Symbolic Logic* 32 (1967), 196-197. (Arnold Oberschelp) 35 #5289

Thomson, L. M. Milne. See Milne-Thomson, L. M.

Thomson, P. J.

(with Hannan, E. J.) Spectral inference over narrow bands. *J. Appl. Probability* 8 (1971), 157-169. (D. R. Brillinger) 43 #5674

Thomson, Richard E.

On the generation of Kelvin-type waves by atmospheric disturbances. *J. Fluid Mech.* 42 (1970), 657-670. (P. Caloi) 43 #2910

Thomson, William

* (with Tait, Peter Guthrie) Principles of mechanics and dynamics. Part I. *Dover Publications, Inc., New York,* 1962. xvii + 508 *pp.* (Editors) 32 #1935

* (with Tait, Peter Guthrie) Principles of mechanics and dynamics. Part II. *Dover Publications, Inc., New York,* 1962. xxv + 527 *pp.* (Editors) 33 #1995

Thöni, Werner

* Äquivariante Homotopie und Cohomologie. Von der Eidgenössischen Technischen Hochschule in Zürich zur Erlangung der Würde eines Doktors der Mathematik genehmigte Promotionsarbeit. *Juris-Verlag, Zürich,* 1964. (A. Dold) 33 #3297

Thorelli, Lars-Erik

Finite synchronous automata. *Nordisk Tidskr. Informations-Behandling* 5 (1965), 175-202. (From the author's summary) 32 #2285

Thoren, Victor E.

Tycho Brahe's discovery of the variation. *Centaurus* 12 (1967/68), 151-166. (J. Vernet) 40 #4061

Thorin, Olof

An identity in the collective risk theory with some applications. *Skand. Aktuarietidskr.* 1968, 26-44. (C. Pearce) 40 #3631

Some remarks on the ruin problem in case the epochs of claims form a renewal process. *Skand. Aktuarietidskr.* 1970, 29-50. (J. A. Beckman) 44 #7661

Thornber, Hodson

Finite sample Monte Carlo studies: An autoregressive illustration. *J. Amer. Statist. Assoc.* 62 (1967), 801-818. (L. Törnqvist) 36 #6095

Thornby, J. I.

(with Rao, P. V.) A robust point estimator in a generalized regression model. *Ann. Math. Statist.* 40 (1969), 1784-1790. (E. H. Lehman, Jr.) 40 #8193

Thorne, B. J.

A - P congruences on Baer semigroups. *Pacific J. Math.* 28 (1969), 681-698. (J. Kist) 39 #2900

Thorne, Kip S.

Energy of infinitely long, cylindrically symmetric systems in general relativity. *Phys. Rev.* (2) 138 (1965), B251-B266. (C. W. Misner) 33 #1131

(with Ipser, James R.) Relativistic, spherically symmetric star clusters. I. Stability theory for radial perturbations. *Astrophys. J.* 154 (1968), 251-270. (L. F. Oster) 44 #5073

(with Will, Clifford M.) Theoretical frameworks for testing relativistic gravity. I. Foundations. *Astrophys. J.* 163 (1971), 595-610. (P. Sengupta) 44 #1390

(with Dykla, John J.) Black holes in the Dicke-Brans-Jordan theory of gravity. *Astrophys. J.* 166 (1971), L35-L38. (C. Gilbert) 44 #5086

Thornton, Melvin C.

Singularly fibered manifolds. *Illinois J. Math.* 11 (1967), 189-201. (S.-T. Hu) 35 #1031

On closing manifolds fibered over surfaces. *Proc. Amer. Math. Soc.* 19 (1968), 890-894. (H. W. Lambert) 37 #3573

Thoro, Dmitri

Two Fibonacci conjectures. *Fibonacci Quart.* 3 (1965), 184-186. (R. Finkelstein) 32 #5585

Thorp, B. L. D.

The Riesz representation theorem in partially ordered vector spaces. *Arch. Math. (Basel)* 17 (1966), 257-261. (A. Revuz) 33 #6365

Representation theorems for a class of vector-valued linear operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 197-204. (D. H. Tucker) 35 #3030

(with Harris, D. J.) Uniform convergence and rearrangement. *Amer. Math. Monthly* 76 (1969), 801-802. (D. C. Russell) 40 #7672

Sequential-evaluation convergence. *J. London Math. Soc.* 44 (1969), 201-209. (A. Pełczyński) 38 #4970

Thorp, Edward O.

(with Walden, William E.) A partial analysis of Go. *Comput. J.* 7 (1964), 203-207. (M. Maschler) 33 #2424

Finite dimensional normed spaces. *J. London Math. Soc.* 39 (1964), 211-214. (R. R. Phelps) 29 #1523

Some Banach spaces congruent to their conjugates. *J. London Math. Soc.* 39 (1964), 703-705. (R. A. Hirschfeld) 29 #5093

(with Whitley, Robert J.) Operator representation theorems. *Illinois J. Math.* 9 (1965) 595-601. (R. A. Hirschfeld) 31 #6126

The range as range space for compact operators. II. *J. Reine Angew. Math.* 217 (1965), 69-78. (A. E. Taylor) 30 #5168

(with Whitley, Robert) The strong maximum modulus theorem for analytic functions into a Banach space. *Proc. Amer. Math. Soc.* 18 (1967), 640-646. (A. Brown) 35 #5643

Solution of a poker variant. *Information Sci.* 2 (1970), 299-301. (W. F. Lucas) 42 #8925

(with Whitley, Robert) Poincaré's conjecture and the distribution of digits in tables. *Compositio Math.* 23 (1971), 233-250. (H. G. Meijer) 44 #5281

(with Whitley, Robert) Partially bounded sets of infinite width. *J. Reine Angew. Math.* 248 (1971), 117-122. (D. G. Larman) 43 #5291

Thorp, James S.

(with Lewine, R. N.) Exponential approximation with piecewise linear error criteria. *J. Franklin Inst.* 286 (1968), 308-320. (D. A. Sprecher) 38 #3668

(with Smithgall, David H.) A second-variation algorithm for a class of minimum fuel problems. *IEEE Trans. Automatic Control* AC-15 (1970), 354-358. (Authors' summary) 43 #1711

Thorp, Robert

* (See Newton, Isaac, 44 #22)

Thorpe, Brian

(with Kuttner, B.) On the strong Nörlund summability of a Cauchy product series. *Math. Z.* 111 (1969), 69-86. (J. P. King) 40 #3120

An inclusion theorem for Bohr-Hardy summability factors. *Canad. J. Math.* 23 (1971), 653-658. (D. C. Russell) 43 #7812

Thorpe, John A.

Sectional curvatures and characteristic classes. *Ann. of Math.* (2) 80 (1964), 429-443. (R. L. Bishop) 30 #546

Parallelizability and flat manifolds. *Proc. Amer. Math. Soc.* 16 (1965), 138-142. (J. A. Wolf) 30 #1473

On the curvatures of Riemannian manifolds. *Illinois J. Math.* 10 (1966), 412-417. (W. B. Houston, Jr.) 33 #4868

* (with Singer, I. M.) Lecture notes on elementary topology and geometry. *Scott, Foresman and Co., Glenview, Ill.,* 1967. v + 214 *pp.* (J. W. Smith) 35 #4834

(with Singer, I. M.) The curvature of 4-dimensional Einstein spaces. *Global Analysis (Papers in Honor of K. Kodaira), pp.* 355-365. *Univ. Tokyo Press, Tokyo,* 1969. (K. Nomizu) 41 #959

Some remarks on the Gauss-Bonnet integral. *J. Math. Mech.* 18 (1969), 779-786. (N. J. Hicks) 41 #963

Curvature and the Petrov canonical forms. *J. Mathematical Phys.* 10 (1969), 1-7. (W. Benz) 39 #2103

(with Heymann, Michael) Transfer equivalence of linear dynamical systems. *SIAM J. Control* 8 (1970), 19-40. (E. Ar) 41 #9601

The zeroes of nonnegative curvature operators. *J. Differential Geometry* 5 (1971), 113-125. (Yung-Chow Wong) 44 #7469

Thorson, Walter R.

Theory of slow atomic collisions. I. H_2 +. *J. Chem. Phys.* 42 (1965), 3878-3891. (M. H. Mittleman) 32 #8877

Thorup, Anders

(with Jessen, Børge; Karpf, Jørgen) Some functional equations in groups and rings. *Math. Scand.* 22 (1968), 257-265 (1969). (Chr. U. Jensen) 44 #1963

Thosar, Yeshwant V.

Simple summation formulae involving associated Legendre functions. *J. Indian Math. Soc. (N.S.)* 28 (1964), 33-41. (F. W. J. Olver) 30 #5000

On certain expansions involving Legendre's *Q*-functions. *J. Indian Math. Soc. (N.S.)* 30 (1966), 213-219 (1967). (K. N. Srivastava) 37 #6507

Thouless, David J.

Integration of the Schrödinger equation by a Monte Carlo method. *Proc. Phys. Soc.* 86 (1965), 905-913. (Author's summary) 32 #1879

Thouvenot, J. P.

Difféomorphismes d'Anosov. *Colloque de Topologie Différentielle (Mont-Aigoual, 1969), pp.* 69-78. *Université de Montpellier, Montpellier,* 1969. (T. tom Dieck) 40 #8076

Thouvenot, Stéphane

(with Chatelet, F.) Au sujet des congruences de degré supérieur à deux. *Enseignement Math.* (2) 13 (1967), 89-98. (L. Carlitz) 36 #5066

Thrall, Robert M.

(with Lucas, W. F.) *n*-person games in partition function form. *Naval Res. Logist. Quart.* 10 (1963), 281-298. (R. J. Aumann) 29 #6948

(with Thrall, R. M.) Some results concerning the kernel of a game. *SIAM Rev.* 7 (1965), 359-375. (R. E. Stearns) 34 #8827

Thron, Wolfgang J.

Convergence of sequences of linear fractional transformations and of continued fractions. *J. Indian Math. Soc. (N.S.)* 27 (1963), 103-127 (1964). (H. S. Wall) 32 #1331

Some results and problems in the analytic theory of continued fractions. *Math. Student* 32 (1964), 61-73. (W. T. Scott) 32 #1332

On the convergence of the even part of certain continued fractions. *Math. Z.* 85 (1964), 268-273. (W. T. Scott) 29 #6215

(with Hillam, K. L.) A general convergence criterion for continued fractions $K(a_n/b_n)$. *Proc. Amer. Math. Soc.* 16 (1965), 1256-1262. (W. T. Scott) 33 #1613

(with Drake, David) On the representations of an abstract lattice as the family of closed sets of a topological space. *Trans. Amer. Math. Soc.* 120 (1965), 57-71. (A. C. Choudhury) 32 #6390

* Topological structures. *Holt, Rinehart and Winston, New York -Toronto, Ont.-London,* 1966. x + 240 *pp.* (J. Dugundji) 34 #778

(with Jones, William B.) Further properties of *T*-fractions. *Math. Ann.* 166 (1966), 106-118. (W. T. Scott) 34 #319

(with Callas, N. P.) Singularities of meromorphic functions represented by regular *C*-fractions. *Norske Vid. Selsk. Skr. (Trondheim)* 1967, *no.* 6, 11 *pp.* (A. Magnus) 36 #6595

(with Sweezy, W. B.) Estimates of the speed of convergence of certain continued fractions. *SIAM J. Numer. Anal.* 4 (1967), 254-270. (G. Blanch) 35 #7563

(with Jones, William B.) Convergence of continued fractions. *Canad. J. Math.* 20 (1968), 1037-1055. (E. P. Merkes) 37 #6446

(with Reed, Ellen E.) Uniform structures on the lattices of open sets. *Math. Nachr.* 36 (1968), 237-253. (W. J. Pervin) 37 #4778

(with Stevenson, F. W.) Results on ω_μ-metric spaces. *Fund. Math.* 65 (1969), 317-324. (V. S. Krishnan) 40 #866

(with Reed, Ellen E.) *m*-bounded uniformities between two given uniformities. *Trans. Amer. Math. Soc.* 141 (1969), 71-77. (D. C. Kent) 39 #4805

(with Dooher, Terrence E.) Proximities compatible with a given topology. *Dissertationes Math. Rozprawy Mat.* 71 (1970), 41 *pp.* (W. J. Pervin) 43 #2660

(with Jones, William B.) Twin-convergence regions for con ued fractions $K(a_n/1)$. *Trans. Amer. Math. Soc.* 150 (1970), 93- (E. Frank) 41 #8640

(with Zimmerman, Susan J.) A characterization of order topologies by means of minimal T_0-topologies. *Proc. Amer. Math. Soc.* 27 (1971), 161-167. (J. Diestel) 44 #997

Throop, Gerald J.

(with Bearman, Richard J.) Numerical solutions of the Perc -Yevick equation for the hard-sphere potential. *J. Chem. Phys.* 42 (1965), 2408-2411. (Authors' summary) 32 #3756

(with Bearman, Richard J.) Radial distribution functions for mixtures of hard spheres. *J. Chem. Phys.* 42 (1965), 2838-28 (Authors' summary) 32 #2149

Throsby, P. W.

A finite element approach to surface definition. *Comput. J* 12 (1969), 385-387. (D. C. Handscomb) 40 #6734

Thurn, Zygmunt.

Method of approximate solution of initial-boundary value problems of non-stationary heat conduction. (Polish. Russian an English summaries) *Mech. Teoret. Stos.* 2 (1964), *no.* 2, 59-82. (K. Frankowski) 34 #3886

A method for an approximate calculation of nonlinear proble of heat transfer. (Polish. Russian and English summaries) *Mech Teoret. Stos.* 3 (1965), *no.* 1, 29-36. (T. O. Bohachevsky) 33 #5232

A method for approximate calculation of two-dimensional diffusion problems. (Polish. Russian and English summaries) *Rozprawy Inż.* 13 (1965), 235-246. (Author's summary) 32 #1917

Thue Poulsen, Ebbe. See Poulsen, Ebbe Thue.

Thulasiraman, K.

(with Reddy, P. Subbarami; Murti, V. G. K.) Realization of modified cut-set matrix and applications. *IEEE Trans. Circuit Theory* CT-17 (1970), 475-486. (P. R. Bryant) 43 #4566

Thullen, Peter

Bemerkungen über analytische Flächen im Raume von *n* komplexe Veränderlichen im Zusammenhang mit dem zweiten Cousinschen Proble *Math. Ann.* 183 (1969), 1-5. (J. Kajiwara) 40 #2900

* (with Behnke, H.) Theorie der Funktionen mehrerer komplexen Veränderlichen. Ergebnisse der Mathematik und ihrer Grenzgebiete Band 51. Zweite, erweiterte Auflage. Herausgegeben von R. Remmer Unter Mitarbeit von W. Barth, O. Forster, H. Holmann, W. Kaup, H. Kerner, H.-J. Reiffen, G. Scheja und K. Spallek. *Springer -Verlag, Berlin-New York,* 1970. xvi + 225 *pp.* (Gerd Fischer) 42 #6274

Thuraisamy, V.

Approximate solutions for mixed boundary value problems by finite-difference methods. *Math. Comp.* 23 (1969), 373-386. (Author's summary) 39 #3721

Monotone type discrete analogue for the mixed boundary value problem. *Math. Comp.* 23 (1969), 387-394. (Author's summary) 39 #3722

Thurber, James K.

An asymptotic method for determining the lift distribution o a swept-back wing of finite span. *Comm. Pure Appl. Math.* 18 (196 733-756. (M. Honda) 32 #681; erratum, 33, p. 1600

(with Sirovich, Lawrence) Propagation of forced sound waves in rarefied gasdynamics. *J. Acoust. Soc. Amer.* 37 (1965), 329-339. (R. Balescu) 30 #5754

(with Sirovich, Lawrence) On the propagation of free sound waves in rarefied gas dynamics. *Rarefied Gas Dynamics, Vol. I (Proc. Fourth Internat. Sympos., Univ. Toronto,* 1964*), pp.* 21-47. *Academic Press, New York,* 1966. (P. L. Bhatnagar) 34 #3863

(with Sirovich, Lawrence) On some mathematical aspects of kinetic model equations. *Quart. Appl. Math.* 25 (1967), 175-186. (J. A. McLennan) 36 #2372

(with Dorning, J. J.; Nicolaenko, B.) An integral identity due to Ramanujan which occurs in neutron transport theory. *J. Math. Mech.* 19 (1969/70), 429-438. (S. D. Bajpai) 40 #7507

(with Sirovich, Lawrence) Wave propagation and other spectra problems in kinetic theory. *J. Mathematical Phys.* 10 (1969), 239-249. (Authors' summary) 41 #4984

Thurnau, D. H.

* (with Johnson, R. E.; Ham, R. J.) ALGOL programming: A basi approach. *Big Mountain Press, Denver, Colo.,* 1964. 158 *pp.* (B. A. Galler) 29 #3008

Thurnauer, Peter

(with Ball, James S.) Effect of unstable particle productio on scattering amplitudes. *Phys. Rev.* (2) 136 (1964), B529-B536. (John G. Taylor) 32 #779

Thurston, G. A.

Newton's method applied to problems in nonlinear mechanics. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 383-388. (Author's summary) 32 #632

Thurston, H. A.

* The number-system. *Dover Publications, Inc., New York,* 1967. viii + 134 *pp.* (Editors) 38 #1

Thurston, R. N.

Wave propagation in fluids and normal solids. *Physical acoustics, Vol. I--Part A, pp.* 1-110. *Academic Press, New York,* 1964. (M. E. Gurtin) 29 #5460

Effective elastic coefficients for wave propagation in crystals under stress. *J. Acoust. Soc. Amer.* 37 (1965), 348-356. (J. Miklowitz) 31 #1827

Thwaites, G. N.

On finite groups having a maximal subgroup isomorphic to $A_5 \times Z_3$. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 417-420. (H. Nagao) 43 #4928

Thyagaraja, A.

On a class of transcendental functions. *J. Mathematical and Physical Sci.* 3 (1969), 350-360. (T. M. Apostol) 41 #3407

Thyregod, P.

(with Hald, A.) The composite operating characteristic under normal and tightened sampling inspection by attributes. (With discusiion. French summary) *Bull. Inst. Internat. Statist.* 41 (1965), 517-529. 35 #7535

(with Hald, A.) Bayesian single sampling plans based on linear costs and the Poisson distribution. *Mat.-Fys. Skr. Danske Vid. Selsk.* 3, *no.* 7, 100 *pp.* (I. Guttman) 44 #6106

Thyrion, P.

Les lois exponentielles composées. *Assoc. Roy. Actuair. Belges Bull. No.* 62 (1964), 35-44. (H. Teicher) 33 #4970

Thyssen, M.

Une condition d'isométrie pour un opérateur lineaire. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 141-142. (R. G. Douglas) 29 #3890

Ti, Yen. See Yen, Ti.

Tiablikov, S. V. See Tjablikov, S. V.

Tiago de Oliveira, J.

La représentation des distributions extrémales bivariées. (English summary) *Bull. Inst. Internat. Statist.* 39 (1962), *livraison* 2, 477-480. (Author's summary) 29 #683

Decision results for the parameters of the extreme value (Gumbel) distribution based on the mean and the standard deviation. *Trabajos Estadíst* 14 (1963), 61-81. (M. Dwass) 31 #2789

The checking of assumptions in statistical inference. I. Preliminary analysis. *Univ. Lisboa Revista Fac. Ci. A* (2) 10 (1963), 47-73. (Judah Rosenblatt) 30 #3541

L'independance dans les distributions extrêmales bivariées. *Publ. Inst. Statist. Univ. Paris* 13 (1964), 137-141. (J. Sacks) 30 #2534

Some elementary tests for mextures of discrete distributions. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.,* 1963*), pp.* 379-384. *Statistical Publishing Society, Calcutta,* 1965. 35 #2426

Optimality of grade correlation. *An. Fac. Ci. Univ. Porto* 48 (1965), 41-50. (P. J. Bickel) 37 #5991

Statistical decision for bivariate extremes. *Portugal. Math.* 24 (1965), 145-154; *errata, ibid.* 25 (1966), 211; 38 #816. 35 #2437

Quasi-linearly invariant prediction. *Ann. Math. Statist.* 37 (1966), 1684-1687. (R. H. Berk) 34 #912

Errata to: "Statistical decision for bivariate extremes. *Portugal. Math.* 25 (1966), 211. (Editors) 38 #816

Tiago Mexia, João. See Mexia, João Tiago.

Tian Cheng-jun. See T'ien Ch'eng-chun.

Tian Wan-zeng. See T'ien Fan-tseng.

Tiao, George C.

(with Box, G. E. P.) A Bayesian approach to the importance of assumptions applied to the comparison of variances. *Biometrika* 51 (1964), 153-167. (J. W. Pratt) 37 #1019

(with Box, G. E. P.) A note on criterion robustness and inference robustness. *Biometrika* 51 (1964), 169-173. (R. V. Hogg) 35 #1113

(with Zellner, Arnold) Bayes's theorem and the use of prior knowledge in regression analysis. *Biometrika* 51 (1964), 219-230. (C. V. Lindley) 35 #2427

(with Guttman, Irwin) Addendum to "Some useful matrix lemmas in statistical estimation theory". *Canad. Math. Bull.* 7 (1964), 615. (Editors) 30 #655

(with Zellner, Arnold) Bayesian analysis of the regression model with autocorrelated errors. *J. Amer. Statist. Assoc.* 59 (1964), 763-778. (I. R. Savage) 29 #4159

(with Zellner, Arnold) On the Bayesian estimation of multivariate regression. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 277-285. (S. W. Nash) 31 #1743

(with Box, G. E. P.) Multiparameter problems from a Bayesian point of view. *Ann. Math. Statist.* 36 (1965), 1468-1482. (D. V. Lindley) 31 #5268

(with Tan, W. Y.) Bayesian analysis of random-effect models in the analysis of variance. I. Posterior distribution of variance -components. *Biometrika* 52 (1965), 37-53. (D. A. Sprott) 34 #8574

(with Box, G. E. P.) A change in level of a non-stationary time series. *Biometrika* 52 (1965), 181-192. (J. L. Lumley) 34 #8597

(with Guttman, Irwin) The inverted Dirichlet distribution with applications. *J. Amer. Statist. Assoc.* 60 (1965), 793-805. (Authors' summary) 32 #3177

Bayesian comparison of means of a mixed model with application to regression analysis. *Biometrika* 53 (1966), 11-25. (D. A. Sprott) 33 #5053

(with Tan, W. Y.) Bayesian analysis of random-effect models in the analysis of variance. II. Effect of autocorrelated errors. *Biometrika* 53 (1966), 477-495. (D. A. Sprott) 35 #5069

(with Box, G. E. P.) Bayesian analysis of a three-component hierarchical design model. *Biometrika* 54 (1967), 109-125. (D. A. Sprott) 35 #7485

(with Lochner, Robert H.) A note on tables for the comparison of the spread of two normal distributions. *Biometrika* 54 (1967), 683-684. (Authors' summary) 36 #4669

(with Guttman, Irwin) Analysis of outliers with adjusted residuals. *Technometrics* 9 (1967), 541-559. (D. M. Sandelius) 37 #2382

(with Draper, N. R.) Bayesian analysis of linear models with two random components with special reference to the balanced incomplete block design. *Biometrika* 55 (1968), 101-117. (J. W. Pratt) 37 #2369

(with Box, G. E. P.) A Bayesian approach to some outlier problems. *Biometrika* 55 (1968), 119-129. (D. V. Lindley) 37 #1020

(with Box, G. E. P.) Bayesian estimation of means for the random effect model. *J. Amer. Statist. Assoc.* 63 (1968), 174-181. (W. A. Ericson) 36 #7270

(with Fienberg, S.) Bayesian estimation of latent roots and vectors with special reference to the bivariate normal distribution. *Biometrika* 56 (1969), 97-108. (Authors' summary) 39 #7734

(with Ali, M. M.) Analysis of correlated random effects: Linear model with two random components. *Biometrika* 58 (1971), 37-51. (J. N. K. Rao) 43 #4191

Tiberio, Umberto

Sottogruppi duali standard nel reticolo dei sottogruppi di un gruppo localmente finito e numerabile. *Matematiche (Catania)* 24 (1969), 416-428. (G. Pic) 43 #362

Tiberio Bianchini, Rosa Maria. See Bianchini, Rosa Maria.

Tiberiu, Weszely

On some properties of the plane in hyperbolic space. (Romanian) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 467-471. (D. J. Struik) 32 #8241

Tibiletti, Cesarina. See Marchionna Tibiletti, Cesarina.

Tichomirow, W. M. See Tihomirov, V. M.

Tichonoff, A. N. See Tihonov, A. N.

Tichonov, A. N. See Tihonov, A. N.

Tichý, Pavel

A remark on the concept of problem and solvability. (Czech. English summary) *Kybernetika (Prague)* 3 (1967), 105-109. (Author's summary) 35 #6550

Tick, Leo Joseph

(with Shaman, Paul) Sampling rates and appearance of stationary Gaussian processes. *Technometrics* 8 (1966), 91-106. (Authors' summary) 33 #1900

Tidman, Derek A.

(with Guernsey, R. L.; Montgomery, David) "Test particle" problem for an equilibrium plasma. *Phys. Fluids* 7 (1964), 1089-1091. (H. Weitzner) 29 #4554

(with Stainer, H. M.) Frequency and wavenumber shifts for nonlinear waves in a "hot" plasma. *Phys. Fluids* 8 (1965), 345-357. (Authors' summary) 32 #3448

Tidmore, F. E.

Extremal structure of star-shaped sets. *Pacific J. Math.* 29 (1969), 461-465. (G. C. Shephard) 39 #4633

Tidwell, Paul W.

(with Box, G. E. P.) Transformation of the independent variables. *Technometrics* 4 (1962), 531-550. (Authors' summary) 32 #1786

van Tiel, Jan

Espaces localement *K*-convexes. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 249-258. (A. F. Monna) 31 #3841a

Espaces localement *K*-convexes. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 259-272. (A. F. Monna) 31 #3841b

Espaces localement *K*-convexes. III. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 273-289. (A. F. Monna) 32 #4523

Une note sur les applications complètement continues. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 772-776. (D. G. Bourgin) 33 #3112

Ensembles pseudo-polaires dans les espaces localement *K*-convexes. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 369-373. (A. F. Monna) 33 #6357

(with van der Put, M.) Espaces nucléaires non archimédiens. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 556-561. (Robert L. Ellis) 37 #4550

Spazi lineari topologici su un corpo a valutazione non archimedea. *Ricerche Mat.* 19 (1970), 111-130. (C. F. Moppert) 43 #5283

Tiemblo, A.

(with Esteve, A.) Vector invariants of SU_3/Z. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 880-885. (S. N. Biswas) 33 #3682

Tiemeier, Udo

Unverzweigte galoissche *p*-Erweiterungen algebraischer Funktionenkörper mit endlichem Konstantenkörper. *Arch. Math. (Basel)* 20 (1969), 590-596. (H. F. Mattson, Jr.) 41 #1691

Tien, C. L.

(with Chen, Yung Ming) Penetration of temperature waves in a random medium. *J. Math. and Phys.* 46 (1967), 188-194. (H. P. McKean, Jr.) 35 #3968

Tienari, Juha

Deficiency indices of linear mapping. *Ann. Acad. Sci. Fenn. Ser. A I No.* 430 (1968), 31 *pp.* (E. R. Deal) 38 #5038

Tienari, Martti

Fortsetzung einer quasikonformen Abbildung über einen Jordanbogen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 321 (1962), 32 *pp.* (J. A. Kelingos) 29 #242

The computer: A new research tool. (Finnish) *Arkhimedes* 1964, *no.* 2, 16-22. (Editors) 30 #5519

Über die Lösung von partiellen Differentialgleichungen erster Ordnung nach der Methode der sukzessiven Approximationen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 380 (1965), 9 *pp.* (B. A. Fleishman) 35 #529

A statistical model of roundoff error for varying length floating-point arithmetic. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 355-365. (R. W. Hamming) 42 #7108

T'ien Ch'eng-chun

A strong inverse coding theorem for a general discrete finite memory circuit. (Chinese) *Shuxue Jinzhan* 9 (1966), 274-280. 38 #3079

T'ien Fang-tseng

On the principle of invariant imbedding and the transport problem. (Chinese) *Shuxue Jinzhan* 6 (1963), 166-186. (Editors) 32 #3784

Tienstra, Menno

* A method for the calculation of orthogonal transformation matrices and its application to photogrammetry and other disciplines. (Dutch summary) Doctoral dissertation, Technische Hogeschool Delft. *Technische Hogeschool Delft, Delft,* 1969. 56 *pp.* (I. Păvăloiu) 43 #5709

T'ien Wan-tseng. See T'ien Fang-tseng.

Tiernan, James C.

An efficient search algorithm to find the elementary circuits of a graph. *Comm. ACM* 13 (1970), 722-726. (J. Morávek) 42 #7427

Tierney, Myles

The cohomology of the classifying space for complex *K*-theory mod *p*. *Illinois J. Math.* 12 (1968), 550-566. (J. F. Adams) 38 #2770

Some applications of a property of the functor *Ef*. *Pacific J. Math.* 24 (1968), 401-411. (R. E. Mosher) 36 #5948

(with Appelgate, H.) Categories with models. *Sem. on Triples and Categorical Homology Theory (ETH, Zürich, 1966/67), pp.* 156-244. *Springer, Berlin,* 1969. (M. L. Laplaza) 39 #4243

(with Vogel, Wolfgang) Simplicial derived functors. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash.,* 1968, *Vol. One), pp.* 167-180. *Springer, Berlin,* 1969. (M. Barr) 39 #4249

Autonomous categories with models. *Reports of the Midwest Category Seminar. III, pp.* 130-165. *Springer, Berlin,* 1969. (M. L. Laplaza) 40 #7333

* Categorical constructions in stable homotopy theory. A seminar given at the ETH, Zürich, in 1967. Lecture Notes in Mathematics, No. 87. *Springer-Verlag, Berlin-New York,* 1969. iii + 65 *pp.* (D. Burghelea) 39 #7598

(with Appelgate, H.) Model induced adjoint functors. *Cahiers Topologie Géom. Différentielle* 11 (1969), 1-21. (J. F. Kennison) 40 #7325

(with Vogel, Wolfgang) Simplicial resolutions and derived functors. *Math. Z.* 111 (1969), 1-14. (M. Barr) 40 #2733

(with Applegate, H.) Iterated cotriples. *Reports of the Midwest Category Seminar. IV, pp.* 56-99. *Lecture Notes in Mathematics, Vol.* 137. *Springer, Berlin,* 1970. (M. L. Laplaza) 42 #338

Tiersten, H. F.

Coupled magnetomechanical equations for magnetically saturated insulators. *J. Mathematical Phys.* 5 (1964), 1298-1318. (R. A. Toupin) 31 #5453

Variational principle for saturated magnetoelastic insulator *J. Mathematical Phys.* 6 (1965), 779-787. (F. C. Auluck) 31 #20

On the nonlinear equations of thermoelectroelasticity. (Fren German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 9 (1971), 587-604. (P. Germain) 44 #2401

Tietäväinen, Aimo

On the non-trivial solvability of some systems of equations in finite fields. *Ann. Univ. Turku. Ser. A I No.* 71 (1964), 5 *pp* (S. Chowla) 30 #79

On the non-trivial solvability of some equations and systems of equations in finite fields. *Ann. Acad. Sci. Fenn. Ser. A I N* 360 (1965), 38 *pp.* (L. Carlitz) 31 #2238

On systems of linear and quadratic equations in finite fiel *Ann. Acad. Sci. Fenn. Ser. A I No.* 382 (1965), 5 *pp.* (L. Carlitz 32 #4121

On systems of equations in finite fields. *Ann. Acad. Sci. Fenn. Ser. A I No.* 386 (1966), 10 *pp.* (S. Chowla) 35 #1573

On the trace of a polynomial over a finite field. *Ann. Univ Turku. Ser. A I No.* 87 (1966), 7 *pp.* (L. Carlitz) 33 #5611

On non-residues of a polynominal. *Ann. Univ. Turku. Ser. A I No.* 94 (1966), 6 *pp.* (S. L. Segal) 34 #7448

On the solvability of equations in incomplete finite fields. *Ann. Univ. Turku. Ser. A I No.* 102 (1967), 13 *pp.* (L. Carlitz) 35 #4198

On pairs of additive equations. *Ann. Univ. Turku. Ser. A I No.* 112 (1967), 7 *pp.* (D. J. Lewis) 37 #1333

On diagonal forms over finite fields. *Ann. Univ. Turku. Ser A I No.* 118 (1968), 10 *pp.* (H. B. Mann) 38 #3248

On the distribution of the residues of a polynomial. *Ann. Univ. Turku. Ser. A I No.* 120 (1968), 4 *pp.* (Editors) 38 #2081

On a homogeneous congruence of odd degree. *Ann. Univ. Turku. Ser. A I No.* 131 (1969), 6 *pp.* (S. Chowla) 44 #5276

On the nonexistence of perfect 4-Hamming-error-correcting codes. *Ann. Acad. Sci. Fenn. Ser. A I No.* 485 (1970), 6 *pp.* (P. Deussen) 43 #5988

(with Perko, Aarni) There are no unknown perfect binary cod *Ann. Univ. Turku. Ser. A I No.* 148 (1971), 6 *pp.* (P. E. O'Neil) 43 #8444

On a problem of Chowla and Shimura. *J. Number Theory* 3 (197 247-252. (J. H. H. Chalk) 44 #2702

Tietjen, G. L.

(with Zeigler, R. K.) Double sampling plans where the accep ance criterion is the variance. *Technometrics* 10 (1968), 99-106. (S. Moriguti) 36 #7282

Tietz, Horst

* Lineare Geometrie. *Verlag Aschendorff, Münster (Westf.),* 1967. x + 202 *pp.* (G. J. Schellekens) 35 #4236

* (with Doetsch, G.; Schäfke, F. W.) Mathematische Hilfsmitte des Ingenieurs. Teil I. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 139. *Springer-Verlag, Berlin-New York,* 1967. xv + 496 *pp.* (E. Kreyszig) 36 #4851

Tietz, Hubert

* Über das Summierungsverfahren von Le Roy. Von der Technische Hochschule Stuttgart zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart,* 1966. 91 *pp.* (A. Meir) 36 #4200

(with Meyer-König, Werner) On Tauberian conditions of type *o*. *Bull. Amer. Math. Soc.* 73 (1967), 926-927. (A. Meir) 35 #70

Umkehrsätze für das Summierungsverfahren von Le Roy. *Math. Z.* 103 (1968), 201-218. (L. Hoischen) 36 #4201

(with Meyer-König, W.) Über die Limitierungsumkehrsätze vom Typ *o*. *Studia Math.* 31 (1968), 205-216. (D. Gaier) 38 #3654

(with Meyer-König, Werner) Über Umkehrbedingungen in der Limitierungstheorie. *Arch. Math. (Brno)* 5 (1969), 177-186. (A. Meir) 44 #1970

Tauber-Konstanten für die Verfahren C_α, A_λ und *L*. I, II. *Proc Japan Acad.* 45 (1969), 473-477; *ibid.* 45 (1969), 478-483. (W. Biegert) 40 #6119

Tietz, Tadeusz

A new method for finding the phase shifts for the Schrödinger equation. *Acta Phys. Acad. Sci. Hungar.* 16 (1963), 289-292. (J. McKenna) 29 #6864

Über Eigenwerte und Eigenfunktionen in der statistischen Theorie des Atoms. *Ann. Physik* (7) 12 (1963/64), 373-376. (C. Froese) 29 #3206

Scattering amplitude of high energy Klein-Gordon and Dirac particles. *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 383-385. (I. Kay) 30 #2830

The elastic scattering of electrons by neutral atoms and the existence of negative ions. *Z. Naturforsch.* 19a (1964), 1413-1414 (F. R. Halpern) 30 #1751

A generalization of the Rasetti and Slater methods for determining the eigenvalues and eigenfunctions for a given atomic field. *Canad. J. Phys.* 43 (1965), 250-255. (H. W. Lewis) 31 #1999

Some non-Born phase shifts. *Nuovo Cimento* (10) 37 (1965), 1774-1776. (D. I. Olive) 33 #3622

Über Tauber-Konstanten und eine Frage von Jakimovski. (English summary) *Israel J. Math.* 8 (1970), 147-154. (G. Halász) 41 #8876

Über absolute Tauber-Bedingungen. *Math. Z.* 113 (1970), 136-144. (W. Biegert) 41 #7341

Tietze, Heinrich

* Famous problems of mathematics. Solved and unsolved mathematical problems from antiquity to modern times. Authorized translation from the second (1959) revised German edition. Edited by B. K. Hofstadter and H. Komm. *Graylock Press, New York,* 1965. xvi + 367 *pp.* (N. D. Kazarinoff) 31 #5787

Tietze, Jürgen

(with Havlíček, Karel) Zur Geometrie der endlichen Ebene der Ordnung $n = 4$. *Comment. Math. Univ. Carolinae* 11 (1970), 593-594. (J. W. P. Hirschfeld) 42 #8389

(with Havlíček, Karel) Zur Geometrie der endlichen Ebene der Ordnung $n = 4$. *Czechoslovak Math. J.* 21(96) (1971), 157-164. (J. W. P. Hirschfeld) 43 #3898

Tiffen, R.

(with Sharfuddin, S. M.) A mixed boundary value problem of two-dimensional elasticity theory. *Mathematika* 11 (1964), 151-154. (L. H. Donnell) 30 #1655

(with Lowe, P. G.) An exact theory of plane stress. *J. London Math. Soc.* 40 (1965), 72-86. (R. Hill) 30 #1656

(with Semple, H. M.) An investigation of the elastic strip and the annulus. *Mathematika* 12 (1965), 193-200. (W. D. Kroll) 32 #8575

Ţigan, Ştefan

Sur un problème d'affectation. *Mathematica (Cluj)* 11(34) (1969), 163-166. (A. G. Azpeitia) 42 #1518

Tihomirov, N. B.

The representation of certain summable functions by a singular integral at points of discontinuity of the second kind. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 118-122. (A. Lupaş) 37 #1860

Tihomirov, V. M.

The works of A. N. Kolmogorov on ε-entropy of function classes and superpositions of functions. (Russian) *Uspehi Mat. Nauk* 18 (1963), *no.* 5 (113), 55-92. (G. G. Lorentz) 29 #214

(with Mitjagin, B. S.) Asymptotic characteristics of compacta in linear spaces. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 299-308. *Izdat. "Nauka", Leningrad,* 1964. (G. Berman (RŽMat 1966 #6 B394)) 36 #3035

Some problems in approximation theory. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 774-777. (G. G. Lorentz) 30 #4104

A remark on n-dimensional diameters of sets in Banach spaces. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 1 (121), 227-230. (G. G. Lorentz) 30 #2278

A remark on L. A. Tumarkin's article "Diameters of infinite-dimensional compact sets". (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 73-74. (Z. Frolík) 34 #6721

(with Levin, A. L.) Approximations of analytic functions by rational functions. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 279-282. (K. Tarumoto) 36 #5361

(with Kuzovkin, A. I.) The number of computations for finding the minimum of a convex function. (Russian) *Ėkonom. i Mat. Metody* 3 (1967), 95-103. (I. Šelihova (RŽMat 1967 #9 B631)) 42 #8915

(with Babadžanov, S. B.) Diameters of a function class in an L_p-space ($p \geq 1$). (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 2, 24-30. (G. G. Lorentz) 35 #643

(with Solomjak, M. Z.) Geometric characteristics of the imbedding of the classes W_p^{α} in C. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 76-82. (J. Albrycht) 36 #1972

(with Ioffe, A. D.) Duality in problems of the calculus of variations. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 789-792. (R. Rishel) 38 #1571

(with Ioffe, A. D.) Extension of variational problems. (Russian) *Trudy Moskov. Mat. Obšč.* 18 (1968), 187-246. (Z. Diviš) 40 #7909

(See also Erohin, V. D., 37 #3011)

(with Ioffe, A. D.) Duality of convex functions, and extremal problems. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 6 (144), 51-116. (Z. Diviš) 44 #5797

(with Tumarkin, L. A.) Transverses of compacta. (Russian) *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 310-316. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (Roman Duda) 43 #1118

(with Ioffe, A. D.) The minimization of integral functionals. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 3, 61-70. (V. Komkov) 40 #6325

Best methods of approximation and interpolation of differentiable functions in the space $C[-1,1]$. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 290-304. (G. G. Lorentz) 41 #703

(with Moiseev, N. N.) Optimisation. *Mathematics Applied to Physics, pp.* 402-464. *Springer, New York,* 1970. (S. E. Dreyfus) 43 #1014

Tihomirov, V. R.

An invariant of matrix theory and a matrix presentation of the theory of fields. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. No.* 19 (1963), 69-72. (J. H. Halton) 32 #4140

A generalization of the Noether theorem for tensor fields of arbitrary rank, given in a Riemann space. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 271-274. (O. Gürel) 35 #4789

An invariant of a unitary transformation. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 275-277. (David Carlson) 35 #2912

Covariant form of the laws of conservation of vector flows in a Riemannian space. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 259-262. (Z. Janković) 37 #2511

A necessary and sufficient condition for the conversion of an arbitrary matrix into a Hermitian matrix as a result of a similarity transformation. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 30 (1966), 263-264. (D. Ž. Djoković) 37 #1388

Tihomirova, E. S.

(with Efremovič, V. A.) Equimorphisms of hyperbolic spaces. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1139-1144. (H. Busemann) 29 #6374

The spectrum of uniform homologies. *Dokl. Akad. Nauk SSSR* 191 (1970), 1235-1237 *(Russian); translated as Soviet Math. Dokl.* 11 (1970), 538-541. (D. Baladze (Zbl 208, 254)) 44 #1021

(with Efremovič, V. A.; Loginov, Ė. A.) Equimorphisms of Riemannian manifolds. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 25-28. (K. Bélteky) 44 #2171

Tihonenko, M. Ja.

(with Kerekeša, P. V.) A certain mixed problem of elasticity theory. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1313-1320. (J. P. Guiraud) 40 #6832

Tihonov, A. A.

The stability of motion under constantly acting disturbances. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 1, 95-101. (J. Auslander) 32 #5996

On the question of stability of motion on a finite time interval. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 19, 132-137. (Z. Nehari) 43 #6541

On the problem of stability of motion under constantly acting perturbations. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 19, 116-122. (K. R. Schneider) 41 #7224

Tihonov, Andreĭ Nikolaevič

(with Samarskiĭ, A. A.) Homogoneous difference schemes. (Russian) *Ž. Vyčisl. Mat. I Mat. Fiz.* 1 (1961), 5-63. (A. J. Lohwater) 29 #5391

(with Samarskiĭ, A. A.) Homogeneous difference schemes of a high order of accuracy on non-uniform nets. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 425-440. (Walter Gautschi) 33 #888

(with Samarskiĭ, A. A.) The Sturm-Liouville difference problem. *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 784-805 *(Russian); translated as U.S.S.R. Comput. Math. and Math. Phys.* 4 (1962), 939-961. (W. Sangren) 33 #1976

(with Samarskiĭ, A. A.) Homogeneous difference schemes on irregular meshes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 2 (1962), 812-832. (H. J. Norton) 29 #5392

* (with Samarskiĭ, A. A.) Equations of mathematical physics. Translated by A. R. M. Robson and P. Basu; translation edited by D. M. Brink. A Pergamon Press Book. *The Macmillan Co., New York,* 1963. xvi + 765 *pp.* (Editors) 29 #2498

On the solution of incorrectly put problems and the regularisation method. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 261-265. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. Sarason) 35 #2100

(with Samarskiĭ, A. A.) On the theory of homogeneous difference schemes. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 266-273. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. Sarason) 35 #2499

* (with Budak, B. M.; Tihonov, A. N.) A collection of problems on mathematical physics. Translated by A. R. M. Robson; translation edited by D. M. Brink. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. xii + 770 *pp.* (Editors) 29 #4969

* (with Samarskiĭ, A. A.) Partial differential equations of mathematical physics. Vol. I. Translated by S. Radding. *Holden-Day, Inc., San Francisco, Calif.-London-Amsterdam,* 1964. ix + 380 *pp.* (Editors) 31 #3687

On stable summability methods for Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 268-271. (A. Peyerimhoff) 29 #420

On the solution of non-linear integral equations of the first kind. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1296-1299. (H. P. Thielman) 29 #441

(with Arsenin, V. Ja.) On some non-linear functionals. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 512-521. (G. J. Minty) 31 #3880 (with Gorbunov, A. D.) Error estimates for a Runge-Kutta type method and the choice of optimal meshes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 232-241. (M. L. Juncosa) 29 #740

(with Glasko, V. B.) An approximate solution of Fredholm integral equations of the first kind. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 564-571. (L. B. Rall) 29 #6654

On methods for solving incorrect problems encountered in data processing. (Russian) *Proc. Conf. Math. Methods of Solution of Problems in Nuclear Phys. (Russian), pp.* 5-10. *Ob"edin. Inst. Jadernyh Issled., Dubna,* 1965. (E. L. Albasiny) 34 #5333

On non-linear equations of the first kind. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1023-1026. (G. J. Minty) 34 #3387

Regularisation methods for optimal control problems. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 763-765. (C. Olech) 31 #3274

On incorrect problems of linear algebra and a stable method for their solution. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 591-594. (RŽMat 1965 #11 B481)) 36 #6130

Ill-posed problems of optimal planning and stable methods for their solution. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 507-510. (B. Bereanu) 32 #7230

On the stability of algorithms for the solution of degenerate systems of linear algebraic equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 718-722. (H. Schwerdtfeger) 34 #941

* (with Tihonov, A. N.) Уравнения математической физики. (Russian) [Equations of mathematical physics] Third corrected and augmented edition. *Izdat. "Nauka", Moscow,* 1966. 724 *pp.* (Editors) 35 #1982

(with Gorbunov, A. D.; Gaĭsarjan, S. S.) Description of an algorithm for constructing optimal nets in the solution of the Cauchy problem for ordinary differential equations by the Runge-Kutta method. (Russian) *Comput. Methods Programming, V (Russian), pp.* 17-20. *Izdat. Moskov. Univ., Moscow,* 1966. (Walter Gautschi) 35 #3898

(with Gorbunov, A. D.; Gaĭsarjan, S. S.) Peculiarities in the graph of the total error of an approximate solution of the Cauchy problem for an ordinary differential equation. (Russian) *Comput. Methods Programming, V (Russian), pp.* 21-27. *Izdat. Moskov. Univ., Moscow,* 1966. (Walter Gautschi) 35 #3899

(with Sobolev, S. L.; Erugin, N. P.) To the 50th birthday of A. V. Bicadze. (Russian) *Differencial'nye Uravnenija* 2 (1966), 716-718. (Editors) 33 #1215

(with Il'in, V. A.; Svešnikov, A. G.) Andreĭ Nikolaevič Tihonov. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1408-1412. (Editors) 34 #1147

(with Kolmogorov, A. N.; Ljusternik, L. A.; Smirnov, Ju. M.; Fomin, S. V.) Pavel Sergeevič Aleksandrov. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 4 (130), 4-7. (Editors) 33 #2517

On incorrect problems of optimal planning. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 1, 81-89. 33 #5384

Stability of a problem of optimization of functionals. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 631-634. (Zita Poracká) 33 #6467

* (with Samarskiĭ, A. A.) Partial differential equations of mathematical physics. Vol. II. Translated by S. B. Radding. *Holden-Day, Inc., San Francisco, Calif.-London-Amsterdam,* 1967. xi + *pp.* 381-621. (Editors) 35 #6957

Ill-posed problems. (Russian) *Computing Methods and Programming, VIII (Russian), pp.* 3-33. *Izdat. Moskov. Univ., Moscow,* 1967. (RŽMat 1968 #6 B870) 44 #1181

(with Aleksandrov, P. S.; Il'in, V. A.) Andreĭ Nikolaevič Tihonov. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 133-134. (1 *plate*) (Editors) 34 #5623

(with Aleksandrov, P. S.; Fomin, S. V.) Works of A. N. Tihonov in the area of topology and functional analysis. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 134-138. 34 #5624

(See also Dmitriev, V. I.; Svešnikov, A. G., 34 #5625; Vasil'eva, A. B.; Volosov, V. M., 34 #5626; Il'in, V. A., 34 #5627; Samarskiĭ, A. A., 34 #5628; and Bibliography, 34 #5629)

On methods of solving incorrectly formulated problems. (Russian) *Proc. Internat. Congr. Math. (Moscow,* 1966), *pp.* 720-722. *Izdat. "Mir", Moscow,* 1968. (O. Horáček) 38 #6208

(with Dmitriev, V. I.) A method for calculating the current distribution in a system of linear current oscillators and the directivity diagram of this system. (Russian) *Computing Methods and Programming, X (Russian), pp.* 3-8. *Izdat. Moskov. Univ., Moscow,* 1968. (J. E. Rosenthal) 41 #1294

(with Glasko, V. B.; Litvinenko, O. K.; Melihov, V. P.) Analytic continuation of a potential in the direction of disturbing masses by the regularization method. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1968, 30-48 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1968, 738-747. (Authors' summary) 39 #3011

(with Vasil'eva, A. B.; Zverkin, A. M.; Kamenskiĭ, G. A.; Myškis, A. D.; Norkin, S. B.) Lev Èrnestovič Èl'sgol'c. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 2 (140), 193-200. (1 *plate*) (Editors) 36 #4950

(with Karmanov, V. G.; Rudneva, T. L.) The stability of linear programming problems. (Russian) *Computing Methods and Programming, XII (Russian), pp.* 3-9. *Izdat. Moskov. Univ., Moscow,* 1969. (S. Lebedev (RŽMat 1970 #2 V477)) 44 #2493

(with Il'in, V. A.; Svešnikov, A. G.; Arsen'ev, A. A.) Aleksandr Andreevič Samarskiĭ on his fiftieth birthday. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1909-1914. (Editors) 40 #5405

(with Gaĭsarjan, S. S.) The selection of optimal nets in the approximate computation of quadratures. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1170-1176. (Walter Gautschi) 41 #7847

(with Aleksandrov, P. S.; Višik, M. I.; Kolmogorov, A. N.; Oleĭnik, O. A.) Ivan Georgievič Petrovskiĭ (On his seventieth birthday). (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 1, 111-117. (Editors) 43 #4616; erratum, 44, p. 1632

Tihonov, N. A.

A certain inverse problem for a nonlinear equation. (Russian *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 830-840. (P. B. Bailey) 40 #7525

Tihonov, O. N.

The optimal interval of interpolation by Lagrange polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 9 (88), 74-75. (P. Neumann (Zbl 193, 453)) 43 #3694

Tihonov, V. A.

On degenerate Ribaucour transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 5 (42), 104-108. (M. Decuyper) 30 #2413

On a class of congruences of spheres. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 724-726. (B. Cenkl) 30 #515

On the foundations of the *p*-deformation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 153-157. (Z. Nádeník) 30 #2414

Tihonov, V. I.

Variance of the number of overshoots in sample functions of a normal noise of finite duration. *Radiotehn. i Èlektron.* 9 (1964), 45-52 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 35-41. 32 #7311

Characteristics of overshoots in random processes (review). *Radiotehn. i Èlektron.* 9 (1964), 371-400 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 295-320. (Editors) 32 #7312

(See also Non-linear transformations of stochastic processes 32 #3120)

Nonlinear filtering and the quasi-optimal character of phase-type automatic frequency control. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 2, 88-101. 32 #2260

Statistical characteristics of the random phase of a quasi-harmonic process. *Radiotehn. i Èlektron.* 13 (1968), 818-831 *(Russian); translated as Radio Engrg. Electron. Phys.* 1968, 710-721. (M. R. Leadbetter) 40 #954

Tihonova, È. A.

An analogy between the solutions of perturbed and unperturbe systems and the completeness of a divided diagonal matrix. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1037-1054. (K. R. Schneider) 39 #7234

Similarity of the solutions of a perturbed and an unperturbe system with a divided-diagonal matrix. (Russian) *Differencial'ny Uravnenija* 6 (1970), 962-974. (K. R. Schneider) 42 #8025

Similarity and homeomorphism of a perturbed and an unperturb system with block-triangular matrix. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1221-1229. (I. Kiguradze) 42 #8026

Tiĭt, È.

An example of a series that has a discrete range of sums. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 253 (1970), 148-164. (Hubert Tietz) 44 #678

Tijdeman, Robert

On a conjecture of Turán and Erdős. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 374-383. (D. G. Cantor) 34 #5767

* On the distribution of the values of certain functions. (Dut foreword and summary) Doctoral dissertation, University of Amsterdam. *Universiteit van Amsterdam, Amsterdam,* 1969. x + 94 *pp. (loose insert)* (M. Marden) 41 #3717

On an inequality of P. Turán. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 357-363. (D. Hinton) 42 #3350

On the number of zeros of general exponential polynomials. *Nederl. Akad. Wetensch. Proc. Ser. A* 74 = *Indag. Math.* 33 (1971), 1-7. (R. Wallisser) 44 #4193

Tijms, H. C.

* (with de Leve, G.; Weeda, P. J.) Generalized Markovian decision processes. Applications. Mathematical Centre Tracts, 5. *Mathematisch Centrum, Amsterdam,* 1970. iii + 108 *pp.* (J. F. C. Kingman) 42 #4187

The optimality of *(s, S)* inventory policies in the infinite period model. *Statistica Neerlandica* 25 (1971), 29-43. (H. L. Seal) 43 #4158

Tikhomirova, E. S. See Tihomirova, E. S.

Tikhonov, A. N. See Tihonov, A. N.

Tikhonov, V. I. See Tihonov, V. I.

Tikkiwal, B. D.

A note on two-stage sampling on successive occasions. *Sankhyā Ser. A* 26 (1964), 97-100. (L. Weiss) 30 #2645

The theory of two-stage sampling on successive occasions. *J. Indian Statist. Assoc.* 3 (1965), 125-135. (Author's summary) 32 #6635

Regression methods of estimation. *Rajasthan Univ. Studies Statist.* 1965, 11-30. (N. U. Prabhu) 39 #2272

Some aspects of sampling with varying probabilities from a finite population. *Rajasthan Univ. Studies Statist.* 1965, 31-52. 39 #3638

Theory of multiphase sampling from a finite or an infinite population on successive occasions 1, 2. (French summary) *Rev. Inst. Internat. Statist.* 35 (1967), 247-263. (C. Hayashi) 36 #6101

Tikochinsky, Y.

An addition theorem for spherical harmonics. *Proc. Cambridge Philos. Soc.* 63 (1967), 1093-1096. (D. P. Gupta) 36 #437

Tikoo, Mohan Lal

Location of the zeros of a polynomial. *Amer. Math. Monthly* 74 (1967), 688-690. (M. Marden) 35 #5583

Tiktopoulos, George

(with Treiman, S. B.) Weak-coupling limit for scattering by strongly singular potentials. *Phys. Rev.* (2) 134 (1964), B844-B847. (E. Predazzi) 29 #3170

(with Treiman, S. B.) Amplitude bounds in the ladder graph approximation. *Phys. Rev.* (2) 135 (1964), B711-B715. (Authors' summary) 30 #3708

Euclidean approach to the Bethe-Salpeter equation for scattering. *Phys. Rev.* (2) 136 (1964), B275-B280. (N. Nakanishi) 31 #1922

(with Treiman, S. B.) Amplitude bound in ladder graph models. II. *Phys. Rev.* (2) 136 (1964), B1217-B1220. (N. Nakanishi) 31 #1934

Note on positronium. *J. Mathematical Phys.* 6 (1965), 573-577. (T. Erber) 30 #4521

(with Treiman, S. B.) Bounds for a class of Bethe-Salpeter amplitudes. *Phys. Rev.* (2) 137 (1965), B1597-B1602. (N. Nakanishi) 32 #3560

High-energy large-angle scattering by singular potentials. *Phys. Rev.* (2) 138 (1965), B1550-B1558. (F. Calogero) 32 #5083

(with Jones, C. Edward) Numerical solution of non-Fredholm (singular) integral equations by matrix inversion. *J. Mathematical Phys.* 7 (1966), 311-315. (Authors' summary) 32 #3294

Tiku, M. L.

Approximation to Student's t distribution in terms of Hermite and Laguerre polynomials. *J. Indian Math. Soc. (N.S.)* 27 (1963), 91-102. (Author's summary) 29 #685

A Laguerre product series approximation to one-way classification variance ratio distribution. *J. Indian Soc. Agric. Statist.* 15 (1963), 223-231. 32 #6588

Approximating the general non-normal variance-ratio sampling distributions. *Biometrika* 51 (1964), 83-95. (Author's summary) 30 #2607

A note on the negative moments of a truncated Poisson variate. *J. Amer. Statist. Assoc.* 59 (1964), 1220-1224. (Benjamin Epstein) 30 #5400

An approximation to the non-central distribution of one-way classification variance-ratio. *J. Indian Math. Soc. (N.S.)* 28 (1964), 51-67 (1965). (A. K. Gayen) 32 #4799

Series expansions for the doubly non-central F-distribution. *Austral. J. Statist.* 7 (1965), 78-89. (A. K. Gayen) 34 #2107

Laguerre series forms of non-central χ^2 and F distributions. *Biometrika* 52 (1965), 415-427. (M. E. Wise) 35 #7445

Chi-square approximations for the distributions of goodness-of-fit statistics U^2_N and W^2_N. *Biometrika* 52 (1965), 630-633. 34 #5215

A note on approximating to the non-central F distribution. *Biometrika* 53 (1966), 606-610. (H. L. Harter) 35 #7446

A note on estimating the location and scale parameters of the exponential distribution from a censored sample. *Austral. J. Statist.* 9 (1967), 49-54. (Benjamin Epstein) 36 #6087

Estimating the mean and standard deviation from a censored normal sample. *Biometrika* 54 (1967), 155-165. (C. C. Craig) 35 #7465

Tables of the power of the F-test. *J. Amer. Statist. Assoc.* 62 (1967), 525-539. (Author's summary) 35 #3805

Estimating the paramaters of normal and logistic distributions from censored samples. *Austral. J. Statist.* 10 (1968), 64-74. 38 #1779

Estimating the parameters of log-normal distribution from censored samples. *J. Amer. Statist. Assoc.* 63 (1968), 134-140. (G. Roussas) 36 #7246

(with Pearson, E. S.) Some notes on the relationship between the distributions of central and non-central F. *Biometrika* 57 (1970), 175-179. 42 #8599

Tilanus, C. B.

(with Rothenberg, Thomas J.; Fisher, Franklin M.) A note on estimation from a Cauchy sample. *J. Amer. Statist. Assoc.* 59 (1964), 460-463. (V. S. Huzurbazar) 29 #4145

Tilgner, Hans

A class of solvable Lie groups and their relation to the canonical formalism. (French summary) *Ann. Inst. H. Poincaré Sect A (N.S.)* 13 (1970), 103-127. (R. H. Herman) 43 #2929

A spectrum generating nilpotent group for the relativistic free particle. (French summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 13 (1970), 129-136. (Author's summary) 44 #3602

A class of Lie and Jordan algebras realized by means of the canonical commutation relations. (French summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 179-188. (O. Loos) 44 #6782

Tilley, D. R.

The Ginzburg-Landau equations for pure two band superconductors. *Proc. Phys. Soc.* 84 (1964), 573-584. (B. P. Nigam) 31 #5589

Tilley, R. C.

(with Stanton, R. G.; Cowan, D. D.) The cell growth problem for filaments. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La., 1970), pp.* 310-339. *Louisiana State Univ., Baton Rouge, La.,* 1970. (D. A. Klarner) 43 #69

Tilljašaĭhova, R.

An example of computing the Green's function. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1962, *no.* 6, 44-52. (M. Kiveliovitch) 29 #6043

(with Gubin, V. I.) A certain method of solving the equations of hydrothermodynamics. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 5, 7-9. 43 #5781

Tillman, Stephen J.

The multiplicative group of absolutely algebraic fields in characteristic p. *Proc. Amer. Math. Soc.* 23 (1969), 601-604. (H. Yokoi) 40 #5588

Tillmann, Heinz Günther

Darstellung vektorwertiger Distributionen durch holomorphe Funktionen. *Math. Ann.* 151 (1963), 286-295. (John G. Taylor) 30 #2340

Zur Eindeutigkeit der Lösungen der quantenmechanischen Vertauschungsrelationen. II. *Arch. Math.* 15 (1964), 332-334. (H. Wakita) 29 #6842

Tilson, Bret R.

Appendix to "Algebraic theory of finite semigroups". On the p length of p-solvable semigroups: Preliminary results. *Semigroups (Proc. Sympos., Wayne State Univ., Detroit, Mich., 1968), pp.* 163-208. *Academic Press, New York,* 1969. (Y. Zalcstein) 43 #3369

(with Rhodes, John) Lower bounds for complexity of finite semigroups. *J. Pure Appl. Algebra* 1 (1971), *no.* 1, 79-95. (C. F. Kelemen) 44 #2867

Timan, A. F.

A problem connected with the strengthened Jackson theorem. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 164-167. *Fizmatgiz, Moscow,* 1961. (R. P. Boas, Jr.) 32 #4434

On simultaneous approximation of functions and their derivatives on the whole real axis. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 44-46. *Fizmatgiz, Moscow,* 1961. (R. P. Boas, Jr.) 32 #4440

(with Brudnyĭ, Ju. A.) A constructive characteristic of compact sets in Banach apaces and ε-entropy. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 324-328. *Fizmatgiz, Moscow,* 1961. (G. G. Lorentz) 32 #6182

* Theory of approximation of functions of a real variable. Translated from the Russian by J. Berry. English translation edited and editorial preface by J. Cossar. International Series of Monographs in Pure and Applied Mathematics, Vol. 34. *Pergamon, Oxford,* 1963. xii + 631 *pp.* (Editors) 33 #465

On the mutual deviation of classes of real functions defined on an arbitrary compactum and with given majorants of the modulus of continuity. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 1416-1418. (Author's summary) 29 #2334

Some investigations in the theory of approximation of functions of a real variable. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961) *(Russian), Vol. II, pp.* 683-693. *Izdat. "Nauka", Leningrad,* 1964. (P. C. Sikkema) 37 #4463

A non-linear functional equation in the class of functions which are convex on a semi-axis. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 515-526. (S. Mandelbrojt) 29 #6210

Exact inequality for the modulus of continuity of a class of quasi-smooth functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 296-298. (H. Fast) 32 #2529

The order of growth of ε-entropy of spaces of real continuous functionals defined on a connected compactum. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 1 (115), 173-177. (R. L. Adler) 29 #213

On a certain problem from the theory of approximations connected with the metrization theorem of P. S. Uryson. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian), pp.* 562-571. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (S. G. Mrowka) 34 #1773

The deformation of metric spaces and certain related questions of the theory of functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 2 (122), 53-87. (E. J. Akutowicz) 32 #6414

(with Trofimov, V. N.) Difference inequalities for functions harmonic in a disc. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 777-780. (T. J. Reed) 35 #6850

The ε-entropy of Arzelà compacta of functions given on closed sets of positive Lebesgue measure. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 285-287. (G. G. Lorentz) 36 #4236

Best uniform approximation of continuous functions by entire functions of finite degree on the whole real axis. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 790-792. (G. G. Lorentz) 36 #4226

Tīman, M. F.

Singularities of approximation of functions in different metrics. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 69-72. *Fizmatgiz, Moscow,* 1961. (R. P. Boas, Jr.) 32 #2804

Some problems of the constructive theory of functions of several variables. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 247-251. *Fizmatgiz, Moscow,* 1961. (R. P. Boas, Jr.) 32 #6122

Deviation of harmonic functions from their boundary values and best approximation. (Russian) *Dokl. Akad. Nauk SSSR* 145 (1962), 1008-1009. (G. G. Lorentz) 31 #3624

(with Ponomarenko, V. G.) Some generalizations of a theorem of Zygmund. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 266-270. (G. Sunouchi) 32 #2823

Regular mappings of multi-sequences. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 299-307. (G. Goes) 32 #2784

(with Ponomarenko, Ju. A.) Certain tests for absolute summability of Fourier series. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian), pp.* 489-492. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (F. Ustina) 33 #6288

Peculiarities of fundamental theorems of the constructive theory of functions in the spaces L_p. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian), pp.* 18-25. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (J. T. Scheick) 35 #647

Best approximation of a function and linear methods of summing Fourier series. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 587-604. (R. P. Boas, Jr.) 31 #3785

Remark on the question of the absolute summability of orthogonal series. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 1533-1536. (M. Skalsky) 34 #6436

On Jackson's theorem in L_p-spaces. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 1, 134-137. (J. Horváth) 33 #3034

Some identities for functions of several variables and their applications. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 40-42. (K. Tarumoto) 36 #6562

The approximation of continuous periodic functions by linear operators which are constructed on the basis of their Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 1339-1342. (M. Tomić) 38 #473

Particular best approximations of functions, absolute convergence of Fourier series and nuclearity of Hilbert-Schmidt integral operators. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 361-374. (J. Albrycht) 37 #677

The approximation of functions defined on the whole real axis by entire functions of exponential type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 2 (69), 89-101. (G. G. Lorentz) 37 #1627

The order of approximation of a function by Zygmund's normal averages. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 29-32. (A. Peyerimhoff) 39 #4599

The absolute Cesàro summability of orthogonal Fourier series. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 4, 109-113 (1968). (A. Efimov (RŽMat 1969 #12 B133)) 43 #810

Estimation of the derivatives of the solution of a boundary value problem for a polyharmonic equation. (Russian) *Differencial'nye Uravnenija* 5 (1969), 574-579. (G. C. Barozzi) 39 #4421

The difference properties of functions of several variables. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 667-676. (J. Galambos) 42 #6165

(with Ponomarenko, V. G.) Constructive characteristics of certain classes of periodic functions of several variables. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1107-1120, 1198. (G. G. Lorentz) 43 #2404

(with Tīman, M. F.) Best approximations and the absolute convergence of Fourier-Haar series. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 1280-1282. (R. P. Boas, Jr.) 43 #6650

(with Ponomarenko, Ju. A.) The absolute summability of multiple Fourier series. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 346-361. (R. L. Cooke) 44 #5716

Timan, T. A.

On the growth of functions conjugate to entire functions of finite degree. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1026-1027. (R. P. Boas, Jr.) 30 #3219

On the continuation of Hölder continuous functions. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1009-1010. (J. Korevaar) 31 #4866

Proof of a geometric theorem of Jung, and its analogue in the theory of stochastic processes. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 213-218. (Victor Klee) 32 #482

On a certain problem of S. G. Mihlin concerning the order of singular integrals at infinity. (Russian) *Mat. Zametki* 3 (1968), 461-472. (L. Cattabriga) 37 #4677

On singular integral transforms in weighted L_p spaces. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 292-295. (E. Schock) 38 #6408

Existence conditions and estimates for Calderón-Zygmund type transforms in weighted L_p spaces. (Russian) *Trudy Mat. Inst. Steklov.* 105 (1969), 213-229. (J. Albrycht) 41 #4317

Timašev, A. N.

(with Fedorov, S. V.) Commutative group algebras. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 4, 61-65. (B. R. Gelbaum) 40 #7832

Timčenko, A. A.

(with Biĭčuk, L. M.; Voloboev, B. A.) Development of the methods of structural synthesis for nonlinear systems of automatic control. (Ukrainian. Russian and English summaries) *Avtomatika* 1967, *no.* 5, 48-56. (C. Olech) 36 #3588

Timirev, N. P.

(with Fedorenkov, A. I.) The propagation of unsymmetric waves along a conical helix with variable parameters. (Russian) *Radiotehn. i. Èlektron.* 10 (1965), 760-763. 31 #1898

Timlake, William P.

On an algorithm of Milne and Reynolds. *Nordisk Tidskr. Informations-Behandling* 5 (1965), 276-281. (Author's summary) 32 #4860

An extension of the $\sum^2$ procedure. *Numer. Math.* 7 (1965), 261-268. (J. Kuntzmann) 32 #4861

(with Lynn, M. Stuart) The numerical solution of singular integral equations of potential theory. *Numer. Math.* 11 (1968), 77-98. (Joel Davis) 38 #887

(with Lynn, M. Stuart) The use of multiple delations in the numerical solution of singular systems of equations, with applications to potential theory. *SIAM J. Numer. Anal.* 5 (1968), 303-322. (B. N. Parlett) 37 #3745

(with Ikebe, Y.; Lynn, M. S.) The numerical solution of the integral equation formulation of the Newmann problem. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh, 1968), Vol.* 1: *Mathematics, Software, pp.* 134-137. *North-Holland, Amsterdam,* 1969. (Authors' summary) 41 #1251

(with Lynn, M. Stuart) Bounds for Perron eigenvectors and subdominant eigenvalues of positive matrices. *Linear Algebra and Appl.* 2 (1969), 143-152. (N. J. Pullman) 39 #1477

(with Ikebe, Yasuhiko; Lynn, M. Stuart) The numerical solution of the integral equation formulation of the single interface Neumann problem. *SIAM J. Numer. Anal.* 6 (1969), 334-346. (G. F. Miller) 41 #6424

(with Lynn, M. Stuart) On the eigenvalues and eigenvectors of the integral equation formulation of the multi-interface Neumann problem. *J. Inst. Math. Appl.* 6 (1970), 391-399. (H. L. Jackson) 43 #6671

Timm, Jürgen

Eine Klasse schwacher binärer Doppelstrukturen. *Abh. Math. Sem. Univ. Hamburg* 33 (1969), 102-118. (W. A. McWorter) 39 #5745

Produkttreue Klassen universeller Algebren. *Arch. Math. (Basel)* 20 (1969), 485-490. (J. Foremke) 40 #5529

Die Lösung eines Problems von Havel. *Arch. Math. (Brno)* 5 (1969), 25-28. (V. Havel) 43 #3309

Zur Theorie der (nicht notwendig assoziativen) Fastringe. *Abh. Math. Sem. Univ. Hamburg* 35 (1970), 14-31. (G. Betsch) 43 #2029

Zur Konstruktion von Fastringen. I. *Abh. Math. Sem. Univ. Hamburg* 35 (1970), 57-74. (J. J. Malone, Jr.) 43 #2030

Über die additiven Gruppen spezieller Fastringe. *J. Reine Angew. Math.* 239/240 (1969), 47-54. (J. J. Malone, Jr.) 40 #4316

Timman, Reiner

Unsteady motion in transonic flow. *Sympos. Transsonicum (IUTAM, Aachen, Sept. 1962), pp.* 394-401. *Springer-Verlag, Berlin,* 1964. (D. C. Pack) 34 #3867

(See also Handbook of mathematics. 1, 41 #3210)

(with Nottrot, R.) A general method of solving the plane elasto-plastic problem. *J. Engrg. Math.* 1 (1967), 19-36. (A. M. Freudenthal) 35 #6401

Principles of mathematical programming. *Statistica Neerlandica* 21 (1967), 199-209. (J. N. Kapur) 35 #5223

(See also Handbuch der Mathematik, 36 #3617 and Handbook of mathematics, 40 #1223)

Timmesfeld, F. G.

Eine Kennzeichnung der linearen Gruppen über GF(2). *Math. Ann.* 189 (1970), 134-160. (B. A. F. Wehrfritz) 42 #6097

Timofeev, A. K.

The construction of a rigging for a hypersurface in a space with affine connection. (Russian) *Balašov. Gos. Ped. Inst. Učen. Zap.* 10 (1963), 64-69. 40 #1928

Timofeev, E. K.

A certain nonlinear boundary value problem. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 4 (83), 92-102. (W. Žakowski) 41 #3784

A certain exterior nonlinear boundary value problem of analytic function theory. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1146-1154, 1198. (W. Žakowski) 42 #6247

Timofeev, N. M.

(with Levin, B. V.) Sums of multiplicative functions. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 992-995. (G. Halász) 42 #4510

An estimate of the remainder term in one dimensional asymptotic laws. (Russian) *Dokl. Akad. Nauk SSSR* 200 (1971), 298-301. (D. Ugrin-Šparac) 44 #3979

Timofeev, V. I.

The necessary optimality conditions of control in certain systems with distributed parameters and lag. (Russian) *Izv. Vysš. Učebn. Zaved. Aviacion. Tehn.* 1969, *no.* 26-32. (P. Brunovský) 44 #6381

The principle of optimality in the mean for stochastic systems with retarded argument. I. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 119 (1970), 40-46. (Editors) 43 #8425

Timohovič, V. L.

The lattice of topologies on a set. (Russian. English summaries) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* (1969), *no.* 5, 3-7. (R. M. Dacić) 41 #9179

A certain property of spaces admitting a perfect map onto metric ones. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 43-48. (R. Engelking) 43 #6879

Tīmonteev, V. M.

(with Lisicja, V. F.; Kalnībolots'kiĭ, Ju. M.) A method of topological analysis of electronic circuits. *Avtomatika* 1969, *no.* 5, 46-50 *(Ukrainian); translated as Soviet Automat. Control—Ukrain. J. Automat.* 1969, *no.* 5, 34-38. (P. R. Bryant) 43 #4569

Timontyeyev, V. M. See Tīmonteev, V. M.

Timor, Uzi

An upper bound on the estimation error in the threshold region. *IEEE Trans. Information Theory* IT-16 (1970), 692-699. (P. N. Rathie) 43 #4546

Timošenko, E. I.

Conjugacy in free metabelian groups. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 2, 89-94. (R. Gobël) 35 #6740

The preservation of elementary and universal equivalence in the wreath product. (Russian) *Algebra i Logika* 7 (1968), *no.* 4, 114-119. (F. Haimo) 41 #352

Timourian, J. G.

Fiber bundles with discrete singular set. *J. Math. Mech.* 18 (1968/69), 61-70. (D. G. Bourgin) 38 #3875

(with Church, P. T.) Fiber bundles with singularities. *J. Math. Mech.* 18 (1968/69), 71-90. (D. G. Bourgin) 38 #3876

Maps with discrete branch sets between manifolds of codimension one. *Canad. J. Math.* 21 (1969), 660-668. (C. H. Griffen) 39 #2165

Maps with locally flat singular sets. *Canad. J. Math.* 22 (1970), 916-921. (J. W. Rutter) 42 #8497

Singular maps of manifolds. *Duke Math. J.* 38 (1971), 29-42. (J. P. Levine) 43 #4053

Timuhin, G. I.

(with Buleev, N. I.) The numerical solution of the hydrodynamical equations for the plane flow of an incompressible viscous fluid. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1969, *no.* 3, 14-24. (J. H. Giese) 42 #1352

Tindell, Ralph S.

A counterexample on relative regular neighborhoods. *Bull. Amer. Math. Soc.* 72 (1966), 892-893. (L. Neuwirth) 33 #6635

A midly wild two-cell. *Michigan Math. J.* 13 (1966), 449-457. (J. C. Cantrell) 34 #3561

Some wild imbeddings in codimension two. *Proc. Amer. Math. Soc.* 17 (1966), 711-716. (M. L. Curtis) 34 #801

Knotting tori in hyperplanes. *Conference on the Topology of Manifolds (Michigan State Univ., E. Lansing, Mich., 1967), pp.* 147-153. *Prindle, Weber & Schmidt, Boston, Mass.,* 1968. (D. W. L. Sumners) 39 #971

Extending homeomorphisms of $S^p \times S^q$. *Proc. Amer. Math. Soc.* 22 (1969), 230-232. (O. G. Harrold) 40 #2102

Relative concordance. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga., 1969), pp.* 453-357. *Markham, Chicago, Ill.,* 1970. (C. H. Edwards, Jr.) 42 #8504

Classifying bounded 2-manifolds in S^4. *Osaka J. Math.* 7 (1970), 173-177. (H. E. Debrunner) 41 #7693

Noncombinatorial triangulations and the Poincaré conjecture. *Proc. Amer. Math. Soc.* 24 (1970), 60-62. (C. L. Seebeck, III) 40 #2103

Tindle, Graham L.

(with Domokos, Gabor) On subalgebras which survive contraction. *Comm. Math. Phys.* 7 (1968), 160-163. (U. Ottoson) 36 #6551

Tinè, Guido

Nota sulla integrazione approssimata, per via grafica delle equazioni differenziali ordinarie. *Ricerca (Napoli)* (2) 15 (1964), *gennaio-aprile,* 41-50. (M. Zlámal) 31 #4203

Ting, Lu

(with Brofman, Sherwood) On take-off from circular orbit by small thrust. (German and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 417-428. (Authors' summary) 32 #3332

On the initial conditions for boundary layer equations. *J. Math. and Phys.* 44 (1965), 353-367. (J. C. Cooke) 32 #6806

(with Tung, C.) Motion and decay of a vortex in a nonuniform stream. *Phys. Fluids* 8 (1965), 1039-1051. (J. D. Murray) 32 #6797

(with Keller, Joseph B.) Periodic vibrations of systems governed by nonlinear partial differential equations. *Comm. Pure Appl. Math.* 19 (1966), 371-420. (D. R. Miller) 34 #5347

(with Kleinstein, G.) Optimum one-term solutions for heat conduction problems. (German and Russian summaries) *Z. Angew. Math. Mech.* 51 (1971), 1-16. (R. Gerber) 43 #4358

Ting, Thomas C. T.

The maximum-minimum principles for a quasi-linear parabolic finite difference equation. *Quart. Appl. Math.* 22 (1964), 47-55. (J. R. Cannon) 29 #5400

A method of solving a system of linear equations whose coefficients form a tridiagonal matrix. *Quart. Appl. Math.* 22 (1964), 105-116. (James H. Wilkinson) 29 #5378

(with Symonds, P. S.) Longitudinal impact on viscoplastic rods—linear stress-strain rate law. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 199-207. (G. Eason) 29 #3064

(with Symonds, P. S.) Longitudinal impact on viscoplastic rods—approximate methods and comparisons. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 611-620. (S. C. Hunter) 30 #2768

Ting, Tsuan Wu

The ridge of a Jordan domain and completely plastic torsion. *J. Math. Mech.* 15 (1966), 15-47. (P. G. Hodge, Jr.) 32 #1975

Elastic-plastic torsion of a square bar. *Trans. Amer. Math. Soc.* 123 (1966), 369-401. (I. Tadjbakhsh) 33 #3518

Elastic-plastic torsion problem. II. *Arch. Rational Mech. Anal.* 25 (1967), 342-366. (F. Odeh) 35 #5176

Upper and lower bounds of the radii of gyration of convex bodies. *Trans. Amer. Math. Soc.* 128 (1967), 336-357. (G. C. Shephard) 36 #2060

Upper and lower bounds of the radii of gyration of convex bodies. II. *J. Math. Mech.* 18 (1968/69), 357-368. (G. C. Shephard) 38 #609

Elastic-plastic torsion problem. III. *Arch. Rational Mech. Anal.* 34 (1969), 228-244. (F. Odeh) 41 #9479

Elastic-plastic torsion of convex cylindrical bars. *J. Math. Mech.* 19 (1969/70), 531-551. (B. R. Seth) 40 #3780

Parabolic and pseudo-parabolic partial differential equations. *J. Math. Soc. Japan* 21 (1969), 440-453. (M. Jodeit, Jr.) 41 #8827

Elastic-plastic torsion of simply connected cylindrical bars. *Indiana Univ. Math. J.* 20 (1970/71), 1047-1076. (B. R. Seth) 43 #2898

Ting, Wei-lung

On cohomology groups of Banach algebras. *Proc. Amer. Math. Soc.* 21 (1969), 175-178. (E. Binz) 39 #7429

On secondary characteristic classes in cobordism theory. *Pacific J. Math.* 33 (1970), 249-253. (R. E. Stong) 41 #4572

Ting Ch'uan-sung

Convergence in the large of solutions of non-linear operator equations by the tangential-hyperbolic procedure. (Chinese) *Shuxue Jinzhan* 6 (1963), 352-359. (C.-B. Ling) 34 #2148

Ting Ch'un-hua

On the total curvature of curves. II. *Acta Math. Sinica* 13 (1963), 508-514 *(Chinese); translated as Chinese Math.* 4 (1964), 553-560. (Author's introduction) 29 #1585

Ting Hsia-hsi

Some properties of a class of functional spaces and their applications. *Acta Math. Sinica* 10 (1960), 316-360 *(Chinese); translated as Chinese Math.-Acta* 1 (1962), 328-373. (D. E. Edmunds) 29 #1532

A note on my paper "On some properties of a class of functional spaces and their applications". *Acta Math. Sinica* 12 (1962), 107-108 *(Chinese); translated as Chinese Math.-Acta* 3 (1963), 113-114. (D. E. Edmunds) 29 #1533

A class of inequalities for the distributions. (Chinese) *Shuxue Jinzhan* 7 (1964), 49-56. (C. C. Wu) 39 #3304

Ting Jung-hsiu

On the theorem of Dajović. (Chinese) *Shuxue Jinzhan* 9 (1966), 197-204. (C. Y. Wang) 36 #1668

Ting Kuang-kuei

The resonance theorem for a noncomplete space. *Acta Math. Sinica* 13 (1963), 216-222 *(Chinese); translated as Chinese Math.* 4 (1963), 235-241. (A. Brown) 29 #3880

Tinh-Quat Pham, Daniel. See Pham, Daniel.

Tinkham, Michael

* Group theory and quantum mechanics. *McGraw-Hill Book Co., New York-Toronto, Ont.-London,* 1964. xii + 340 *pp.* (G. F. Koster) 33 #6982

Tinsley, M. F.

A combinatorial theorem in number theory. *Duke Math. J.* 33 (1966), 75-79. (B. J. Birch) 32 #7484

(with Payne, S. E.) On $v_1 \times v_2$ (n,s,t) configurations. *J. Combinatorial Theory* 7 (1969), 1-14. (K. Yamamoto) 39 #5391

}

Tin Sya-si. See Ting Hsia-hsi.

Tintner, Gerhard

(with Rao, J. N. K.) The distribution of the ratio of the variances of variate differences in the circular case. *Sankhyā Ser. A* 24 (1962), 385-394. (Authors' summary) 29 #6606

(with Rao, J. N. K.) On the variate difference method. *Austral. J. Statist.* 5 (1963), 106-116. (E. J. Hannan) 32 #573

(with Millham, Charles; Sengupta, J. K.) A weak duality theorem for stochastic linear programming. (German summary) *Unternehmensforschung* 7 (1963), 1-8. (H. F. Karreman) 32 #1009

(with van Moeseke, P.) Base duality theorem for stochastic and parametric linear programming. (German summary) *Unternehmensforschung* 8 (1964), 75-79. (Authors' summary) 32 #3855

A note on the relation between Mahalanobis distance and weighted regression. *Contributions to Statistics, pp.* 481-484. *Statist. Publ. Soc., Calcutta,* 1965. 35 #5080

(with Sengupta, J. K.; Millham, C.) On the stability of solutions under error in stochastic linear programming. *Metrika* 9 (1965), 47-60. 32 #5373

(with Narayanan, R.) A multi-dimensional stochastic process for the explanation of economic development. *Metrika* 11 (1966), 85-90. (A. L. Nagar) 35 #2617

(with Sengupta, J. K.) On the stability of solutions under recursive programming. *Unternehmensforschung* 10 (1966), 1-14. (Authors' summary) 32 #5374

(See also Economic models, estimation and risk programming, 40 #2336; and Bibliography, 40 #1251)

(with Rama Sastry, M. V.) Information theory and the statistical estimation of econometric relations. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio,* 1968*), pp.* 687-696. *Academic Press, New York,* 1969. (P. K. Bhattacharya) 40 #8500

Tipei, N.

Effects of the microgeometry of surfaces on lubrication. I. The two-dimensional problem. (Romanian. English summary) *Acad. R. P. Romîne Stud. Cerc. Mec. Apl.* 14 (1963), 995-1010. (A. J. Lohwater) 29 #843b

Effects of the microgeometry of surfaces on lubrication. I. The two-dimensional problem. *Rev. Méc. Appl.* 8 (1963), 981-996. (A. J. Lohwater) 29 #843a

Tirao, Juan A.

(with Wolf, Joseph A.) Homogeneous holomorphic vector bundles. *Indiana Univ. Math. J.* 20 (1970/71), 15-31. (R. L. E. Schwarzenberger) 41 #7715

Selfadjoint function spaces on Riemannian symmetric manifolds. *Proc. Amer. Math. Soc.* 24 (1970), 223-228. (J. A. Wolf) 40 #2788

Tirapegui, Enrique

Sur l'équation de Klein-Gordon en relativité générale. *C. R. Acad. Sci. Paris* 256 (1963), 4165-4167. (C. W. Kilmister (PA 66 #19547) 32 #3801

(with de Brucq, D.) Nonuniqueness of solutions in quantum field theory. (Italian and Russian summaries) *Nuovo Cimento A* (10) 67 (1970), 225-246. (J. E. Marsden) 41 #6505

Lower bounds and self-adjointness of Hamiltonians for a class of models. (Italian and Russian summaries) *Nuovo Cimento A* (11) 3 (1971), 561-583. (S. Newberger) 44 #1359

Tîrnoveanu, Mircea

"*S*" structure. (Romanian. Russian and German summaries) *Lucrăr. Sti. Inst. Politehn. Braşov Ser. Mec. Ser. Mec.* 4 (1960), 17-30. (S. Marcus) 32 #4015

On some properties of hyperabelian groups. (Romanian. Russia and German summaries) *Lucrăr. Şti. Inst. Politehn. Braşov Ser. Mec.* 4 (1960), 35-39. (Editors) 32 #1254

On generalized $\mathcal{G}$ -functions. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 12 (1962), 29-35. (M. Mişicu) 31 #1179

On the *P, Q*-deductive logical operations and the function $\mathcal{T}$. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 12 (1962), 177-182. (M. Mişicu) 31 #1180

Probabilistic methods in nonconstructive logical systems. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Stud Cerc. Mat.* 14 (1963), 485-491. (G. N. Raney) 32 #2319

On an algebraic structure with operators defined in $E_Y^{P^F}$. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Bucureşti* 25 (1963), *fasc.* 1, 13-28. (E. Engeler) 32 #2320

On a communication system of level I. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 703-709. (M. Mişicu) 31 #3307

* (Elemente de logică matematică. Vol. I. Logica propoziţiilor bivalente. (Romanian) [Elements of mathematical logic. Vol. I. Two-valued propositional logic] *Editura Didactică şi Pedagogică, Bucharest,* 1964. 517 *pp.* (E. Engeler) 35 #1438

Sur quelques propriétés des propositions générales. *An. Univ. Bucureşti Ser. Acta Logica* 7-8 (1964/65), 151-178. (Author's summary) 32 #5496

On a global semiconstructive system of logic. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politeh Bucureşti* 26 (1964), *no.* 5, 17-22. 32 #1123

On the valence modalities of a non-constructive logistic system of degree I. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politehn. Bucureşti* 26 (1964), *fasc.* 6, 29-33. 35 #32

Sur quelques propriétés d'un système logistique semi-construct modal. I. *An. Univ. Bucureşti Ser. Acta Logica* 9 (1966), 187-208. 35 #1452

Tiruvenkatachar, V. R. See Thiruvenkatachar, V. R.

Tischler, David

Totally parallelizable 3-manifolds. *Topological Dynamics (Symposium, Colorado State Univ., Ft. Collins, Colo.,* 1967*), pp.* 471-492. *Benjamin, New York,* 1968. (H. Suzuki) 38 #3884

On fibering certain foliated manifolds over S^1. *Topology* 9 (1970), 153-154. (H. Suzuki) 41 #1069

Tison, Françoise. See Maurer-Tison, Françoise.

Tison, Françoise Maurer. See Maurer-Tison, Françoise.

Tison, Pierre

La catégorie des espaces cohérents. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A853-A856. (J. R. Isbell) 43 #5488

Tisseron, Claude

Objets quasi-injectifs dans une catégorie abélienne avec générateur et limites inductives exactes. *Publ. Dép. Math. (Lyon)* 4 (1967), *fasc.* 2, 145-148. (J. L. Fisher) 36 #2668

Quelques remarques sur la *F*-injectivité. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1074-A1076. (K. G. Wolfson) 40 #4317

Quelques propriétés des modules quasi-injectifs. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1377-A1380. (Author's summary) 39 #2811

Quelques applications de la localisation. *Publ. Dép. Math. (Lyon)* 6 (1969), *fasc.* 4, 1-53. (N. Popescu) 43 #2012

Quelques applications de la notion de localisation. *Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot:* 1969/70, *Algèbre et Théorie des Nombres, Fasc.* 1, *Exp.* 10, 15 *pp. Secrétariat mathematique, Paris,* 1970. (R. A. Wiegand) 43 #4882

Sur une classe d'anneaux. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1354-A1356. (K. G. Wolfson) 42 #3120

Sur les anneaux tels que tout produit de copies d'un module quasi-injectif soit un module quasi-injectif. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1208-A1211. (Author's summary) 42 #5971

Tiţă, Nicolae I.

Nuclear operators in denumerable Hilbert spaces. (Romanian. German and Russian summaries) *Bul. Inst. Politehn. Braşov Ser. A Mec.* 8 (1966), 11-12. (Author's summary) 35 #4753

(The sign } indicates an entry in the supplement.)

On *A*-completely continuous operators. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1041-1043. (K.-H. Förster (Zbl 172, 405)) 41 #4293

On the bases of subspaces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Mat.-Mec.* 18 (1969), *no.* 1, 131-136. (Ivan Singer) 42 #836

Une représentation du déterminant de perturbation $D_{A*/A}(\lambda)$. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1625-1627. (S. R. Caradus) 41 #7475

On bases that are *p*-near to an orthonormal base in Hilbert space. (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 357-360. (Author's summary) 43 #882

The Schauder theorem for operators other than compact ones. (Romanian. French summary) *Bul. Inst. Politehn. Braşov Ser. A Mec.* 12 (1970), 7-9. (F. H. Szafraniec) 44 #3139

Considérations sur la complétude des vecteurs racines. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1265-1268. (S. R. Caradus) 43 #2556

Titani, Satoko

An algebraic formulation of cut-elimination theorem. *J. Math. Soc. Japan* 17 (1965), 72-83. (K. Schütte) 33 #32

Tite, T. See Tietz, Tadeusz.

Titchmarsch, Edward Charles. See Titchmarsh, Edward Charles.

Titchmarsh, Edward Charles

* Eigenfunction expansions associated with second-order differential equations. Part I. Second Edition. *Clarendon Press, Oxford,* 1962. vi + 203 *pp.* (Editors) 31 #426

* Han-shu lun. (Chinese) [The theory of functions] Translated from the English by Wu Chin. *Science Press, Peking,* 1964. viii + 500 *pp.* (Editors) 33 #5850

(See also Cartwright, M. L., 31 #17)

On the relation between the eigenvalues in relativistic and non-relativistic quantum mechanics. II. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 193-207. (J. M. Cook) 29 #3713

(See also Levitan, B. M., 30 #4664)

On the mean convergence of trigonometrical series. *J. London Math. Soc.* 40 (1965), 594-596. (A. E. Ingham) 32 #1503

Addendum: "On the mean convergence of trigonometrical series". *J. London Math. Soc.* 43 (1968), 367. (Editors) 36 #6863

Titenskiĭ, M. N.

(with Sobolevskiĭ, P. E.) An investigation of the solvability of perturbed parabolic equations in a Banach space, and a generalized Bubnov-Galerkin method for their approximate solution. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1495-1502. (M. Švec) 41 #2185

(with Sobolevskiĭ, P. E.) A generalized Bubnov-Galerkin method for the approximate solution of parabolic equations. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 6, 41-47. (T. Styś) 43 #3670

Titgemeyer, Dieter

Untersuchungen über die Struktur des Kleene-Postsohen Halbverbandes der Grade der rekursiven Unlösbarkeit. *Arch. Math. Logik Grundlagenforsch.* 8, 45-62 (1965). (C. E. M. Yates) 32 #5520

Einführung in die Theorie der Kalküle und Algorithmen. *Mathematikunterricht* 11 (1965), *no.* 2, 5-20. (P. Lorenzen) 32 #51

Titlebaum, E. L.

(with DeClaris, N.) Linear transformations of the ambiguity function. *IEEE Trans. Information Theory* IT-12 (1966), 120-125. (J. R. Klauder) 34 #2366

Titli, André

(with Grateloup, Georges) Convergence d'un algorithme coordinateur de type gradient en présence de couplage non linéaire entre les sous-systèmes dans la méthode de coordination par les objectifs. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A923-A926. (Authors' summary) 43 #7227

Titov, N. S.

Abstract functions of a complex variable in Banach spaces. (Russian) *Tul'sk. Gos. Ped. Inst. Učen. Zap. Fiz.-Mat. Nauk Vyp.* 7 (1960), 8-13. (George Biriuk) 33 #4294

Titov, O. V.

Quasiconformal harmonic mappings of Euclidean space. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 521-523. (P. Caraman) 42 #1996

Titov, V. V.

The simplest solution of the caterer problem. (Russian) *Optimal. Planirovanie Vyp.* 10 (1968), 61-68. 44 #7962

A problem of scheduling and its approximate solution. (Russian) *Optimal. Planirovanie Vyp.* 11 (1968), 51-59. 44 #3684

Tits, Jacques

* (with Bingen, Franz; Waelbroeck, Lucien) Séminaire sur Les Algebres de Banach, 1962/63. Centre Belge d'Algèbre et de Topologie. *Universite Libre de Bruxelles Faculte des Sciences, Institut de Mathematique, Brussels,* 1963. i + 145 *pp.* (A. B. Simon) 30 #5173

Groupes simples et géométries associées. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 197-221. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #179

Algebraic and abstract simple groups. *Ann. of Math.* (2) 80 (1964), 313-329. (J. Dieudonné) 29 #2259

Géométries polyédriques finies. *Rend. Mat. e Appl.* (5) 23 (1964), 156-165. (J. E. McLaughlin) 32 #1251

Sur les systèmes de Steiner associés aux trois "grands" groupes de Mathieu. *Rend. Mat. e Appl.* (5) 23 (1964), 166-184. (J. E. McLaughlin) 32 #1262

Sur une conjecture de L. Solomon. *C. R. Acad. Sci. Paris* 260 (1965), 6247-6249. (H. Freudenthal) 32 #1259

(with Borel, Armand) Groupes réductifs. *Inst. Hautes Études Sci. Publ. Math. No.* 27 (1965), 55-150. (F. D. Veldkamp) 34 #7527

(with Lazard, Michel) Domaines d'injectivité de l'application exponentielle. *Topology* 4 (1965/66), 315-322. (J. A. Wolf) 32 #2518

Classification of algebraic semisimple groups. *Algebraic Groups and Discontinuous Subgroups (Proc. Sympos. Pure Math., Boulder, Colo.* 1965*), pp.* 33-62. *Amer. Math. Soc., Providence, R. I.,* 1966. (R. Steinberg) 37 #309

Une propriété caractéristique des ovoïdes associés aux groupes de Suzuki. *Arch. Math. (Basel)* 17 (1966), 136-153. (P. Dembowski) 34 #3414

(with Bruhat, François) *BN*-paires de type affine et données radicielles. *C. R. Acad. Sci. Paris Ser. A - B* 263 (1966), A598-A601. (G. Harder) 39 #4160

(with Bruhat, François) Groupes simples résiduellement déployés sur un corps local. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A766-A768. G. Harder) 39 #4161

(with Bruhat, François) Groupes algébriques simples sur un corps local. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A822-A825. (G. Harder) 39 #4162

(with Bruhat, François) Groupes algébriques simples sur un corps local: Cohomologie galoisienne, décompositions d'Iwasawa et de Cartan. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A867-A869. (G. Harder) 39 #4163

Sur les constantes de structure et le théorème d'existence des algèbres de Lie semi-simples. *Inst. Hautes Études Sci. Publ. Math. No.* 31 (1966), 21-58. (W. Klingenberg) 35 #5487

Normalisateurs de tores. I. Groupes de Coxeter étendus. *J. Algebra* 4 (1966), 96-116. (Rimhak Ree) 34 #5942

Algèbres alternatives, algèbres de Jordan et algèbres de Lie exceptionnelles. I. Construction. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 233-237. (R. E. Block) 36 #2658

* Tabellen zu den einfachen Lie Gruppen und ihren Darstellungen. Lecture Notes in Mathematics, No. 40. *Springer-Verlag, Berlin-New York,* 1967. v + 53 *pp.* (S. Murakami) 36 #1575

(with Bruhat, F.) Groupes algébriques simples sur un corps local. *Proc. Conf. Local Fields (Driebergen,* 1966*), pp.* 23-26. *Springer, Berlin,* 1967. (A. Borel) 37 #6396

Formes quadratiques, groupes orthogonaux et algèbres de Clifford. *Invent. Math.* 5 (1968), 19-41. (S. Böge) 37 #6307

(with Waelbroeck, L.) The integration of a Lie algebra representation. *Pacific J. Math.* 26 (1968), 595-600. (R. C. Busby) 38 #5995

Le problème des mots dans les groupes de Coxeter. *Symposia Mathematica (INDAM, Rome,* 1967/68*), Vol.* 1*, pp.* 175-185. *Academic Press, London,* 1969. (J. E. Humphreys) 40 #7339

Représentations linéaires irréductibles d'un groupe réductif sur un corps quelconque. *J. Reine Angew. Math.* 247 (1971), 196-220. (J. Dieudonné) 43 #3269

Free subgroups in linear groups. *J. Algebra* 20 (1972), 250-270. (B. A. F. Wehrfritz) 44 #4105

Titsworth, Robert C. See Tausworthe, Robert C.

Titt, Edwin W.

On Hadamard's elementary solution of Bessel's equation. *J. Math. Mech.* 19 (1969/70), 875-878. (N. Hayek Calil) 41 #1195

Tittle, R. L.

(with Albert, G. E.) Nonnormality of linear combinations of normally distributed random variables. *Amer. Math. Monthly* 74 (1967), 583-585. (M. Skalsky) 35 #4959

Titulaer, U. M.

(with Glauber, R. J.) Correlation functions for coherent fields. *Phys. Rev.* (2) 140 (1965), B676-B682. (J. McKenna) 34 #5456

(with Van Kampen, N. G.) On the deduction of Carathéodory's axiom from Kelvin's principle. *Physica* 31 (1965), 1029-1032. (P. T. Landsberg) 33 #2112

Titus, Charles J.

The combinatorial topology of analytic functions on the boundary of a disk. *Acta Math.* 106 (1961), 45-64. (F. Norguet (Zbl 101, 155)) 29 #3652

(with Ullman, J. L.) An integral inequality with applications to harmonic mappings. *Michigan Math. J.* 10 (1963), 181-192. (John W. Green) 29 #3653

Characterizations of the restriction of a holomorphic function to the boundary of a disk. *J. Analyse Math.* 18 (1967), 351-358. (P. T. Church) 35 #3072

Tivari, B. M. L.

Real inversion and representaiton theorems for a generalised Laplace-Stieltjes transform. *Ranchi Univ. Math. J.* 1 (1970), 33-46. (G. Doetsch) 43 #3750

Tivončuk, V. I.

Application of the method of Ju. D. Sokolov to the solution of linear integral equations of mixed type. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 1014-1018. (H. P. Thielman) 30 #2304

An error bound for a variant of Ju. D. Sokolov's method of solving linear integral equations of Volterra type and equations of mixed type. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 1281-1284. (W. V. Petryshyn) 30 #2305

On the solution of linear integral equations of mixed type by means of a variant of the method of Ju. D. Sokolov. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 1559-1563. (H. P. Thielman) 30 #3347

Solution of linear integral equations of Volterra type and equations of mixed type by means of a variant of a method of Ju. D. Sokolov. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 628-635. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 33 #6317

The solution of linear integral equations of Volterra type by a variant of the method of Ju. D. Sokolov. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 77-88. (A. Haimovici) 32 #8083

On the solution of Volterra linear integral equations and equations of mixed type in L^p-space by a variant of the method of Ju. D. Sokolov. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 4, 133-139. (W. Gautschi) 33 #3062

A variant of the averaging method of functional corrections for solution of linear integral equations of mixed type. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1228-1238. (A. Haimovici) 34 #4841

An estimate of the error in M. Picone's method of solving systems of nonlinear Volterra integral equations. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR Ser. A* 1967, 876-878. (W. V. Petryshyn) 37 #2484

(with Tukalevs´ka, N. Ī.) A new method of approximate solution of Volterra integral equations. (Russian) *Mathematical Provisioning of Electronic Digital Computers and Effective Organization of the Computing Process (Proc. Seminar, Kiev, 1968). No. 2 (Russian), pp.* 102-109. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (J. Burlak) 39 #7366

A certain iteration method for the approximate solution of nonlinear integral equations of mixed type. (Russian) *Mathematical Phys. No.* 6 (1969), *pp.* 180-184. *Naukova Dumka, Kiev,* 1969. (L. Guggenbuhl) 41 #8950

The solution in the space L_2 of nonlinear integral equations of mixed type. (Russian) *Proc. Sem. Differential and Integral Equations, No. I (Russian), pp.* 123-129. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. (J. F. Heyda) 43 #848

The solution of nonlinear integral equations of mixed type by the method of averaging functional corrections. (Russian) *Differencial'nye Uravnenija* 5 (1969), 568-573. (L. von Wolfersdorf) 39 #4627

The solution of nonlinear integral equations with variable limits by the method of averaging of functional corrections. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 133-138. (St. I. Gheorghiţă) 39 #3264

Tiwari, Krishna

The universal complex over an algebra. *J. Indian Math. Soc. (N.S.)* 31 (1967), 11-22. (M. Barr) 37 #284

Derivation modules and complexes over an algebra. *J. Indian Math. Soc. (N.S.)* 31 (1967), 33-47. (S. Yuan) 37 #285

On complete ring of quotients. *J. Indian Math. Soc. (N.S.)* 31 (1967), 95-99 (1968). (S. Yuan) 37 #6277

Tiwari, R. N.

Analogue of Birkhoff's theorem in Schrödinger's unified field theory. *Tensor (N.S.)* 21 (1970), 345-348. (D. K. Sen) 42 #1485

An exact solution corresponding to a special field structure in Schrödinger's unified field theory. *Tensor (N.S.)* 22 (1971), 82-86. (C. Gilbert) 44 #3663

Tiwary, A. K.

On the quotients of indecomposable injective modules. *Canad. Math. Bull.* 9 (1966), 187-190. (L. R. McCulloh) 34 #4293

Injective hulls of semi-simple modules over regular rings. *Pacific J. Math.* 31 (1969), 247-255. (S. Greco) 41 #6834

Boolean completions as injective hulls of modules over Boolean rings. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 1, 116-121. (R. A. Melter) 43 #128

Tixier, Vincent

(with Salomaa, Arto) Two complete axiom systems for the extended language of regular expressions. *IEEE Trans. Computers* C-17 (1968), 700-701. (Authors' summary) 38 #4243

Tjablikov, S. V.

(with Moskalenko, V. A.) The method of quantum Green's functions in the theory of many-phonon transitions. (Russian) *Trudy Mat. Inst. Steklov.* 64 (1961), 267-283. (M. Blažek) 30 #898

* Методы квантовой теории магнетизма. (Russian) [Methods of the quentum theory of magnetism] *Izdat. "Nauka", Moscow,* 1965. 334 *pp.* (E. L. Hill) 31 #5584

(with Moskalenko, V. A.) A statistical-averages theorem for Pauli operators. *Dokl. Akad. Nauk SSSR* 158 (1964), 839-842 *(Russian); translated as Soviet Phycis Dokl.* 9 (1965), 891-893. (R. K. Pathria) 32 #929

Tjablikow, S. W. See Tjablikov, S. V.

Tjan, M. M.

On the question of the distribution of values of the Euler function $\phi(n)$. (Russian. Lithuanian and French summaries) *Litovs Mat. Sb.* 6 (1966), 105-119. (J. Kubilius) 34 #5780

Tjian, T. Y. Hans

Tabulation of percentage points and properties of $h_n{}^*$ distribution. *Skand. Aktuarietidskr.* 1964, 67-70 (1965). (Benjamin Epstein) 31 #5284

Tjon, J. A.

On the quantum statistical theory of relaxation in isolated spin systems. I, II. *Physica* 30 (1964), 1-16; *ibid.* 30 (1964), 1341-1364. (L. J. F. Broer) 32 #930

(with Levine, Michael; Wright, Jon) Nonsingular Bethe-Salpe equation. *Phys. Rev. Lett.* 16 (1966), 926-964. (J. M. Charap) 34 #1041

Tjøtta, Sigve

(with Lauvstad, V.; Naze, J.) Nonlinear interaction of two soundwaves. *Årbok Univ. Bergen Mat.-Natur. Ser.* 1964, *no.* 12, 24 pp. (1965). (N. Zitron) 32 #8650

Tjupa, V. G.

(with Sljahova, N. I.) On algorithms of Turing type. (Ukrainian. Russian summary) *Zbirnik Prac' z Občis. Mat. i Tehn.* 1 (1961), 31-44. (1 *fold-out*) (A. P. Ershov) 33 #3849

Tjuremskih, I. S.

(B)-properties of Hilbert spaces. (Russian) *Abstracts of Lectures of the Scientific Conference Dedicated to the Review of the Scientific Research of the Academic Year* 1962-1963 *(Russian), pp.* 113-114. *Kalinin. Gos. Ped. Inst., Kalinin,* 1964. (J. Korevaa 31 #5068

The *(B)*-property of Hilbert spaces. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 39 (1964), 53-64. (A. Pełczyński) 32 #8123

The Čebyšev property of a sequence of subspaces of a Banach space. (Russian) *Kalinin. Gos. Ped. Inst. Ucen. Zap.* 39 (1964), 73-75. (A. Pełczyński) 32 #8124

(with Andreev, V. I.) A certain application of the characteristic test for least deviating elements. (Russian) *Kalinin. Go Ped. Inst. Učen. Zap.* 52 (1967), 17-31. (C. de Boor) 38 #4877

A certain theorem of S. N. Bernšteĭn. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 123-129. (L. Zalcman) 37 #1870

The *B*-property and a certain criterion for the reflexivity of Banach spaces. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 130-145. (Z. Semadeni) 37 #4574

A certain theorem of approximation theory. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 254-257. *(errata insert)* (V. Nikol'skiĭ (RŽMat 1969 #1 B107)) 43 #5223

Certain questions on the integral approximation of functions of several variables. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 258-261. *(errata insert)* (S. Aljančić) 43 #3706

Tjurenkov, V. A.

An algorithm for finding the shortest path. (Russian) *Vyčisl. Sistemy No.* 6 (1963), 41-44. (B. Grünbaum) 32 #7454

Tjurin, A. N.

On the classification of two-dimensional fibre bundles over an algebraic curve of arbitrary genus. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 21-52. (E. Lluis) 29 #4762

The classification of vector bundles over an algebraic curve of arbitrary genus. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 657-688. (Andrzej Białynicki-Birula) 36 #166a

(with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.) Algebraic surfaces. (Russian) *Trudy Mat. Inst. Steklov.* 75 (1965), 1-215. (E. C. Dade) 32 #7557

Classification of n-dimensional vector bundles over an algebra curve of arbitrary genus. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1353-1366. (Andrzej Białynicki-Birula) 36 #166b

* (with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.) Algebraische Flächen. Redaktion I. R. Šafarevič. Mathematik und ihre Anwendungen in Physik und Technik Reihe A, Band 31. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1968. 303 *pp.* (Editors) 37 #6285

An analogue of the Torelli theorem for two-dimensional bundles over an algebraic curve of arbitrary genus. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 1149-1170. (H. Kurke) 41 #5368

Analogues of Torelli's theorem for multidimensional vector bundles over an arbitrary algebraic curve. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 338-365. (M. L. Laplaza) 42 #282

The Fano surface of a nonsingular cubic in P^4. *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1200-1208. (J. Čižmár) 43 #3274

The geometry of the Fano surface of a nonsingular cubic $F\subset P^4$, and Torelli's theorems for Fano surfaces and cubics. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 498-529. (J. Čižmár) 44 #2757

Tjurin, Ju. N.

The estimation of a distribution function. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 567-568. (I. I. Kotlarski) 43 #4200

Parametric hypothesis testing by nonparametric criteria. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 745-749. (W. Hoeffding) 43 #8190

Tjurina, G. N.

(with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurin, A. N.) Algebraic surfaces. (Russian) *Trudy Mat. Inst. Steklov.* 75 (1965), 1-215. (E. C. Dade) 32 #7557

On a type of contractible curves. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 529-531. (I. R. Porteous) 35 #6684

* (with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurin, A. N.) Algebraische Flächen. Redaktion I. R. Šafarevič. Mathematik und ihre Anwendungen in Physik und Technik Reihe A, Band 31. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1968. 303 *pp.* (Editors) 37 #6285

Absolute isolation of rational singularities, and triple rational points. (Russian) *Funkcional. Anal i Priložen.* 2 (1968), *no.* 4, 70-81. (Andrezej Białynicki-Birula) 39 #7136

The topological properties of isolated singularities of complex spaces of codimension one. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 605-620. (O. Forster) 37 #3053

The rigidity of rationally contractible curves on a surface. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 943-970. (D. Leiberman) 40 #149

Locally semi-universal flat deformations of isolated singularities of complex spaces. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 1026-1058. (A. Morimoto) 40 #5903

Resolution of singularities of flat deformations of double rational points. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 1, 77-83. (D. Lieberman) 42 #2031

(See also Arnol'd, V. I.; Gel'fand, I. M.; Manin, Ju. I.; Moĭšezon, B. G.; Novikov, S. P.; Šafarevič, I. R., 44 #6430)

Tjurina, I. I.

On Riemannian spaces with covariant constant Ricci tensor. (Russian) *Kolomen. Ped. Inst. Učen. Zap.* 8 (1964), 175-183 (1965). (A. Goetz) 33 #4862

(with Rozenfel'd, B. A.) Maximally mobile affinely connected spaces as spaces of constant curvature and their representations with help of algebras. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 74-87. (Z. Nádeník) 36 #3272

A-connections which can be defined by dual algebras. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 6 (73), 104-114. (I. Kolář) 39 #7523

T'juring, A. See Turing, Alan M.

Tjurnpu, H. See Türnpu, H.

Tjutjukin, V. K.

The optimal single-operation scheduling graph with machine tool back-up-men. (Russian) *Primenen. Mat. Èkonom. Vyp.* 5 (1969), 79-91. (A. Göpfert) 43 #2978

Optimization of the calendar time of manufacturing articles with equal succession of starting them on all machines. *Optimal. Planirovanie Vyp.* 16 (1970), 89-97. (A. Göpfert) 44 #6320

Finding optimal plans in multi-operation processes of product manufacture by the "branch and bound" method. (Russian) *Primenen. Mat. Èkonom. Vyp.* 6 (1970), 29-45. 42 #8883

(with Kuzin, B. I.) The traveling salesman problem with restriction of movement, its algorithm and economic application. (Russian) *Primenen. Mat. Èkonom. Vyp.* 6 (1970), 53-67. 42 #8876

Tkač, B. P.

A partial differential equation with retarded argument. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1796-1800. (L. E. Bobisud) 36 #3000

The periodic solutions of systems of partial differential equations with deviating argument of neutral type. (Russian) *Trudy Sem. Mat. Fiz. Nelineĭn. Koleban.* 1 (1968), *vyp.* 2, 237-252. (L. E. Bobisud) 43 #6608

The solution of an equation of the vibrating string type with time delay. (Russian) *Trudy Sem. Mat. Fiz. Nelineĭn. Koleban.* 1 (1968), *vyp.* 2, 252-258. (L. E. Bobisud) 43 #6609

Periodic solution of systems of partial differential equations of neutral type. (Russian) *Differencial'nye Uravnenija* 5 (1969), 735-748. (O. Vejvoda) 39 #4535

Periodic solutions of a countable system of differential equations with deviating argument of neutral type. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 73-85. (V. Lakshmikantham) 39 #3122

(with Mitropol's'kiĭ, Ju. O.) Periodic solutions of nonlinear systems of partial differential equations of neutral type. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 475-486. (T. Kisano) 40 #4620

The existence of periodic solutions of nonlinear partial differential equations of neutral type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 8 (99), 112-117. (L. E. Bobisud) 43 #3668

The periodic solutions of systems of nth-order differential equations with deviating argument of neutral type. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 64-75. (H. Baumgärtel) 41 #2172

Tkačenko, E. P.

(with Koroljuk, V. S.) Sojourn time of a Poisson process in a strip with a delaying screen. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 513-516, 572. (M. Skalsky) 41 #2788

(with Koroljuk, V. S.) Asymptotic expansion of the generating function of the time that a Poisson process stays in a strip with a delaying screen. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 315-317, 381. (Ju. M. Ryžov) 43 #8142

(with Koroljuk, V. S.) Asymptotic expansions for the generating function of the passage-time of a generalized Poisson process in a strip with delaying screen. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 5 (1971), 62-70. (D. A. Darling) 44 #4813

Tkačenko, Ju. T.

On sets of non-negative integers not containing an arithmetic progression of length p. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46), 169-171. (R. Finkelstein) 31 #5855

Tkačenko, V. A.

(with Suharevskiĭ, I. V.) The asymptotic solution of the problem of the torsion of thin-shelled cylinders. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* (4) 28 (1961), 163-172. (K. Soljanik-Krassa (RŽMat 1963 #4 B305)) 40 #3767

On the spectral analysis of the one-dimensional Schrödinger operator with a periodic complex-valued potential. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 289-291. (P. K. Ghosh) 29 #468

(with Ljubič, Ju. I.) Uniqueness and approximation theorems for a local Laplace transformation. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 273-276. (L. Berg) 32 #8051

On conditions of discreteness of the spectrum of monomial differential operators. (Russian) *Differencial'nye Uravnenija* 2 (1966), 634-639. (Editors) 33 #1533

(with Ljubič, Ju. I.) Theory and certain applications of the local Laplace transform. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 416-437. (L. Berg) 33 #7890

(with Ljubič, Ju. I.) A new proof of the fundamental theorem on functions periodic in the mean. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 4 (1967), 162-170. (M. Dostál) 37 #4506

(with Ljubič, Ju. I.) On a Floquet theory for equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 5 (1969), 648-656. (L. K. Jackson) 39 #5902

(with Ljubič, Ju. I.) The reconstruction of infinitely differentiable functions from the values of their derivatives at zero. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 9 (1969), 134-141. (N. K. Nikolskiĭ) 42 #6597

(with Ljubič, Ju. I.) A quasianalyticity criterion for abstract operators. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 772-774. (H. Langer) 41 #5995

Tkačev, M. I.

A formula for the number of decompositions of numbers into sums of a definite form. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 3 (1959), 231-235. 44 #170

Tkačev, V. F.

A new theorem on k-twins, analogous to Wilson's theorem on prime numbers. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 174-175. (A. Schinzel) 32 #1159; erratum, 32, p. 1754

Tkačeva, G. D.

(with Filippov, I. G.) A numerical solution of a certain nonstationary problem on the motion of a rigid barrier in a compressible fluid. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 474-478. (M. Yanowitch) 40 #8340

Tkachuk, G. I. See Tkačuk, G. Ī.

Tkačuk, G. Ī.

(with Kas'janjuk, S. A.) A property of functions with positive real part. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 1 (1965), 224-227. (V. Linis) 34 #4508

Tkačuk, G. P.

Certain rigidity conditions for surfaces of revolution of mixed curvature. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1962, *no.* 5, *Ser. Mat. Meh. vyp.* 2, 102-105. 34 #3453

Infinitesimal sliding deformations of certain surfaces of revolution whose curvature changes sign. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1969, *no.* 11, *Ser. Mat. Meh.*, 81-86. 40 #6396

Tkalič, V. S.

A stationary problem in magnetohydrodynamics when two coordinates are interdependent; the transformation of Chaplygin. (Russian) *Inž. Ž.* 2 (1962), *no.* 3, 43-53. (H. Hasimoto) 29 #1861

A stationary problem in magnetohydrodynamics where two coordinates are related; collision of jets of conducting fluid. (Russian) *Izv. Akad. Nauk SSSR Otd. Tehn. Nauk Meh. i Mašinostr.* 1962, *no.* 5, 32-38. (C. K. Chu) 29 #4403

Tkebučava, G. E.

The order of growth of the powers of a lacunary algebraic base in the space $C(0,1)$. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 59 (1970), 218-284. (J. Friberg) 44 #5667

Tlupov, G. I.

On angular shells in Lobačevskiĭ space. (Russian) Proceedings of the Annual Scientific Conference (Nal'chik, 1965). *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. No.* 24 (1965), 279-281. (E. J. F. Primrose) 35 #7193

To, Ting On

A note of correction to a theorem of W. E. Bonnice and R. J. Silverman. *Trans. Amer. Math. Soc.* 139 (1969), 163-166. (Ti Yen) 39 #757

On the Hahn-Banach extension property. *Canad. Math. Bull.* 13 (1970), 9-13; *corrections, ibid.* 13 (1970), 526. (W. E. Bonnice) 43 #875

Toan, T. N.

Aspect énergétique de l'efficacité du codage. *Rev. CETHEDEC No.* 22 (1970), 47-58. (R. J. McEliece) 43 #4550

Tobach, Ethel

(with Smith, Mark; Rose, George; Richter, Donald) A table for making rank sum multiple paired comparisons. *Technometrics* 9 (1967), 561-567. (E. H. Lehman, Jr.) 36 #2281

Tobak, Murray

An inverse problem for a class of nonlinear differential equations. *J. Math. Anal. Appl.* 15 (1966), 330-333. (S. P. Diliberto) 33 #2883

Tobey, M. D.

A two-parameter homogeneous mean value. *Proc. Amer. Math. Soc.* 18 (1967), 9-14. (Z. Daróczy) 35 #1742

(with Carlson, B. C.) A property of the hypergeometric mean value. *Proc. Amer. Math. Soc.* 19 (1968), 255-262. (L. J. Slater) 36 #5401

Tobey, R.

(with Sconzo, P.; LeSchack, A. R.) Symbolic computation of f and g series by computer. *Astronom. J.* 70 (1965), 269-271. (Authors' summary) 31 #5665

Tobias, Filbert

(with Morrison, Milton) Some statistical characteristics of a peak to average ratio. *Technometrics* 7 (1965), 379-385. (S. Kotz) 33 #6738

Tobias, Leonard

(with Kushner, Harold J.) On the stability of randomly sampled system. *IEEE Trans. Automatic Control* AC-14 (1969), 319-324. (From the authors' summary) 40 #3936

Tobias, T.

Some approximation formulas, best possible in the sense of Wiener measure. I, II. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 14 (1965), 64-78; *ibid.* 14 (1965), 203-213. (E. J. Akutowicz) 32 #2812

Approximate calculation of the Wiener integral. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 14 (1965), 214-222. (Judah Rosenblatt) 33 #5829

On a certain quadrature formula for calculating Wiener's integral with weight. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 15 (1966), 17-27. (From the author's summary) 33 #1969

The compound problem of the theory of statistical decisions with quadratic loss function. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 16 (1967), 181-185. (K. Dietz) 35 #7481

Stopping rules with monotone risk function. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 241-244. (R. Lipcer (RŽMat 1970 #8 V79)) 42 #8551

The problem of finding optimal stopping rules for a Wiener process on a finite interval of time. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 20 (1971), 121-128. (J. L. Doob) 44 #6041

Tobin, Seán J.

(with Gupta, Narain D.) On certain groups with exponent four. *Math. Z.* 102 (1967), 216-226. (G. Zappa) 36 #5220

(with Gupta, N. D.; Newman, M. F.) On metabelian groups of prime-power exponent. *Proc. Roy. Soc. Ser. A* 302 (1968), 237-242. (R. Schmidt) 36 #5222

Tobocman, W.

(with Bilhorn, D. E.; Foldy, L. L.; Thaler, R. M.; Madsen, V. A.) Remarks concerning reciprocity in quantum mechanics. *J. Mathematical Phys.* 5 (1964), 435-441. (J. McKenna) 29 #6824

Quasiparticles and projection operators. *Phys. Rev.* (2) 136 (1964), B1825-B1830. (J. M. Jauch) 31 #2995

(with Nagarajan, M. A.) The equivalence of elementary and composite particles. *Phys. Rev.* (2) 137 (1965), B1236-B1239. (B. A. Lippmann) 32 #8824

(with Nagarajan, M. A.) Boundary-condition constraints for the shell model: A method for nuclear structure and nuclear reactions. *Phys. Rev.* (2) 138 (1965), B1351-B1355. (K. Kumar) 32 #3661

Tobolsky, Arthur V.

The microcanonical ensemble. *Amer. J. Phys.* 32 (1964), 799-802. (J. S. Goldstein) 32 #3709

Toda, Azuma

(with Itoh, Chiaki) Pole approximation and unitary symmetry in nonleptonic hyperon decays. *Progr. Theoret. Phys.* 32 (1964), 606-618. (S. P. Rosen) 31 #5530

Toda, Hirosi

(with Mimura, Mamoru) Homotopy groups of SU(3), SU(4) and Sp(2). *J. Math. Kyoto Univ.* 3 (1963/64), 217-250. (R. Bott) 29 #6495a

(with Mimura, Mamoru) Homotopy groups of symplectic groups. *J. Math. Kyoto Univ.* 3 (1963/64), 251-273. (R. Bott) 29 #6495b

A survey of homotopy theory. (Japanese) *Sûgaku* 15 (1963/64), 141-155. (N. Shimada) 29 #6494

(with Araki, Shôrô) Multiplicative structures in mod q cohomology theories. I. *Osaka J. Math.* 2 (1965), 71-115. (J. F. Adams) 32 #449

(with Araki, Shôrô) Multiplications in mod q cohomology theories. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto, 1965), pp.* 1-5. *Nippon Hyoronsha, Tokyo,* 1966. (A. H. Copeland, Jr.) 36 #881

(with Kambe, Tsunekazu; Matsunaga, Hiromichi) A note on stunted lens space. *J. Math. Kyoto Univ.* 5 (1966), 143-149. (J. F. Adams) 32 #8339

On iterated suspensions. I, II. *J. Math. Kyoto Univ.* 5 (1966) 87-142, 209-250. (I. M. James) 35 #1024

(with Araki, Shôrô) Multiplicative structures in mod q cohomology theories. II. *Osaka J. Math.* 3 (1966), 81-120. (J. F. Adams 34 #2003

(with Peterson, Franklin P.) On the structure of $H^*(BSF; Z_p)$. *J. Math. Kyoto Univ.* 7 (1967), 113-121. (C. N. Lee) 37 #5878

An important relation in homotopy groups of spheres. *Proc. Japan Acad.* 43 (1967), 839-842. (P. S. Green) 37 #5872

On iterated suspensions. III. *J. Math. Kyoto Univ.* 8 (1968), 101-130. (I. M. James) 38 #714

Extended p-th powers of complexes and applications to homotopy theory. *Proc. Japan Acad.* 44 (1968), 198-203. (P. S. Green) 37 #5873

(with Sugawara, Tamio) Squaring operations on truncated polynomial algebras. *Japan. J. Math.* 38 (1969), 39-50. (W. D. Barcus) 41 #4530

(with Mimura, Mamoru) Cohomology operation and homotopy of compact Lie groups. I. *Topology* 9 (1970), 317-336. (R. E. Mosher) 42 #1144

Mod p decomposition of Lie groups. *H-Spaces (Actes Réunion Neuchâtel, 1970), pp.* 20-24. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin,* 1971. (Author's introduction) 44 #7550

(with Mimura, Mamoru) On p-equivaleunce and p-universal spaces. *Comment. Math. Helv.* 46 (1971), 87-97. (E. B. Curtis) 44 #2231

On spectra realizing exterior parts of the Steenrod algebra. *Topology* 10 (1971), 53-75. (A. Liulevicius) 42 #6814

Toda, Nobushige

Étude des fonctions méromorphes au voisinage d'un point-frontière irrégulier. *Bull. Sci. Math.* (2) 89 (1965), 93-102. (J. L. Doob) 32 #5886

Sur l'allure des fonctions méromorphes. *Nagoya Math. J.* 26 (1966), 173-181. (J. L. Doob) 36 #1661

(with Zinno, Toshiko) On Julia's exceptional functions. *Proc. Japan Acad.* 42 (1966), 1120-1121. (W. Schneider) 35 #6834

Sur les fonctions méromorphes aux limites fines. *Nagoya Math. J.* 29 (1967), 61-68. (L. L. Helms) 35 #5626

Sur l'ensemble d'adhérence fine des fonctions algébroïdes. *Nagoya Math. J.* 30 (1967), 295-302. (M. Ohtsuka) 35 #5627

A remark on Ikegami's paper "On the non-minimal Martin boundary points". *Proc. Japan Acad.* 43 (1967), 308-309. (H. Bauer) 36 #2821

Note sur l'ensembel d'adhérence fine des fonctions algébroïdes. *Nagoya Math. J.* 32 (1968), 331-336. (M. H. Heins) 37 #6457

Sur quelques fonctions méromorphes d'ordre nul dans $|z| < \infty$. *Tôhoku Math. J.* (2) 20 (1968), 384-393. (J. Clunie) 38 #4686

Sur les directions de Julia et de Borel des fonctions algebroides. *Nagoya Math. J.* 34 (1969), 1-23. (G. R. MacLane) 41 #490

Comparison between $T(r,f)$ and log $M(r,f)$. *Tôhoku Math. J.* (2) 21 (1969), 291-296. (T. Kövari) 40 #357

Sur quelques fonctions entières ou méromorphes à l'égard de la conjecture de Paley. *Tôhoku Math. J.* (2) 21 (1969), 654-667. (A. Baillette) 41 #5624

Sur une relation entre la croissance et le nombre de valeurs déficientes de fonctions algébroïdes ou de systèmes. *Kōdai Math. Sem. Rep.* 22 (1970), 114-121. (Y. Kusunoki) 41 #8691

Sur la croissance de fonctions algébroides à valeurs déficientes. *Kōdai Math. Sem. Rep.* 22 (1970), 324-337. (Y. Kusunoki) 42 #3278

Sur les valeurs déficientes de fonctions algébroides à 2 branches. *Kōdai Math. Sem. Rep.* 22 (1970), 501-514. (Kenneth O. Leland) 43 #524

Sur les directions de Julia des fonctions algébroïdes dans $|z| < \infty$. *Nagoya Math. J.* 37 (1970), 53-60. (L. R. Sons) 41 #2033

Sur les combinaisons exceptionnelles de fonctions holomorphes; applications aux fonctions algéborïdes. *Tôhoku Math. J.* (2) 22 (1970), 290-319. (L. R. Sons) 42 #6238

Sur le nombre de combinaisons exceptionnelles; applications aux fonctions algébroïdes. *Tôhoku Math. J.* (2) 22 (1970), 480-491. (Y. Kusunoki) 43 #7647

On a modified deficiency of meromorphic functions. *Tôhoku Math. J.* (2) 22 (1970), 635-658. (A. Edrei) 43 #3453

Sur une généralisation du théorème de Picard-Borel-Rémoundos. *Tôhoku Math. J.* (2) 23 (1971), 105-115. (J. Winkler) 44 #2932

Todd, Christopher

Stone-Weierstrass theorems for the strict topology. *Proc. Amer. Math. Soc.* 16 (1965), 654-659. (I. Glicksberg) 31 #3891

Todd, J. A.

A representation of the Mathieu group M_{24} as a collineation group. *Ann. Mat. Pura Appl.* (4) 71 (1966), 199-238. (T. G. Room) 34 #2713

Abstract definitions for the Mathieu groups. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 421-424. (A. P. Street) 42 #7759

Todd, John

The problem of error in digital computation. *Error in Digital Computation, Vol. 1 (Proc. Advanced Sem. Conducted by Math. Res. Center, U.S. Army, Univ. Wisconsin, Madison, Wis.,* 1964*), pp.* 3-41. *Wiley, New York,* 1965. (J. G. Herriot) 31 #2841

On smallest isolated Gerschgorin disks for eigenvalues. *Numer. Math.* 7 (1965), 171-175. (F. L. Bauer) 31 #6363

(with Gaier, Dieter) On the rate of convergence of optimal ADI processes. *Numer. Math.* 9 (1966/67), 452-459. (D. M. Young, Jr.) 35 #7603

Inequalities of Chebyshev, Zolotareff, Cauer, and W. B. Jordan. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio,* 1965*), pp.* 321-328. *Academic Press, New York,* 1967. (C. W. Clenshaw) 36 #5582

Optimal ADI-Parameters. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach,* 1965*), pp.* 58-69. *Birkhäuser, Basel,* 1967. (N. Gastinel) 37 #4937

On condition numbers. (French summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No.* 165*, Besançon,* 1966*), pp.* 141-159. *Éditions Centre Nat. Recherche Sci., Paris,* 1968. (Author's summary) 37 #6024

(See also Taussky, Olga, 42 #3020)

Todd, L.

Evolution of the trans-Alfvénic normal shock in a gas of finite electrical conductivity. *J. Fluid Mech.* 18 (1964), 321-336. (O. P. Bhutani) 32 #2011

The evolution of trans-Alfvénic shocks in gases of finite electrical conductivity. *J. Fluid Mech.* 21 (1965), 193-209. (E. G. Broadbent) 31 #1872

Todd, O. See Taussky, Olga.

Todd-Taussky, O. See Taussky, Olga.

Tødenes, Øystein

On the numerical solution of the diffusion equation. *Math. Comp.* 24 (1970), 621-627. (W. F. Ames) 43 #1455

Todeschini, Bartolomeo

Azioni dinamiche di una corrente comprimibile su un'ala finita. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 23-46. (N. Tipei) 30 #807

Fronti d'onda in miscugli di gas non reagenti. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 482-498. (N. Tipei) 30 #811

Teoremi di unicita sull'aerodinamica di miscugli gassosi. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 421-437. (L. Dragoş) 32 #3405

Sul problema di Rayleigh. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 189-193. (D. R. Breach) 32 #702

Small-perturbation theory of steady plane relativistic flows. (Italian summary) *Meccanica—J. Italian Assoc. Theoret. Appl. Mech.* 5 (1970), 17-21. (Author's summary) 41 #5000

Todor, Liviu I.

Euclidean distance of a matrix to the set of singular matrices. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 315-319. (Y. Lehrer-Ilamed) 35 #2910

On the method of Jacobi for solving the problem of proper vectors and values for a symmetric matrix. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 637-640. (A. S. Householder) 35 #1200

The problem of scaling of data for the application of the method of Jacobi, respectively Givens, for the solution of the problem of proper values and proper vectors for symmetric matrices. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 41-46. (RŽMat 1967 #10 B741) 42 #4000

Orthogonal matrix which is closest to a given real matrix B. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 363-370. (V. Pereyra) 39 #3688

On the method of Gauss for solving linear systems of large dimension and on the inverses of large matrices. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 371-385. (A. S. Householder) 39 #6504

Todorinov, Simeon

A class of cyclically monotonic functions. (Russian) *Publ. Math. Debrecen* 12 (1965), 31-32. (R. P. Boas, Jr.) 32 #4231

(with Kosstova, M.) Ein Analogon des Satzes von Hölder bei ternärer Ordnungsrelation. *Math. Nachr.* 30 (1965), 271-274. (G. Sabidussi) 33 #3980

A certain problem of Fuchs. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 611-613. (J. Jakubík) 43 #4743

A certain class of partially ordered groups. (Russian) *Algebra i Logika* 10 (1971), 76-80. (J. Jakubík) 44 #3937

Todorov, Ivan T.

(with Logunov, A. A.; Liu, I-Ch'en; Černikov, N. A.) Dispersion relations and analytic properties of partial wave amplitudes in perturbation theory. (Russian. English summary) *Ukrain. Mat. Ž.* 15 (1963), 250-276. (R. L. Warnock) 29 #963

Analytic properties of matrix elements in perturbation theory. (Russian) *First Math. Summer School, Part II (Russian), pp.* 321-347. *Izdat. "Naukova Dumka", Kiev,* 1964. (I. Białynicki-Birula) 32 #5137

(with Logunov, A. A.; Nguyen van Hieu; Hrustalev, O. A.) Asymptotic relations between cross sections in local field theory. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1079-1089 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 732-738. (F. Calogero) 31 #5485

(with Logunov, A. A.; Nguyen van Hieu) Asymptotic relations between scattering amplitudes in local field theory. *Ann. Physics* 31 (1965), 203-234. (F. R. Halpern) 31 #1917

Der axiomatische Zugang zur Quantenfeldtheorie. *Fortschr. Physik* 13 (1965), 649-700. (K. Hepp) 33 #3649

(with Kadyševskiĭ, V. G.; Muradjan, R. M.; Tavhelidze, A. N.) SU(6)-symmetry and higher angular momenta. *Phys. Lett.* 15 (1965), 180-182. (S. L. Glashow) 32 #893

(with Kadyševskiĭ, V. G.; Muradjan, R. M.; Tavhelidze, A. N.) Relativistic generalization of SU(6)-symmetry. *Phys. Lett.* 15 (1965), 182-184. (W. D. McGlinn) 32 #5218

(with Fakirov, D. G.; Struminskiĭ, B. V.) Group SU(12) as a generalization of the symplectic and spin symmetries. *Phys. Lett.* 17 (1965), 342-344. (R. Mirman) 32 #3636

(with Nikolov, A. V.) Mass formulae in the inhomogeneous SU(6,6). group. (Russian. English summary) *B''lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Fiz. Inst. s Aneb* 15 (1966), 185-197. (K. R. Parthasarathy) 43 #1532

(with Kadyševskiĭ, V. G.) The ISL(6) symmetry group. Representations and invariants. *Jadernaja Fiz.* 3 (1966), 135-144 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 96-102. (R. Cirelli) 34 #8766

(with Kadyševskiĭ, V. G.) Redefinition of translations for the ISL(6) symmetry group. *Jadernaja Fiz.* 3 (1966), 366-371 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 263-266. (R. Cirelli) 34 #8767

Problems in the theory of infinite-component fields (Lectures at the Spring School on Elementary Particle Theory, Varna, 1968). (Russian) *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna,* 1968*), pp.* 229-254. *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (K. Kumar) 43 #1562

(with Oksak, A. I.) Invalidity of TCP-theorem for infinite-component fields. *Comm. Math. Phys.* 11 (1968/69), 125-130. (D. A. Uhlenbrock) 39 #1185; erratum, 39, p. 1594

(with Oksak, A. I.) On the covariant structure of the two-point function. *Comm. Math. Phys.* 14 (1969), 271-304. (W. Güttinger) 41 #7972

(with Zaĭkov, R. P.) Spectral representation of the covariant two-point function and infinite-component fields with arbitrary mass spectrum. *J. Mathematical Phys.* 10 (1969), 2014-2019. (D. Lurié) 41 #4935

(with Mack, G.) Irreducibility of the ladder representations of U(2,2) when restricted to the Poincaré subgroup. *J. Mathematical Phys.* 10 (1969), 2078-2085. (Gerald Rosen) 40 #3816

Todorov, K.

(with Diamandiev, V.) Optimal trajectories in reactive motion. (Bulgarian. Russian summary) *Annuaire Univ. Sofia Fac. Math.* 57 (1962/63), 381-391 (1964). (S. J. Zaroodny) 33 #6895

Todorov, Pavel

Über den Radius des Schlichtheitskreises einer Klasse meromorpher Funktionen. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 869-876. (E. P. Merkes) 32 #4274

The univalence of a class of meromorphic functions. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 285-286. (T. Kubo) 31 #2393

The radius of univalence of a class of meromorphic functions. (Russian) *Mat. Vesnik* 2(17) (1965), 197-199. (Z. Rubinstein) 33 #5872

On the radius of univalence of a certain class of meromorphic functions. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 3, 135-137. (J. G. Krzyż) 32 #5864

On the radius of univalence for a certain class of meromorphic functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 162-163. (Z. Lewandowski) 33 #4252

Über den Radius des Schlichtheitskreises einer Klasse meromorpher Funktionen. (Italian and English summaries) *Rend. Accad. Sci. Fis. Mat. Napoli* (4) 32 (1965), 108-115. (Editors) 34 #6068

Über den Radius des Schlichtheitskreises einer Klasse rationaler Funktionen. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 174 (1965), 559-566. (E. P. Merkes) 34 #6069

Über die Polstellen und den Radius des Schlichtheitskreises der meromorphen Klasse ϕ. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 52 (1966), 799-804. (E. P. Merkes) 34 #6070

On a class of schlicht meromorphic functions. (Russian. Czech and English summaries) *Časopis Pěst. Mat.* 91 (1966), 77-79. (A. W. Goodman) 32 #7737

The poles and the radius of circular univalence of the meromorphic class Φ. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 532-534. (Z. Lewandowski) 33 #4253

Über den Radius des Schlichtheitskreises einer Klasse meromorpher Funktionen. *Math. Nachr.* 31 (1966), 379-386. (S. M. Shah) 33 #5873

Über den Radius des Schlichtheitskreises einer Klasse meromorpher Funktionen. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 95-101. (E. Netanyahu) 33 #7524

On the theory of the Riccati equation. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 1, 137-139. (George Biriuk) 33 #4357

Ueber die Moeglichkeiten einer schlichten konformen Abbildung des Einheitskreises durch die hypergeometrische Funktion von Gauss. (English summary) *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 432-441. (F. W. Stallmann) 36 #6604

On the theory of schlicht mappings by means of the meromorphic class Φ. (Russian) *Mat. Vesnik* 4(19) (1967), 393-398. (Editors) 37 #3000

Zur Theorie der analytischen positiven und schlichten konformen Abbildungen durch zusammengefasste ganze und meromorphe Funktionen mit einer endlichen Anzahl Nullstellen und Polstellen. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 512-526. (E. P. Merkes) 38 #6043

On the theory of univalent mappings. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 567. (P. L. Duren) 37 #5375

On the theory of analytic positive and univalent conformal mappings by means of generalized entire and meromorphic functions with a finite number of zeros and poles. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 121-129. (Editors) 41 #446

On the theory of univalent conformal mappings that are realizable by meromorphic functions with simple poles and positive residues. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 416-422. (A. W. Goodman) 42 #1992; errata, 43, p. 1696

On the theory of schlicht conformal mappings that are realized by certain Nevanlinna classes of analytic functions. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 118-122. (E. Złotkiewicz) 43 #6421

Todorović, P.

Statistical sets of random structure. (Polish and Russian summaries) *Zastos. Mat.* 8 (1966), 213-219. (C. H. Kraft) 36 #6030

A stochastic process of monotonous sample functions. *Mat. Vesnik* 4(19) (1967), 149-158. (J. Bass) 36 #7195

On some problems involving random number of random variables. *Ann. Math. Statist.* 41 (1970), 1059-1063. (V. K. Rohatgi) 41 #6293

Todorow, Pawel. See Todorov, Pavel.

Toennies, J. P.

(with Pauly, H.) The study of intermolecular potentials with molecular beams at thermal energies. *Advances in Atomic and Molecular Physics, Vol.* 1, *pp.* 195-344. *Academic Press, New York,* 1965. (A. Dalgarno) 31 #4492

Toeplitz, Otto

(See Behnke, Heinrich; Köthe, Gottfried, 29 #5709)

* Sayilar ve şekiller. Matematik meraklilsti için matematik düşünce örnekleri. (Turkish) [Numbers and figures. Samples of mathematical reflections for those fond of mathematics] Translated by Orhan Ş. İçen. Turkish Mathematical Society Publications, No. 25. *Türk Matematik Derneği, Istanbul,* 1964. viii + 279 *pp.* (Editors) 37 #5065

* (with Rademacher, H.) Von Zahlen und Figuren. Proben mathematischen Denkens für Liebhaber der Mathematik. Nachdruck. Heidelberger Taschenbücher, Band 50. *Springer-Verlag, Berlin-New York,* 1968. ix + 164 *pp.* (Editors) 40 #5366

Toft, Bjarne

* Some contributions to the theory of colour-critical graphs. Doctoral dissertation, University of London, 1971. Various Publications Series, No. 14. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. i + 157 *pp. (not consecutively paged)* (B. Manvel) 43 #6134

On the maximal number of edges of critical k-chromatic graphs. *Studia Sci. Math. Hungar.* 5 (1970), 461-470. (F. Harary) 44 #2664

Togashi, Akiyo

(with Uchiyama, Saburô) On the representation of large even integers as sums of two almost primes. I. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 60-68. (H. Gupta) 29 #3420

Toger, A. V.

The complexity of certain functional classes. *Dokl. Akad. Nauk SSSR* 199 (1971), 789-791 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1197-1200. (Toby Berger) 44 #5228

Togino, Kazuto

Automata and sequence control. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 560-565. 42 #4338

Togliatti, Eugenio Giuseppe

Sulle curve piane di larghezza costante. *Period. Mat.* (4) 46 (1968), 359-371. (L. A. Santaló) 38 #6457

Leonard Roth. *Boll. Un. Mat. Ital.* (4) 3 (1970), 326-332. (Editors) 41 #5177

Tognetti, Mario

Sulle matrici simmetriche che possono ridursi a forma diagonale con una stessa sostituzione ortogonale. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 730-736. (R. F. Rinehart) 41 #1763

Tognoli, Alberto

Osservazioni sulle applicazioni continue fra varietà topologiche. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 67-85. (A. Aeppli) 29 #2811

Un teorema di unicità per le teorie dell'omologia. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 265-275. (A. Aeppli) 31 #6225

Osservazioni sulle famiglie di funzioni continue su spazi topologici e condizioni di metrizzabilità. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 287-308; *errata, ibid.* (2) 15 (1966), 381; 38 1654. (W. W. Comfort) 35 #7287

Proprietà globali degli spazi analitici reali. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 460-463. (C.-C. Hsiung) 36 #2174

Errata: "Osservazioni sulle famiglie di funzioni continue su spazi topologici e condizioni de metrizzabilità". *Rend. Circ. Mat. Palermo* (2) 15 (1966), 381. (W. W. Comfort) 38 #1654

Proprietà globali degli spazi analitici reali. *Ann. Mat. Pura Appl.* (4) 75 (1967), 143-218. (H. Röhrl) 38 #4714

(with Tomassini, G.) Teoremi d'immersione per gli spazi analitici reali. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 575-598. (C.-C. Hsiung) 37 #927

Sulla classificazione dei fibrati analitici reali. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 709-743. (C. B. Allendoerfer) 37 #928 (E)

Sulla classificazione dei fibrati analitici reali. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 43 (1967), 18-20. (C.-C. Hsiung) 38 #2802

Errata a: "Sulla classificazione dei fibrati analitici reali". *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 159-161. (C. B. Allendoerfer) 37 #4823

L'analogo del teorema delle matrici olomorfe invertibili nel caso analitico reale. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 527-558. (Gerd Fischer) 39 #4870

Le varietà analitiche reali, come spazi omogenei. *Boll. Un. Mat. Ital.* (4) 1 (1968), 422-426. (H. W. Guggenheimer) 37 #6961

Immagine di uno spazio analitico reale per un'applicazione analitica. *Ricerche Mat.* 17 (1968), 79-94. (C.-C. Hsiung) 39 #6337

Sulla classificazione dei fibrati analitici reali E-principali. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 75-86. (A. Aeppli) 39 #3519

(with Lazzeri, Fulvio) Alcune proprietà degli spazi quasi algebrici. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 653-658. (Gerd Fischer) 41 #7152

Un procedimento per raffinare una topoligia. *Boll. Un. Mat. Ital.* (4) 2 (1969), 690-695. (S. Swaminathan) 41 #2607

Some results in the theory of real analytic spaces. *Espaces Analytiques (Seminaire, Bucharest,* 1969*), pp.* 149-157. *Editura Acad. R.S.R., Bucharest,* 1971. (Y.-T. Siu) 44 #1836

Tôgô, Shigeaki

Derivations of Lie algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 133-158. (W. G. Lister) 31 #3547

On support theorems. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 43-49. (J. Peetre) 31 #5088

Lie algebras which have few derivations. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 29-41. (W. G. Lister) 32 #168

(with Shiraishi, Risai) Note on F-operators in locally convex spaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 243-251. (H. H. Schaefer) 33 #1741

Derivations of Lie algebras. *Bull. Amer. Math. Soc.* 72 (1966), 690-692. (G. Leger) 33 #2694

Dimensions of the derivation algebras of Lie algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 17-23. (G. Leger) 36 #226

Formal Lie groups. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Sendai, 1967) (Japanese)*, pp. 13-21. *Math. Inst., Tôhoku Univ., Sendai,* 1967. (M. Nagata) 44 #218

On some properties of $\mathfrak{t}(n,\Phi)$ and $\mathfrak{f}\mathfrak{t}(n,\Phi)$. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 35-58. (G. Leger) 36 #227

Outer derivations of Lie algebras. *Trans. Amer. Math. Soc.* 128 (1967), 264-276. (G. Leger) 35 #4270

On a class of Lie algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 55-83. (V. K. Balachandran) 39 #275

Note on outer derivations of Lie algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 33 (1969), 29-40. (G. Leger) 39 #6937

A theorem on characteristically nilpotent algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 33 (1969), 209-212. (H. P. Allen) 41 #3546

Tohma, Y.

Decompositions of logical functions using majority decision elements. *IEEE Trans. Electronic Computers* EC-13 (1964), 698-705. (C. C. Elgot) 31 #4694

Toidze, V. A.

Mapping of certain surfaces onto a plane in the generalized method of two images. (Russian) *Gruzin. Politehn. Inst. Trudy* 1965, *no.* 6 (104), 11-16. 33 #3167

Questions of metrization of the space in the generalized method of two images. (Russian) *Gruzin. Politehn. Inst. Trudy* 1965, *no.* 6 (104), 17-21. 33 #3168

Tokaci, Emil

(with Graciunas, Petre; Grecu, Anatole) Su alcuni risultati concernenti le definizioni attuali delle distribuzioni. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 207-210. (J. Horváth) 34 #604

On the equations of analytical mechanics for the case of percussed material systems. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1129-1138. (N. D. Sengupta) 35 #6396

Tokad, Yilmaz

(with Koenig, H. E.) State models of systems of multi-terminal linear components. *IEEE Internat. Convention Record* 1964, *pt.* 1, 318-329. (Authors' summary) 37 #7214

Some extension of the application of topological formulas. *IEEE Trans. Circuit Theory* CT-13 (1966), 332-335. (S. L. Hakimi) 42 #5731

(with Jambotkar, C. G.) Realisation of third-order matrixes—a new approach. (Turkish summary) *İstanbul Tek. Üniv. Bül.* 21 (1968), *no.* 1, 53-74. (Authors' summary) 38 #4208

(with Jambotkar, C. G.) Realization of *n*th-order matrices with two-tree port structures. *J. Franklin Inst.* 288 (1969), 245-260. (Authors' summary) 40 #7025

Tokar, S. S.

(with Lomsadze, Ju. M.) A close connection between the nonrelativistic partial amplitude and the trajectories of its poles in the λ plane. *Jadernaja Fiz.* 3 (1966), 726-728 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 533-534. (T. Regge) 34 #1034

(with Lomsadze, Ju. M.) The explicit relation between the non-relativistic partial-wave amplitude and the trajectories of its poles in the λ-plane. (Ukrainian. Russian and English summaries) *Ukraīn. Fīz. Ž.* 11 (1966), 465-470. (M. E. Mayer) 34 #5419

(with Lomsadze, Ju. M.; Kontroš, E. Ė.) A new proof of the theorem of Pomerančuk. (Russian. English summary) *Ukrain. Fiz. Ž.* 13 (1968), 1701-1705. (Editors) 38 #5442

Tokarenko, A. I.

Radicals and stability in linear groups over commutative rings. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 165-176. (E. Schenkman) 36 #6512

Linear groups over rings. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 951-959. (E. Schenkman) 39 #325

(with Gringlaz, L. Ja.) Examples of locally finitely stable non-Baer groups without torsion. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 3, 18-28 (1968). (J. D. Dixon) 42 #4624

A remark on finitely generated linear groups. (Russian) *Proceedings of the Riga Seminar on Algebra (Russian)*, pp. 280-281. *Latv. Gos. Univ., Riga,* 1969. (L. Dornhoff) 41 #362

Locally nilpotent linear groups over commutative rings. (Russian) *Proceedings of the Riga Seminar on Algebra (Russian), pp.* 267-279. *Latv. Gos. Univ., Riga,* 1969. (L. Fuchs) 41 #1896

(with Levičs, E.) A remark on locally nilpotent torsion-free groups. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1406-1408. (D. I. Zaĭcev) 42 #7777

Tokarev, P. I.

Rectilinear nets on a Lobačevskiĭ plane which are not determined by the net-angle. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960) *(Russian), pp.* 146-151. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (H. W. Guggenheimer) 33 #6488

Certain questions of the geometric theory of the second variation in the Lagrange variational problem. (Russian) *Akad. Nauk Kazah. SSR Trudy Sekt. Mat. Meh.* 2 49-51, (1963). (L. Cesari) 32 #1578

An invariant form of the Jacobi equations in the case of a centroplanar indicatrix for the simplest Lagrange variational problem. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1963, *no.* 3, 17-20. (M. Z. v. Krzywoblocki) 29 #2683

(with Komissaruk, A. M.) Surfaces admitting geodesic networks not defined by the net angle. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 106-114. (A. Goetz) 33 #3199

Geometry of a family of surfaces that admit geodesic nets not determined by the net angle. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 241-246. (M. Akivis (RŽMat 1969 #3 A522)) 43 #5417

Tokarev, V. Ī.

Approximation of a weak cohesion in the theory of turbulence. (Russian) *Izv. Vysš. Ucebn. Zaved. Aviacion. Tehn.* 1966, *no.* 2, 29-33. (J. C. J. Nihoul) 34 #2250

(with Valēēv, K. G.) Application of the asymptotic method to differential equations with retarded argument. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 505-507. (M. Bertolino) 37 #4371

Tokarev, V. V.

(with Fatkin, Ju. M.) A games approach to the problem of choosing the optimum parameters of a dynamic system. *Inž. Ž. Meh. Tverd. Tela* 1966, *no.* 6, 3-10; *translated as Mechanics of Solids* 1 (1966), *no.* 6, 1-5 (1971). (V. F. Dem'janov) 43 #8400

Toki, Keisuke

Certain numerical values of curves on abelian varieties. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 17 (1970), 1-25. (J. S. Milne) 44 #4011

Tokizawa, Masamichi

On continuous eigenvalues in neutron thermalization. *J. Mathematical Phys.* 10 (1969), 1834-1841. (B. K. Datta) 41 #3055

Toklikišvili, S. K.

A generalization of the Poincaré-Bertrand formula. (Georgian. Russian summary) *Gruzin. Politehn. Inst. Trudy* 1962, *no.* 1 (81), 37-46. (D. H. Hyers) 32 #2867

A class of singular integral equations. (Georgian. Russian summary) *Gruzin. Politehn. Inst. Trudy* 1963, *no.* 8 (93), 57-62. (M. Coroi-Nedelcu) 31 #3807

On a certain integral equation with multiple integrals containing Cauchy kernels. (Russian) *Gruzin. Politehn, Inst. Trudy* 1965, *no.* 1 (99), 5-17. (R. T. Seeley) 34 #1819

On a linear boundary value problem for functions of several complex variables. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Srom.* 1965, *no.* 3 (101), 3-10. (H. Tornehave) 35 #1816

On a system of singular integral equations and its application to a linear boundary value problem for a system of functions of several complex variables. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1966, *no.* 4 (109), 3-15. (H. Tornehave) 35 #1817

A certain homogeneous boundary value problem for a function of several complex variables. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1968, *no.* 2 (122), 16-24. (J. Siciak) 41 #3803

A certain solution of the boundary value problem of conjugacy in the case of analytic functions of several complex variables. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1969, *no.* 5 (133), 77-92. (J. Siciak) 43 #7656

Tokuda, Hirotarō

Singularities of n-spheres in $(n + 2)$-space. *Yokohama Math. J.* 11 (1963), 23-39. (L. Neuwirth) 29 #4052

Singularities of n-manifold in $(n + 2)$-space. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 13 (1966), 35-41. (R. H. Fox) 36 #887

Tokuda, Naoki

(with Kanazawa, Akira) ω meson and a bound state of ρ-π system. *Progr. Theoret. Phys.* 31 (1964), 1066-1072. (D. Lurié) 31 #5541

Tokumaru, Hidekatsu

(with Iwai, Zenta) On the noninteracting control of linear time-variant multivariable systems. *Mem. Fac. Engrg. Kyoto Univ.* 30 (1968), 592-613. (From the authors' summary) 39 #2484

(with Adachi, N.; Inoue, Atsushi) On the controllability of nonlinear control systems. *Mem. Fac. Engrg. Kyoto Univ.* 31 (1969), 402-424. (E. O. Roxin) 41 #3148

(with Iwai, Zenta; Sanada, Satoshi) On amplitude estimation of limit cycles for multivariable relay control systems using Liapunov function. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 272-280. (Authors' summary) 42 #4247

(with Adachi, N.; Goto, Keizo) Davidon's method for minimization problems in Hilbert space with an application to control problems. *SIAM J. Control* 8 (1970), 163-178. (O. Gürel) 42 #7045 (with Amemiya, Takashi) On the absolute stability of time-varying nonlinear control system. (Japanese. English summary) *Systems and Control* 15 (1971), 971-977. (Authors' summary) 44 #3740

Tokuoka, Tatsuo

Fundamental relations between Pradntl-Reuss type plastic body and Maxwell type viscoelastic body. *Bull. JSME* 7 (1964), 17-20. (F. J. Lockett) 29 #3062

Plastic deformations and instability of spherical shells under internal pressure. *Indiana Univ. Math. J.* 20 (1970/71), 193-206. (T. W. Ting) 41 #7899

Tokuoka, Zensuke

Generating relations of the sub-algebras in the Duffin-Kemmer algebra. *Nuclear Phys.* 78 (1966), 681-693. (E. M. Corson) 33 #7036

Tokura, Nobuki

(with Kasami, Tadao) Context-free grammars with unique phrase structure. *Electron. Commun. Japan* 51 (1968), *no.* 6, 119-126. (S. Ginsburg) 40 #7053

(with Taniguchi, Ken-ichi; Kasami, Tadao; Ozaki, Hiroshi) Logical functions realizable by a planar NAND network. *Electron. Commun. Japan* 51 (1968), *no.* 2, 91-99. (B. Hazeltine) 40 #8512

(with Kasami, Tadao) Some remarks on BCH bounds and minimum weights of binary primitive BCH codes. *IEEE Trans. Information Theory* IT-15 (1969), 408-413. (Authors' summary) 40 #3977

(with Kasami, Tadao) On the weight structure of Reed-Muller codes. *IEEE Trans. Information Theory* IT-16 (1970), 752-759. (Authors' summary) 43 #3036

Tola, José

The metric tensor, inertia tensor, and stress tensor. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 1 (1962/63), 1-34. (J. Kestens) 29 #6429

On the use of finite reasoning in establishing the differential equations of engineering problems. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 1 (1962/63), 97-106. 29 #4228

Application of Kani's method to structures with variable cross-section. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 8-15. (J. Kestens) 29 #4278

On the matrix theory of linear static structures. *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 59-72. 31 #196

Partitions of two sets relative to a pair of injections defined between them. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 3 (1965), 1-8. (B. M. Schein (Šaĭn)) 33 #2555

On a generalization of the notion of free moniod. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 3 (1965), 43-49. (F. M. Sioson) 33 #177

* Algebra lineal. Espacios vectoriales y cálculo tensorial. (Spanish) [Linear algebra. Vector spaces and tensor calculus] Cuaderno de Estudio de Matemáticas Puras, No. 2. *Universidad Nacional de Ingenieria, Instituto de Matemáticas Puras y Aplicadas, Lima,* 1967. ii + 204 *pp.* (R. F. Rinehart) 38 #175

On the restriction to the diagonal of a multilinear symmetric function. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 5 (1967), 87-102. (G. V. Welland) 38 #1115

* Algebra lineal. Parte II: Algebra exterior. (Spanish) [Linear algebra. Part II: Exterior algebra] *Instituto para la Promoción de la Enseñanza de las Matematicas, Lima,* 1968. ii + 186 *pp.* (R. F. Rinehart) 39 #4201

Tola P., José. See Tola, José.

Tola Pasquel, José. See Tola, José.

Tolar, J.

(with Pluhař, Z.) Transformation matrix for the isotropic harmonic oscillator eigenvectors in $\{n_1n_2n_3\}$ and $\{nlm\}$ representations. *Czechoslovak J. Phys. Sect. B* 14 (1964), 287-293. (J. N. Islam) 29 #1916

(with Exner, P.) On S-transformation in the strong coupling theory. *Czechoslovak J. Phys. Sect. B* 19 (1969), 1480-1485. (S. Sankaran) 42 #7184

Tolčan, A. Ja.

The search for extremal paths on a finite graph. *Problemy Peredači Informacii* 4 (1968), *vyp.* 1, 95-100 *(Russian); translated as Problems of Information Transmission* 4 (1968), *no.* 1, 75-80 (1969). (G. Chartrand) 42 #2985

Tolchan, A. Ya. See Tolčan, A. Ja.

Toledo, B. P.

(with Kálnay, A. J.) A reinterpretation of the notion of localization. (Italian and Russian summaries) *Nuovo Cimento A* (10) 48 (1967), 997-1007. (H. Umezawa) 36 #1168

Toledo, Manuel Toledo. See Toledo Toledo, Manuel.

Toledo Toledo, Manuel

Normal multivariate distribution. (Spanish) *Estadíst. Española No.* 23 (1964), 32-44. (S. Kullback) 30 #2623

Toleuov, Ž.

(with Faĭnleĭb, A. S.) The distribution of values of arithmetic functions on certain subsets of a natural series. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 5, 23-27. (D. Ugrin-Šparac) 43 #6178

Tölgyesi, László

On some problems concerning packing of plane domains. I. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 19 (1970), 333-344. (W. G. Brown) 41 #927

Tölgyi, Şt.

Contributions concerning the functional equation of Poinsot-Pompeiu. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 7(21) (1962), *volum special,* 13-18 (From the author's summary) 35 #4626

On a class of functional equations and general methods for their solution. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 9(23) (1964), *volum special,* 15-20. (O. Em. Gheorghiu) 35 #5794

(with Oiţă, V.; Neamţu, N.; Obăgeanu, Eleonora) Two problems of quadrature solved with functional equations. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 10(24) (1965), 9-14. (O. Em. Gheorghiu) 35 #5795

Tolimieri, Richard

(with Auslander, L.) On a conjecture of G. D. Mostow and the structure of solvmanifolds. *Bull. Amer. Math. Soc.* 75 (1969), 1330-1333. (N. R. Wallach) 40 #8077

(with Auslander, L.) Splitting theorems and the structure of solvmanifolds. *Ann. of Math.* (2) 92 (1970), 164-173. (N. R. Wallach) 43 #2733

Applications of the semisimple splitting. *Bull. Amer. Math. Soc.* 77 (1971), 275-280. (J. E. Humphreys) 42 #7823

Tölke, Friedrich

* Praktische Funktionenlehre. Erster Band: Elementare und elementare transzendente Funktionen. Zweite, stark erweiterte Auflage. *Springer-Verlag, Berlin,* 1950. xi + 440 *pp.* (Editors) 41 #7157

* Praktische Funktionenlehre. Vierter Band: Elliptische Integralgruppen und Jacobische elliptische Funktionen im Komplexen. *Springer-Verlag, Berlin-New York,* 1967. viii + 191 *pp.* (S. Fempl) 37 #1653

* Praktische Funktionenlehre. Zweiter Band: Theta-Funktionen une spezielle Weierstraßsche Funktionen. *Springer-Verlag, Berlin-New York,* 1966. vii + 248 *pp. (loose errata)* (S. Fempl) 35 #3089

* Praktische Funktionenlehre. Dritter Band: Jacobische elliptische Funktionen, Legendresche elliptische Normalintegrale und spezielle Weierstraßsche Zeta- und Sigma-Funktionen. *Springer-Verlag, Berlin-New York,* 1967. viii + 180 *pp.* (S. Fempl) 36 #433

* Praktische Funktionenlehre. Fünfter Band: Allgemeine Weierstra sche Funktionen und Ableitungen nach dem Parameter, Integrale der Theta-Funktionen und Bilinear-Entwicklungen. *Springer-Verlag, Berlin-New York,* 1968. viii + 158 *pp.* (S. Fempl) 37 #4292

* Praktische Funktionenlehre. Sechster Band: Tafeln aus dem Gebiet der Theta-Funktionen und der elliptischen Funktionen mit 120 erläuternden Beispielen. Erster Teil. *Springer-Verlag, Berlin-New York,* 1969. lxxxii + 450 *pp.* (S. Fempl) 39 #3040

* Praktische Funktionenlehre. Sechster Band: Tafeln aus dem Gebiet der Theta-Funktionen und der elliptischen Funktionen. Zweiter Teil. *Springer-Verlag, Berlin-New York,* 1970. iv + *pp.* 451-1047. (S. Fempl) 43 #6466

Tölke, Jürgen

Symmetrische Rollung bei den ebenen nicht parabolischen M-Affinitätsvorgängen. *Arch. Math. (Basel)* 21 (1970), 317-325. (J. Hoschek) 42 #2373

Spezielle Bewegungsvorgänge. I. $S^{(m)}$-Bewegungsvorgänge. *Arch. Math. (Basel)* 21 (1970), 429-436. (D. Lovelock) 42 #7117

Spezielle Bewegungsvorgänge. II. $S_n^{(m)}$-Bewegungsvorgänge. *Arch. Math. (Basel)* 21 (1970), 550-556. (D. Lovelock) 43 #8281

Der sphärische Bresse-Kegelschnitt. *Math. Nachr.* 47 (1970), 345-353. (J. Hoschek) 44 #929

Zur zentralaffinen räumlichen Kinematik. *Math. Z.* 116 (1970), 71-78. (H. R. Müller) 41 #9124

Toll, John S.

Two, three and four point functions in quantum field theory. *Lect. Sem. on High-Energy Physics and Elementary Particles (Trieste, 1965), pp.* 55-83. *International Atomic Energy Agency, Vienna,* 1965. (R. F. Streater) 34 #5432

(with Källén, G.) Special class of Feynman integrals in two-dimensional space-time. *J. Mathematical Phys.* 6 (1965), 299-303. (A. S. Wightman) 30 #2834

(with Källén, G.) Momentum-space analyticity properties of the Bergman-Weil integral for the three point function. *J. Mathematical Phys.* 6 (1965), 1885-1901. (A. S. Wightman) 34 #5427

(with Araki, H.; Greenberg, O. W.) Equivalence of locality and paralocality in free parafield theory. *Phys. Rev.* (2) 142 (1966), 1017-1018. (A. Lewis Licht) 33 #3626

Tolle, Jon W.

(with Harris, W. A., Jr.) A nonlinear functional equation. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn., 1967), pp.* 449-454. *Benjamin, New York,* 1967. (Y. Sibuya) 37 #3225

A theorem on nonlinear difference equations. *Funkcial. Ekvac.* 11 (1968), 101-110. (C. H. Franke) 38 #6260

Analytic canonical forms for nonlinear difference equations. *Trans. Amer. Math. Soc.* 134 (1968), 527-544. (J. H. Curtiss) 38 #6261

Tollefson, Jeffrey L.

(with Stein, F. M.) Solutions of certain nonlinear differential equations by a separation or variables. *Amer. Math. Monthly* 73 (1966), *no.* 4, *part II,* 128-130. (J. A. Morrison) 33 #2847

On 3-manifolds that cover themselves. *Michigan Math. J.* 16 (1969), 103-109. (R. Bean) 39 #4853

3-manifolds fibering over S^1 with nonunique connected fiber. *Proc. Amer. Math. Soc.* 21 (1969), 79-80. (P. Orlik) 38 #5238

A characterization of 3-manifolds that are products. *Amer. J. Math.* 92 (1970), 604-611. (K. W. Kwun) 42 #2452

Imbedding free cyclic group actions in circle group actions. *Proc. Amer. Math. Soc.* 26 (1970), 671-673. (H. Scheerer) 42 #2482

Free involutions on non-prime 3-manifolds. *Osaka J. Math.* 7 (1970), 161-164. (K. W. Kwun) 42 #1092

Fibering 3-manifolds that admit free Z_k actions. *Trans. Amer. Math. Soc.* 147 (1970), 279-287. (K. W. Kwun) 40 #6557

(with Rogers, James T., Jr.) Homeomorphism groups of weak solenoidal spaces. *Proc. Amer. Math. Soc.* 28 (1971), 242-246. (C. J. Knight) 42 #6805

(with Rogers, James T., Jr.) Homogeneous inverse limit spaces with nonregular covering maps as bonding maps. *Proc. Amer. Math. Soc.* 29 (1971), 417-420. (G. W. Henderson) 42 #8439

Toller, M.

(with Sertorio, L.) Complex angular momentum and three-dimensional Lorentz group. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 413-433. (E. Predazzi) 32 #5131

(with Cosenza, G.; Sertorio, L.) Singular integral equations in the bound-state problem. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 913-932. (D. Lurié) 32 #3503

(with Restignoli, M.; Sertorio, L.) Numerical solution of a simplified Bethe-Salpeter equation for pion-pion interaction near $t = 0$. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 511-523. (N. Nakanishi) 33 #2211

Three-dimensional Lorentz group and harmonic analysis of the scattering amplitude. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 631-657. (J. Gunson) 33 #2287

(with Sciarrino, A.) Decomposition of the unitary irreducible representations of the group SL(2*C*) restricted to the subgroup SU(1,1). *J. Mathematical Phys.* 9 (1967), 1252-1265. (Authors' summary) 35 #6420

Tollis, B. De. See De Tollis, B.

Tolmačev, V. V.

System of field equations for a nonideal Fermi-Dirac system with two-particle bound states included explicitly. *Dokl. Akad. Nauk SSSR* 147 (1962), 84-87 *(Russian); translated as Soviet Physics Dokl.* 7 (1963), 998-1001. (A. Corciovei) 30 #5715

Mass, polarization, and vertex operators in a modified formulation of the problem of the nonideal Bose-Einstein system. *Dokl. Akad. Nauk SSSR* 153 (1963), 566-569 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 1067-1070. 32 #2127

Modified and unmodified formulations of the problem of a nonlinear, many-particle, Bose-Einstein system. *Dokl. Akad. Nauk SSSR* 153 (1963), 794-797 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 1168-1170. (Y. Nogami) 32 #8896

(See also Hwa, Rudolph C.; Teplitz, Vigdor L., 40 #2311)

Tolmachev, V. V. See Tolmačev, V. V.

Tolo, Kenneth

Factorizable semigroups. *Pacific J. Math.* 31 (1969), 523-535. (J. L. Chrislock) 42 #3208

Toločko, M. È.

The Riemann boundary value problem with infinite index for the half plane. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 4, 52-59. (A. D. Solomon) 41 #3785

The Riemann boundary value problem for an infinitely connected domain. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 2, 70-78. (S. A. Tersenov) 44 #1819

Tolok, V. A.

On fundamental solutions of equations of the type $X^{(N)} \pm \alpha^N X = 0$. (Russian) *Voprosy Kibernet. Vyčisl. Mat. Vyp.* 15 (1968), 95-102. (Editors) 38 #3488

Tolosa, H. H.

A method of averageing for quasilinear differential equations with retarded argument and with periodic coefficients. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 6 (1968), 147-159. (A. Halanay) 38 #6191

Investigation of the periodic solutions of a nonlinear difference equation. (Russian) *Collection of Sci. Works of Graduates, No. VI: Mathematics, Mechanics, Physics (Russian), pp.* 94-97. *Univ. Družby Narodov, Moscow,* 1969. (B. Crstici) 44 #4427

(with Rožkov, V. I.) The Fredholm alternative for linear systems of neutral type. (Russian) *Collection of Sci. Works of Graduates, No. 7: Mathematics, Mechanics, Physics (Russian), pp.* 63-67. *Univ. Družby Narodov, Moscow,* 1970. (D. Baĭnov) 44 #7087

Tolpygo, A. K.

Deformations of subalgebras in Lie algebras. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 6, 470-478. (A. Morimoto) 43 #1234

Tol′skaja, T. S.

Injectivity and freeness. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1202-1207. (S. E. Dickson) 33 #1329; erratum, 36, p. 1566

When are all cyclic modules essentially embedded in free modules? (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2 (16), 187-192. (S. E. Dickson) 43 #2013

Finitely faithful modules. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 3 (17), 210-216. (L. Bican) 44 #249

A homological characterization of certain classes of rings. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 2, 49-57. (C. Niţă) 44 #1700

Tolson, Robert H.

* (with Argentiero, Peter D.) A new method of testing small samples for goodness of fit to normal populations. NASA TN D-4405. *National Aeronautics and Space Administration, Washington, D.C.,* 1968. i + 317 *pp.* (Authors' summary) 38 #1799

Tolstoff, G. P. See Tolstov, Georgi P.

Tolstoi, V. N.

(with Gurbanovič, I. S.; Smirnov, Ju. F.) Calculation of fractional parentage coefficients for the (1*d*-2*s*)-shell nuclei with the projection-operator method. *Czechoslovak J. Phys.* 21B (1971), 236-246. (N. E. Hurt) 43 #7138

Tolstonogov, A. A.

Suboptimal guidance. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 92 (1966), 24-35. (B. Pittel′ (RŽMat 1967 #12 B470)) 40 #5306

A certain optimal programming problem with constraints on the phase coordinates. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 97 (1968), 126-141. (A. Halanay) 41 #2174

The optimality principle in the mean for discrete systems with restricted coordinates. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 109 (1969), 77-91. (G. M. Tenengol′c) 43 #5966

Tolstov, Georgi P.

Majorants and minorants in various problems. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 308-311. *Fizmatgiz, Moscow,* 1961. (L. C. Young) 32 #2535

The definition of a restricted Denjoy integral by classical means. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 312-313. *Fizmatgiz, Moscow,* 1961. (L. C. Young) 32 #2548

} An elementary integration which can be reduced to a nonmeasurable indefinite integral. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 454-457. (J. Mařík) 30 #1228

Derivative and integral (the axiomatic approach). (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 608-630. (J. Mařík) 30 #4895

Differentiation and integration in abstract spaces. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 420-422. (B. Walsh) 34 #302

A letter to the editors. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 637. (Editors) 34 #6024

On the Radon-Nikodym theorem. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 334-338. (P. R. Halmos) 40 #2804

Tolstova, Ju. I.

The structure of the group SL(2,5). (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 78 (1969), 81-82. (J. D. Dixon) 43 #6322a

Tolstova, Ju. N.

Modelling l-valued logic in k-valued logic $(k > 1)$. *Problemy Kibernet. No.* 18 (1967), 67-82 *(Russian); translated as Systems Theory Res.* 18 (1968), 62-76. (J. D. Rutledge) 41 #41; erratum, 43, p. 1696

Tolstow, G. P. See Tolstov, Georgi P.

Tolstyh, A. I.

On the structure of a curvilinear shock wave. *Prikl. Mat. Meh.* 28 (1964), 553-556 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 682-686. (E. G. Broadbent) 31 #4307

(with Belocerkovskiĭ, O. M.; Popov, F. D.; Fomin, V. N.; Holodov, A. S.) Numerical solution of certain problems in gas dynamics. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 401-416. (Editors) 42 #7142

Tolstykh, A. I. See Tolstyh, A. I.

(The sign } indicates an entry in the supplement.)

Tolubinskiĭ, E. V.

An integral method for solving the general problem of transfer of heat and matter. *Dokl. Akad. Nauk SSSR* 160 (1965), 1289-1292 *(Russian); translated as Soviet Physics Dokl.* 10 (1965), 120-123. (J. F. Heyda) 31 #5466

el-Tom, M. E. A.

* On optimum quadrature formulae over the square. Rapport No. 28 (août, 1969). Séminaire de Mathématique Appliquée et Mécanique, Université Catholique de Louvain. *Librairie Universitaire, Louvain,* 1969. ii + 11 *pp.* (R. A. Valentin) 41 #4806

Tom, R. See Thom, René.

Toma, Ileana

Extensions of areolar polynomials. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 387-392. (D. Pascali) 40 #2887

An aprioric inequality for elliptic operators. *Bull. Math. Soc. Sci. Math. R.S. Roumanie (N.S.)* 13(61) (1969), *no.* 4, 483-485 (1970). (Y. I. Kannai) 44 #7118

Toma Marcu, Eleonora. See Marcu, Eleonora Toma.

Tomar, J. S.

Flexural vibrations in uniform beams. *Bull. Calcutta Math. Soc.* 54 (1962), 151-162. (Author's summary) 29 #4307

On flexural vibrations of isotropic elastic thin square plates. *Bull. Calcutta Math. Soc.* 55 (1963), 1-10. (Author's summary) 29 #6696

Tomás, Francisco

On the representation of differentiable varieties as metric spaces. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 7 (1967), 37-64. (G. Tallini) 38 #3790

(with Canals, Ignacio) On ideals of *p*-adic entire functions and polynomials of approximations. (Spanish) *Bol. Soc. Mat. Mexicana* (2) 12 (1967), 92-99. (A. F. Monna) 38 #6356

Tomáš, Josef

(with Tondl, Aleš) On the existence of subultraharmonic resonance of a single-mass nonlinear system excited by periodic force. (German and Russian summaries) *Nonlinear Vibration Problems, Vol.* 8, *pp.* 11-22. *Państw. Wydawn. Nauk., Warsaw,* 1967. (Editors) 37 #4342

Tomášek, Stanislav

Some remarks on tensor products. *Comment. Math. Univ. Carolinae* 6 (1965), 85-96. (M. Bonnard) 31 #5070

On tensor products of Abelian groups. *Comment. Math. Univ. Carolinae* 6 (1965), 73-83. (M. Bonnard) 31 #5069

On a theorem of M. Katětov. *Comment. Math. Univ. Carolinae* 7 (1966), 105-108. (M. Katětov) 37 #4767

Certain generalizations of the Katětov theorem. *Comment. Math. Univ. Carolinae* 9 (1968), 573-581. (M. Katětov) 41 #5954

On a certain class of Λ-structures. I, II. *Czechoslovak Math. J.* 20(95) (1970), 1-18; *ibid.* 20(95) (1970), 19-33. (J. P. Ferrier) 42 #3539

M-barrelled spaces. *Comment. Math. Univ. Carolinae* 11 (1970), 185-204. (D. Vogt) 42 #6574a

M-bornological spaces. *Comment. Math. Univ. Carolinae* 11 (1970), 235-248. (D. Vogt) 42 #6574b

"*M*-barrelled spaces, *M*-bornological spaces": Ad addendum. *Comment. Math. Univ. Carolinae* 11 (1970), 841. (D. Vogt) 42 #6574c

Tomaselli, Giuseppe

A class of inequalities. *Boll. Un. Mat. Ital.* (4) 2 (1969), 622-631. (A. E. Danese) 41 #411

Tomaševič, F. V.

(with Kurtjakov, S. U.) On planes and angles between objects of a vector space. (Russian) *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 115-121. (W. Wrona) 35 #6051

(with Kurtjakov, S. U.) Expansion in terms of a nonorthogonal system of elements. (Russian. Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 13(17) (1967), *fasc.* 3-4, 49-56. (Authors' summary) 37 #2767

The differential equations of vector lines of a harmonic field. (Russian) *Izv. Vysš. Učebn. Zaved. Èlektromehanika* 1968, *no.* 8, 855-858. (H. Jacobowitz) 43 #6562

Tomashpol'skiy, A. M. See Tomašpol'skiĭ, A. M.

Tomašić, Vesna

Spiegelungen in mikrodesarguesschen Ebenen. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 119-127. (R. Lingenberg) 44 #916

Tomasini, A.

(with Savoia, M.; Sawicki, J.) Four quasi-particle excitations and two-phonon vibrational states in spherical nuclei. I. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 991-1014. (D. J. Thouless) 30 #1790

Tomašpol'skiĭ, A. M.

Algorithm for solution of a system of logical equations for majorital decomposition of two-valued logic functions. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 6, 111-115 *(Russian); translated as Engrg. Cybernetics* 1967, *no.* 6, 117-122 (1968). (J. A. Schatz) 39 #8014

A generalization of the transfer problem. (Russian) *Ž. Vyčis Mat. i Mat. Fiz.* 8 (1968), 242-244. (J. Gruska) 39 #3735

Tomassini, Giuseppe

Tracce delle funzioni olomorfe sulle sottovarietà analitiche reali d'una varietà complessa. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 31-43. (H. Röhrl) 34 #6808

(with Tognoli, A.) Teoremi d'immersione per gli spazi analit reali. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 575-598. (C.-C Hsiung) 37 #927

Complessificazione di un gruppo di Lie reale. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 101-106. (N. R. Wallach) 37 #6402

Sulla topologia dello spettro di un'algebra di Banach. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 529-539. (E. J. Akutowicz) 41 #8708

A remark on the Banach algebra $LH^{\infty}(D^{n})$. (Italian summary) *Boll. Un. Mat. Ital.* (4) 2 (1969), 202-204. (R. H. Cox) 40 #744

Un théorème d'Hartogs. *Compositio Math.* 21, (1969) 107-112. (M. Herrera) 39 #3031

(with Andreotti, A.) A remark on the vanishing of certain cohomology groups. *Compositio Math.* 21 (1969), 417-430. (H. B. Laufer) 41 #5651

(with Andreotti, Aldo) Some remarks on pseudoconcave manifolds. *Essays on Topology and Related Topics (Mémoires dédiés à Georges de Rham), pp.* 85-104. *Springer, New York,* 1970. (W. Barth) 42 #541

Tomastik, E. C.

Oscillation of a nonlinear second order differential equation. *SIAM J. Appl. Math.* 15 (1967), 1275-1277. (H. C. Howard) 37 #1705

Singular quadratic functionals of *n* dependent variables. *Trans. Amer. Math. Soc.* 124 (1966), 60-76. (M. R. Hestenes) 33 #4743

Oscillation of nonlinear matrix differential equations of second order. *Proc. Amer. Math. Soc.* 19 (1968), 1427-1431. (D. Hinton) 38 #372

Oscillation of systems of second order differential equations. *J. Differential Equations* 9 (1971), 436-442. (R. M. Cooper) 43 #621

Tomatsu, Sizuo

Entropy of continuous automorphism on a compact abelian group. (Japanese summary) *Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci.* 3 (1962), 33-36. (M. Fukamiya) 30 #1545

Entropy of ergodic automorphisms on toroidal groups. (Japanese summary) *Sci. Rep. Fac. Lib. Arts Ed. Gifu Univ. Natur. Sci.* 3 (1962/63), 168-172. (J. Chover) 29 #4868

Tombak, M.

(with Kull, I.) Certain basic properties of inductive definitions and generating systems related with them. (Russian) *Tartu Riikl. Ül. Toimetised Vih.* 226 (1969), 41-62. (I. M. Havel) 43 #6026

Tomczak, Nicole

A remark on *(s,t)*-absolutely summing operators in L_p-spaces. *Studia Math.* 35 (1970), 97-100. (A. Pietsch) 42 #831

Tom Dieck, Tammo. See tom Dieck, Tammo.

Tomelleri, Valentino

Su di alcune serie della teoria del potenziale ed i polinomi di Tchebycheff e di Legendre. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 361-371. (John W. Green) 30 #286

Tomesco, Ioan. See Tomescu, Ioan.

Tomescu, Anca

(with Tomescu, F. M. G.) On a *m*-ary encoding method. *Internat J. Control* (1) 11 (1970), 245-253. (Authors' summary) 42 #7406

Tomescu, F. M. G.

(with Tomescu, Anca) On a *m*-ary encoding method. *Internat. J. Control* (1) 11 (1970), 245-253. (Authors' summary) 42 #7406

Tomescu, Ioan

Sur les méthodes matricielles dans la théorie des réseaux. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A826-A829. (B. M. Schein (Šaĭn)) 34 #7210

Method for determining the total conductibilities of a multipole. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 1109-1115. (P. Constantinescu) 35 #1410

Method for the determination of the path of least length between two vertices of a finite graph. (Romanian. French and Russian summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 15 (1966), *no.* 2, 91-104. (P. Drăgilă) 36 #6326

Sur un problème de partition avec un nombre minimal de classes. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A645-A648. (G. Baron) 37 #1258

Méthode pour la détermination de la fermeture transitive d'un graphe fini. *Rev. Française Informat. Recherche Opérationnelle* 1 (1967), *no.* 4, 33-37. (Leonard Weiss) 36 #5020

Un algorithme pour la détermination des plus petites distances entre les sommets d'un réseau. *Rev. Française Informat. Recherche Opérationnelle* 1 (1967), *no.* 5, 133-139. (W. G. Brown) 36 #7404

On a matrix method which occurs in the theory of nets. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 105-118. (Editors) 39 #2535

Properties of the characteristic function of a multipole. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 927-934. (Author's summary) 40 #7035

On some combinatorial problems in the theory of classification. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1385-1393. (Author's summary) 40 #4132

Théorèmes d'élimination des noeuds dans la théorie des réseaux. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 467-472. (C. F. Picard) 41 #3178

A theorem on the equivalence of (1,*k*)-multipoles. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 17 (1968), *no.* 1, 105-107. (Author's summary) 40 #4014

Une méthode d'analyse des schémas combinatoires à contacts et relais et sa réalisation à l'aide d'un calculateur universel. Colloque sur les Techniques de Calcul et les Calculateurs (Bucarest, 1967). *Bull. Math. Soc. Sci. Math. R.S. Roumanie (N.S.)* 12(60) (1968), *no.* 2, 153-157. (Leonard Weiss) 39 #8015

Sur le problème du coloriage des graphes généralisés. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A250-A252. (Author's summary) 38 #1029

Sur l'algorithme matriciel de B. Roy. *Rev. Française Informat. Recherche Opérationnelle* 2 (1968), *no.* 7, 87-91. (R. McFadden) 38 #1041

On the synthesis of Boolean functions with the aid of disjunctive nets. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 267-282. (Author's review (Zbl 162, 332)) 41 #6625

On the problem of synthesis of sequential automata of Mealy type. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 763-770. (Author's summary) 41 #3189

La construction des tests minimaux pour les fonctions booléennes symétriques. (English summary) *Calcolo* 6 (1969), 59-68. (Author's summary) 43 #6011

An algorithm for determining the chromatic number of a finite graph. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res. No.* 1 (1969), 69-81. (K. Wagner) 39 #5420

Recent research in the theory of Boolean matrices. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res. No.* 2 (1969), 51-64. (M. A. Harrison) 40 #1060

Formulas of sieve type with applications to problems of enumeration. (Romanian) *Gaz. Mat. Ser. A* 74 (1969), 382-391. (R. C. Read) 41 #1592

Une évaluation du nombre chromatique d'un graphe fini. *Studia Sci. Math. Hungar.* 4 (1969), 55-58. (K. Wagner) 42 #129

Notions of combinatorics (methods of Polyà). (Romanian) *Gaz. Mat. Ser. A* 75 (1970), 469-477. (Editors) 42 #7518

Le nombre maximal de colorations d'un graphe. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1301-A1303. (J. W. Moon) 43 #3167

Le nombre minimal de colorations d'un graphe. *C. R. Acad. Sci. Paris Sér. A - B* 274 (1972), A539-A542. (G. Laman) 44 #6549

Tomi, Friedrich

Über semilineare elliptische Differentialgleichungen zweiter Ordnung. *Math. Z.* 111 (1969), 350-366. (C. B. Morrey, Jr.) 43 #5150

(with Heinz, Erhard) Zu einem Satz von Hildebrandt über das Randverhalten von Minimalflächen. *Math. Z.* 111 (1969), 372-386. (M. Pinl) 42 #975

Ein einfacher Beweis eines Regularitätssatzes für schwache Lösungen gewisser elliptischer Systeme. *Math. Z.* 112 (1969), 214-218. (W. J. Sweeney) 41 #2199

Ein teilweise freies Randwertproblem für Flächen vorgeschriebener mittlerer Krümmung. *Math. Z.* 115 (1970), 104-112. (W. F. Pohl) 41 #7553

Minimal surfaces and surfaces of prescribed mean curvature spanned over obstacles. *Math. Ann.* 190 (1970/71), 248-264. (F. J. Almgren, Jr.) 42 #6683

Tomić, Boško S.

Les relations asymptotiques pour les zéros croissant indéfiniment des polynomes à coefficients positifs. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 49 (1963), 799-818. (M. Marden) 29 #5990

La distribution des zéros croissant indéfiniment des polynômes à coefficients positifs. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 50 (1964), 1151-1173. (M. Marden) 31 #2377

Tomić, Miodrag

Sur un théorème de H. Bohr. *Math. Scand.* 11 (1962), 103-106. (R. J. Newman) 31 #316

Sur un critère pour la convergence des séries de Fourier dans un point fixe. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 31 (1963), *no.* 4, 23-27. (G. M. Petersen) 29 #6247

Sur la sommation d'une classe des séries de Fourier. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 31 (1963), *no.* 4, 31-36. (G. M. Petersen) 29 #6248

(with Aljančić, S.) Sur le module de continuité intégral des séries de Fourier à coefficients convexes. *C. R. Acad. Sci. Paris* 259 (1964), 1609-1611. (G. Sunouchi) 29 #5046

A convergence criterion for Fourier series. *Proc. Amer. Math. Soc.* 15 (1964), 612-617. (R. Bojanic) 29 #1488

(with Aljančić, S.) Über den Stetigkeitsmodul von Fourier-Reihen mit monotonen Koeffizienten. *Math. Z.* 88 (1965), 274-284. (G. G. Lorentz) 31 #2555

Coefficients of Fourier series with Hadamard gaps. (Serbo-Croatian. French summary) *Acad. Serbe Sci. Arts Glas* 263 (1966), 165-173. (Author's summary) 32 #8026

(with Aljančić, S.) Transformationen von Fourier-Reihen durch monoton abnehmende Multiplikatoren. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 23-30. (W. Miesner) 34 #1778

Sur les coefficients des séries de Fourier avec les lacunes d'Hadamard. *Bull. Acad. Serbe Sci. Arts Cl. Sci. Math. Natur. Sci. Math.* 35 (1966), *no.* 5, 63-68. (M. E. Noble) 34 #8061

(with Bojanić, Ranko) Absolute convergence of Fourier series with small gaps. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 297-309. (H. J. Landau) 34 #3197

(with Aljančić, S.) Lower bound of the modulus of continuity expressed in terms of the Fourier coefficients of a function. (Serbo-Croatian. French summary) *Acad. Serbe Sci. Arts Glas* 269 (1967), 65-77. (S. Kurepa) 36 #3041

Jovan Karamata (1902-1967). *Enseignement Math.* (2) 15 (1969), 1-20. (Editors) 39 #5305

(with Aljančić, S.; Bojanic, R.) On the degree of convergence of Fejér-Lebesgue sums. *Enseignement Math.* (2) 15 (1969), 21-28. (G. C. N. Kulshrestha) 42 #4939

Tomilov, E. D.

(See Krulikovskiĭ, N. N., 37 #18)

Tominaga, Akira

Extensions of Riemannian metrics. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 135-145. (K. Nomizu) 32 #3016

Tominaga, Hisao

(with Ôhori, Masayuki) A note on non-commutative Kummer extensions. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 78-80. (Carl Faith) 30 #1125

(with Kishimoto, Kazuo; Onodera, Takesi) On normal basis theorems and the extension dimension. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 81-88. (J. K. Goldhaber) 29 #5852

On Nagahara's theorem. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964/65), 153-157. (J. K. Goldhaber) 32 #7607

Note on extensions of derivations in simple rings. *J. Fac. Sci. Hokkaido Univ. Ser. I* 19 (1965), 56-57. (A. Rosenberg) 32 #5697

Note on *q*-Galois extensions of simple rings. *J. Fac. Sci. Hokkaido Univ. Ser. I* 19 (1966), 66-70. (A. Rosenberg) 33 #5681

(with Nagahara, Takasi) On dimensions of simple ring extensions. *J. Fac. Sci. Hokkaido Univ. Ser. I* 19 (1966), 162-168. (L. J. Ratliff, Jr.) 34 #5879

On Galois extensions over a field and abelian Galois groups. *Math. J. Okayama Univ.* 12 (1966), 153-158. (A. Rosenberg) 35 #2929

(with Nagahara, Takasi; Kishimoto, Kazuo) Errata: "Supplementary remarks to the previous papers". *Math. J. Okayama Univ.* 12 (1966), 169. (Editors) 34 #1364

(with Nagahara, Takasi) Errata: "On Galois theory of simple rings". *Math. J. Okayama Univ.* 12 (1966), 167. (Editors) 34 #1363

On *q*-Galois extensions of simple rings. *Nagoya Math. J.* 27 (1966), 485-507. (A. Rosenberg) 34 #4307a

(with Nagahara, Takasi; Nakajima, Atsushi) Algebraic extensions of simple rings. I. *Math. J. Okayama Univ.* 13 (1967), 15-22. (H. F. Kreimer) 37 #4125

(with Nagahara, Takasi) Algebraic extensions of simple rings. II. *Math. J. Okayama Univ.* 13 (1967), 23-28. (H. F. Kreimer) 37 #4126

(with Nagahara, Takasi; Ôhori, Masayuki) On extensions of compatible pairs of isomorphisms. *Math. J. Okayama Univ.* 13 (1968), 95-104. (H. F. Kreimer) 38 #3304

On a result of Ribenboim. *Math. J. Okayama Univ.* 13 (1968), 105. (F. De Meyer) 38 #4522

(with Nakajima, Atsushi) A note on group rings of *p*-groups. *Math. J. Okayama Univ.* 13 (1968), 107-109. (S. K. Sehgal) 39 #328

Some results on normal bases. *Math. J. Okayama Univ.* 13 (1968), 111-118. (H. F. Kreimer) 38 #4523

On generating elements of simple ring extensions. *Math. J. Okayama Univ.* 14 (1969/70), 7-11. (S. S. Page) 41 #6912

A note on normal basis elements. *Math. J. Okayama Univ.* 14 (1969/70), 27-28. (H. F. Kreimer) 41 #3529

A characterization of quaternion algebras. *Math. J. Okayama Univ.* 14 (1969/70), 35-36. (W. S. Martindale, III) 41 #5404

(with Motose, Kaoru) Group rings with nilpotent unit groups. *Math. J. Okayama Univ.* 14 (1969/70), 43-46. (M. Friedberg) 41 #1899

(with Nakamoto, Taichi) On biregularly generated rings. *Math. J. Okayama Univ.* 14 (1969/70), 119-122. (H. H. Storrer) 44 #6761

* (with Nagahara, Takasi) Galois theory of simple rings. *Department of Mathematics, Okayama University, Okayama,* 1970. iii + 180 *pp. (loose errata)* (S. Elliger) 42 #6047

Tomita, Kazuhisa

(with Tanaka, Motoyuki) Green's function theory of magnetic relaxation. II. A ferromagnet above the Curie temperature. *Progr. Theoret. Phys.* 29 (1963), 651-674. (R. Kubo) 31 #6633 (with Tanaka, Motoyuki) Green's function theory of magnetic relaxation. III. The case of an alternant magnet. *Progr. Theoret. Phys.* 33 (1965), 1-21. (R. Kubo) 31 #6634

Tomita, Kenji

(with Nariai, Hidekazu) On the gravito-C-field in an empty region with spherical symmetry. *Progr. Theoret. Phys.* 33 (1965), 322-333. (A. Raychaudhuri) 31 #5651

(with Nariai, Hidekazu) On the problem of gravitational collapse. *Progr. Theoret. Phys.* 34 (1965), 155-172. (C. Gilbert) 32 #7186

Tomita, Minoru

On canonical forms of von Neumann algebras. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Sendai,* 1967*) (Japanese), pp.* 101-102. *Math. Inst., Tôhoku Univ., Sendai,* 1967. (S. Sakai) 44 #2046

The second dual of a C^*-algebra. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 21 (1967), 185-193. (R. Arens) 36 #6955

Tomitch, Boško. See Tomić, Boško S.

Tomiuk, Bohdan J.

(with Bonsall, F. F.) The semi-algebra generated by a compact linear operator. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 177-196. (S. R. Foguel) 32 #1557

Left completely continuous semi-algebras. *Fund. Math.* 64 (1969), 123-145. (R. H. Cox) 40 #738

(with Alexander, F. E.) Complemented B^*-algebras. *Trans. Amer. Math. Soc.* 137 (1969), 459-480. (G. Maltese) 38 #5009

(with Wong, Pak-ken) The Arens product and duality in B^*-algebras. *Proc. Amer. Math. Soc.* 25 (1970), 529-535. (J. D. Stein, Jr.) 41 #4256

Tomiyama, Jun

Some remarks on antisymmetric decompositions of function algebras. *Tôhoku Math. J.* (2) 16 (1964), 340-344. (H. Rossi) 30 #5157

Applications of Fubini type theorem to the tensor products of C^*-algebras. *Tôhoku Math. J.* (2) 19 (1967), 213-226. (S. Sankaran) 36 #1990

(with Hakeda, Jôsuke) On some extension properties of von Neumann algebras. *Tôhoku Math. J.* (2) 19 (1967), 315-323. (S. Anastasio) 36 #5706; erratum, 37, p. 1470

A remark on representations of CCR algebras. *Proc. Amer. Math. Soc.* 19 (1968), 1506. (H. Halpern) 38 #549

(with Ishikawa, Hiroshi; Wada, Junzo) On the essential set of function algebras. *Proc. Japan Acad.* 44 (1968), 1000-1002. (E. L. Stout) 39 #783

On the tensor products of von Neumann algebras. *Pacific J. Math.* 30 (1969), 263-270. (S. Sakai) 39 #7446

(with Ishikawa, Hiroshi; Wada, Junzô) On the local behavior of function algebras. *Tôhoku Math. J.* (2) 22 (1970), 48-55. (E. L. Stout) 41 #4249

Tomkins, R. James

An iterated logarithm theorem for some weighted averages of independent random variables. *Ann. Math. Statist.* 42 (1971), 760-763. 44 #3378

On an inequality of Heyde. *J. Appl. Probability* 8 (1971), 428-429. (J. D. Mason) 44 #7607

Some iterated logarithm results related to the central limit theorem. *Trans. Amer. Math. Soc.* 156 (1971), 185-192. (T. M. Liggett) 43 #1257

Tomkinson, M. J.

Local conjugacy classes. II. *Arch. Math. (Basel)* 20 (1969), 567-571. (S. E. Stonehewer) 41 #8503

$\mathfrak{F}$-injectors of locally soluble FC-groups. *Glasgow Math. J.* 10 (1969), 130-136. (B. Hartley) 40 #5742

Local conjugacy classes. *Math. Z.* 108 (1969), 202-212. (S. E. Stonehewer) 39 #6965

Formations of locally soluble FC-groups. *Proc. London Math. Soc.* (3) 19 (1969), 675-708. (S. E. Stonehewer) 41 #5501

(with Gardiner, A. D.; Hartley, B.) Saturated formations and Sylow structure in locally finite groups. *J. Algebra* 17 (1971), 177-211. (B. A. F. Wehrfritz) 42 #7778

Tomkó, József

A single-queue system considering the reliability of the server. (Russian. English summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 61-72. (E. Reich) 30 #5385

On the stationary queue-length distribution in a single-channel service system considering the reliability of the channel. (Russian. English summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 269-282 (1965). 32 #5364

On queueing problems. I, II. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 289-312; *ibid.* 16 (1966), 1-16. (L. Takács) 39 #3622a

(with Mogyoródi, József) Limit distribution of the useful lifetime of an apparatur operating at random intervals. (Hungarian. Russian summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 421-433. (Authors' summary) 38 #6731

On queueing problems. III. (Hungarian. Russian summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 435-446. (L. Takács) 39 #3622b

A limit theorem in the queueing problem with indefinitely increasing intensity of flow. (Russian) *Studia Sci. Math. Hungar.* 2 (1967), 447-454. (Petr Mandl) 36 #4660

Tomkys, W. A.

* (with Plumpton, C.) An introductory course of mathematics and theoretical mechanics. Vol. 4: Theoretical mechanics. *A Pergamon Press Book. The Macmillan Co., New York,* 1964. x + 454 *pp.* (K. Forster) 31 #4216

Tomonaga, Yasurô

On Pontrjagin classes modulo q. *J. Math. Soc. Japan* 16 (1964), 96-101. (F. Hirzebruch) 30 #2527

A-genus and indecomposability of differentiable manifolds. *Proc. Amer. Math. Soc.* 15 (1964), 586-589. (M. F. Atiyah) 29 #2817

Mod 3 Pontryagin class and indecomposability of differentiable manifolds. *Tôhoku Math. J.* (2) 16 (1964), 252-256. (F. Hirzebruch) 30 #2526

Manifolds admitting continuous field of frames. *Tôhoku Math. J.* (2) 16 (1964), 334-339. (R. H. Szczarba) 32 #6486

On k-parallelizable manifolds. *Tôhoku Math. J.* (2) 17 (1965), 1-6. (Ph. Tondeur) 36 #4575

Manifolds with constant p-sectional curvature. *Tôhoku Math. J.* (2) 17 (1965), 223-226. (C.-J. Hsu) 35 #1039

Some properties of Pontryagin classes mod 3. *Trans. Amer. Math. Soc.* 117 (1965), 37-42. (Howard Roberts) 30 #586

Errata: Some properties of Pontryagin classes mod 3. *Trans. Amer. Math. Soc.* 120 (1965), 368. (Editor) 32 #463

Some applications of characteristic classes. *Comment. Math. Univ. St. Paul.* 14 (1966), 53-56. (R. H. Szczarba) 33 #3312

Some properties of powers of manifolds. *Tôhoku Math. J.* (2) 18 (1966), 362-367. (R. Bott) 37 #935

Index and cobordism. *Tôhoku Math. J.* (2) 19 (1967), 462-466. (R. E. Stong) 37 #2242

Divisibility of index of differentiable manifolds. *Bull. Fac. Ed. Utsunomiya Univ. No.* 18 (1968), *section* 2, 1-2. (K. H. Mayer) 41 #1060

Pseudo-Jacobi fields on minimal varieties. *Tôhoku Math. J.* (2) 21 (1969), 539-547. (W. F. Pohl) 41 #7555

Jacobi fields in a Finsler space. *TRU Math.* 5 (1969), 37-42. (R. B. Misra) 42 #5205

Tomor, Benedek

An extremal property of regular polyhedra in spaces of constant curvature. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 263-271. (A. Rapcsák) 38 #2674

Tomov, V.

(with B"rnev, Pet"r) The logarithmic potential of a homogeneou semicircle. (Russian) *C. R. Acad. Bulgare Sci.* 20 (1967), 879-881. (J. Siciak) 36 #4003

Tomović, Rajko

* Sensitivity analysis of dynamic systems. Translated from the Serbian by David Tornquist. *McGraw-Hill Book Co., New York-Toronto-London,* 1963. vii + 142 *pp.* 32 #3882

Tomovich, Rajko. See Tomović, Rajko.

Tomozawa, Yukio

A note on local commutativity. II. *Nuovo Cimento* (10) 28 (1963), 667-670. (A. S. Wightman) 30 #2838

(with Konuma, Michiji) High energy scattering in the unitary symmetry model. *Ann. Physics* 29 (1964), 391-400. (Bunji Sakita) 32 #3512

(with Konuma, M.) Decay of baryon resonances in the unitary symmetry model. *Phys. Lett.* 10 (1964), 347-348. (From the authors' introduction) 31 #6587

Internal symmetry and the Poincaré group. *J. Mathematical Phys.* 6 (1965), 656-657. (A. O. Barut) 31 #1052

On the McGlinn theorem. *Progr. Theoret. Phys.* 33 (1965), 319-321. (W. D. McGlinn) 31 #4468

(with Patil, Sharashchandra H.; Yao, York-peng) Reciprocity, normality of K^0-$\bar{K}^0$ mass matrix, and CP violation in weak interactions. *Phys. Rev.* (2) 142 (1966), 1041-1047. (From the authors' introduction) 33 #1047

Tompa, H.

Gaussian numerical integration of a function depending on a parameter. *Comput. J.* 10 (1967), 204-205. (F. Stenger) 35 #5138

Tompkins, Charles B.

Methods of successive restrictions in computational problems involving discrete variables. *Proc. Sympos. Appl. Math., Vol. XV, pp.* 95-106. *Amer. Math. Soc., Providence, R.I.,* 1963. (H. Hanani) 31 #2159

* (with Wilson, Walter L., Jr.) Elementary numerical analysis. *Prentice-Hall, Inc., Englewood Cliffs, N.J.,* 1969. xvi + 396 *pp.* (D. Greenspan) 40 #3670

Tompkins, Donald R.

(with O'Connell, R. F.) Generalized solutions for massless free fields and consequent generalized conservation laws. *J. Mathematical Phys.* 6 (1965), 1952-1954. (Roland Good, Jr.) 32 #354 (with O'Connell, R. F.) Generalized conservation laws for free fields with mass. *Nuovo Cimento* (10) 38 (1965), 1088-1091. (A. Lewis Licht) 33 #3643

(with O'Connell, R. F.) Physical interpretation of generalized conservation laws. *Nuovo Cimento* (10) 39 (1965), 391-394. (T. W. B. Kibble) 33 #2179

Equivalent representations in symmetrized tensors. *Phys. Rev. Lett.* 16 (1966), 1058-1060. (R. Keown) 34 #1413

A modified Frobenius equation for characters and branching laws of the permutation groups. (Italian and Russian summaries) *Nuovo Cimento B* (10) 56 (1968), 316-322. (H. Ezawa) 38 #252

Symmetrized tensor geometry. *J. Mathematical Phys.* 11 (1970), 105-108. (R. Behari) 41 #3021

Tompkins, H. E.

Computer education. *Advances in Computers, Vol. 4, pp. 135-168. Academic Press, New York,* 1963. (B. A. Galler) See 31 #903

Tompkins, Robert R.

On Kleene's recursive realizability as an interpretation for intuitionistic elementary number theory. *Notre Dame J. Formal Logic* 9 (1968), 289-293. (R. E. Vesley) 39 #3975

Tomšič, Gabrijel

On convergence. (Slovenian) *Obzornik Mat. Fiz.* 10 (1963), 111-115. (Editors) 34 #5049

Representation of positive functionals in an involutory algebra with *2n* generators. (Slovenian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 57-66. (G. Maltese) 40 #746

Topological classification of Fréchet spaces. (Slovenian) *Obzornik Mat. Fiz.* 16 (1969), 162-165. (S. Mardšić) 41 #2347

Tomsky, Judith

Decomposition series of a certain semigroup. *Protugal. Math.* 26 (1967), 293-298. (J. L. Chrislock) 41 #1908

On the minimal Lie ideals of a ring with descending chain condition. *Portugal. Math.* 26 (1967), 349-352. (E. M. Patterson) 41 #253

Tomter, Per

A new proof for Følner's condition for maximally almost periodic groups. *Math. Scand.* 18 (1966), 25-34. (E. Følner) 33 #2760

Anosov flows on infra-homogeneous spaces. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif., 1968), pp. 299-327. Amer. Math. Soc., Providence, R.I.,* 1970. (T. Nagano) 43 #5552

Tomuţa, Floare Ileana

Generalizations of some functional equations integrated by J. Aczél and O. E. Gheorghiu. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 9 (1966), 77-85. (J. Aczél) 37 #4450

Ton, Bui An

On nonlinear elliptic boundary-value problems. *Bull. Amer. Math. Soc.* 72 (1966), 307-313. (R. Beals) 32 #6053

Singular perturbations of non-linear elliptic and parabolic variational boundary-value problems. *Canad. J. Math.* 18 (1966), 861-872. (Colin Clark) 33 #6104

Elliptic boundary problems with a small parameter. *J. Math. Anal. Appl.* 14 (1966), 341-358. (R. Beals) 33 #4452

Asymptotic distribution of eigenvalues and eigenfunctions for general linear elliptic boundary value problems. *Trans. Amer. Math. Soc.* 122 (1966), 516-546. (M. Schechter) 33 #6175

Inhomogeneous nonlocal boundary value problems for strongly nonlinear elliptic operators. *An. Acad. Brasil. Ci.* 39 (1967), 339-343. (R. Beals) 38 #414

Mixed initial boundary-value problems for semi-linear parabolic equations. *Duke Math. J.* 34 (1967), 481-491. (R. Hersh) 38 #427

Singular perturbations and nonlinear parabolic boundary value problems. *J. Math. Anal. Appl.* 17 (1967), 248-261. (P. C. Fife) 34 #7986

Non-local elliptic boundary-value problems. *Canad. J. Math.* 20 (1968), 1365-1382. (P. Cooperman) 39 #614

(with Browder, Felix E.) Nonlinear functional equations in Banach spaces and elliptic super-regularization. *Math. Z.* 105 (1968), 177-195. (Melvyn S. Berger) 38 #582

(with Browder, Felix E.) Convergence of approximants by regularization for solutions of nonlinear functional equations in Banach spaces. *Math. Z.* 106 (1968), 1-16. (J. Schröder) 39 #829

Nonlinear elliptic convolution equations of Wiener-Hopf type in a bounded region. *Pacific J. Math.* 24 (1968), 577-587. (H. Widom) 37 #1920

Nonlinear operators on convex subsets of Banach spaces. *Math. Ann.* 181 (1969), 35-44. (D. R. Arterburn) 39 #4717

Nonlinear parabolic initial-value problems. *Indiana Univ. Math. J.* 20 (1970/71), 69-80. (J. E. Lagnese) 41 #4036

On the exterior problem for quasilinear elliptic equations. *J. Math. Anal. Appl.* 31 (1970), 24-36. (H. Beckert) 41 #7293

Periodic solutions of non-linear evolution equations in Banach spaces. *Canad. J. Math.* 23 (1971), 189-196. (A. Elcrat) 42 #8114

Asymptotic distribution of eigenvalues and eigenfunctions of a general class of elliptic pseudo-differential operators. *Illinois J. Math.* 15 (1971), 290-301. (F. Cardoso) 44 #864

On strongly nonlinear parabolic equations. *J. Functional Analysis* 7 (1971), 147-155. (D. E. Edmunds) 44 #4583

Tondeur, Philippe

Sur certaines connexions naturelles d'un groupe de Lie. *Topologie et Géométrie Différentielle (Séminaire Ch. Ehresmann, Vol. VI, 1964), 9 pp. Inst. Henri Poincaré, Paris,* 1964. (Y. Muto) 30 #5245

Ein Beispiel zur allgemeinen Topologie: Die Topologie einer Äquivalenzrelation. *Ann. Acad. Sci. Fenn. Ser. A I No.* 344 (1964), 7 pp. (J. Mayer) 29 #6461

Champs invariants de *p*-plans sur un espace homogène. *C. R. Acad. Sci. Paris* 259 (1964), 4473-4475. (W. M. Boothby) 30 #2445

Ein invariantes Vektorraumfeld auf einem reduktiven, lokalsymmetrischen homogenen Raum ist involutorisch. *Math. Z.* 85 (1964), 382-384. (K. Yano) 31 #6181

* Introduction to Lie groups and transformation groups. Lecture Notes in Mathematics, 7. *Springer-Verlag, Berlin-New York,* 1965. vii + 176 pp. (K. Nomizu) 33 #1396

* Categorías y functores. (Spanish) [Categories and functors] Cursos y Seminarios de Matemática, Fasc. 21. *Universidad de Buenos Aires, Buenos Aires,* 1965. 98 pp. (P. Abellanas) 35 #229

Invariant subbundles of the tangentbundle of a reductive homogeneous space. *Math. Z.* 89 (1965), 420-421. (W. M. Boothby) 32 #410

(with Kamber, F. W.) On flat bundles. *Bull. Amer. Math. Soc.* 72 (1966), 846-849. (R. Brown) 33 #6631

Invariant sub-bundles of the tangent bundle of a homogeneous space. *Canad. J. Math.* 18 (1966), 629-634. (R. Hermann) 34 #730

(with Greub, Werner) On sectional curvatures and characteristic of homogeneous spaces. *Proc. Amer. Math. Soc.* 17 (1966), 444-448. (K. Nomizu) 32 #6369

(with Kamber, F.) Flat bundles and characteristic classes of group-representations. *Amer. J. Math.* 89 (1967), 857-886. (K. H. Mayer) 36 #3374

(with Kamber, F.) The characteristic homomorphism of flat bundles. *Topology* 6 (1967), 153-159. (H. Suzuki) 34 #8429

* (with Kamber, Franz) Flat manifolds. Lecture Notes in Mathematics, No. 67. *Springer-Verlag, Berlin-New York,* 1968. iv + 53 pp. (N. H. Kuiper) 38 #6618

(with Kamber, F. W.) Flat manifolds with parallel torsion. *J. Differential Geometry* 2 (1968), 385-389. (S. Murakami) 40 #8075

Variétés plates. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1035-1037. (N. J. Hicks) 38 #6619

Tondl, Aleš

On the combination resonance of a non-linear system with two degrees of freedom. (French, Russian and German summaries) *Rev. Méc. Appl.* 8 (1963), 573-588. (W. A. Coppel) 32 #5983

(with Tomáš, Josef) On the existence of subultraharmonic resonance of a single-mass nonlinear system excited by periodic force. (German and Russian summaries) *Nonlinear Vibration Problems, Vol. 8, pp. 11-22. Państw. Wydawn. Nauk., Warsaw,* 1967. (Editors) 37 #4342

Semi-stochastic approach to stability analysis for arbitrary disturbances. (German summary) *Acta Tech. ČSAV* 16 (1971), 214-238. (W. D. Collins) 44 #8009

Tondl, Ladislav

Antinomy of "Liar" and antinomy of synonymous names. (Czech summary) *Kybernetika (Prague)* 2 (1966), 14-30. 33 #5448

Tondra, Richard J.

Characterization of connected 2-manifolds without boundary which have finite domain rank. *Proc. Amer. Math. Soc.* 22 (1969), 479-482. (F. Burton Jones) 39 #6284

Surfaces of finite domain rank. *Proc. Amer. Math. Soc.* 26 (1970), 181-184. (C. E. Burgess) 42 #2446

Engulfing continua in an *n*-cell. *Trans. Amer. Math. Soc.* 158 (1971), 465-479. (R. B. Sher) 43 #5509

Tong, Alfred E.

Diagonal nuclear operators on l_p spaces. *Trans. Amer. Math. Soc.* 143 (1969), 235-247. (R. D. McWilliams) 40 #4786

Diagonal submatrices of matrix maps. *Pacific J. Math.* 32 (1970), 551-559. (J. Lindenstrauss) 41 #7460

Projecting the space of bounded operators onto the space of compact operators. *Proc. Amer. Math. Soc.* 24 (1970), 362-365. (J. Lindenstrauss) 44 #831

(with Friedman, N. A.) On additive operators. *Canad. J. Math.* 23 (1971), 468-480. (K. Sundaresan) 44 #785

Tong, E.

(with Cheung, T. H.; Wang, K. P.) Remark on memory function approach and linear response theory. *Canad. J. Phys.* 48 (1970), 1631-1633. (Authors' summary) 42 #8838

Tong, Hing

(with Lorch, Edgar R.) Uniform approximation of Baire functions by continuous functions. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 47-48. (J. C. Oxtoby) 34 #7759 (with Kozlowski, George) Two problems of Hewitt on topological expansions. *Duke Math. J.* 33 (1966), 475-476. (J. M. Day) 34 #779

(with Lorch, Edgar R.) Continuity of Baire functions and order of Baire sets. *J. Math. Mech.* 16 (1967), 991-995. (R. Duda) 34 #6728

(with Lorch, Edgar Raymond) Characterization of certain compact topologies. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 13. (Editors) 41 #1007

(with Lorch, E. R.) Caractérisation de certaines topologies compacte. *Enseignement Math.* (2) 15 (1969), 153-157. (S. T. Lin) 40 #870

(with Lorch, E. R.) A completeness theorem on the group of Baire equivalences. *J. Math. Mech.* 19 (1969/70), 189-193. (S. T. Lin) 40 #1983

Non-existence of certain topological expansions. *Ann. Mat. Pura Appl.* (4) 86 (1970), 43-45. (H. Herrlich) 44 #3278

Solutions of problems of P. S. Alexandroff on extensions of topological spaces. *Ann. Mat. Pura Appl.* (4) 86 (1970), 47-51. (Roman Duda) 43 #1127

Tong, Kwang-chang. See Tung Kuang-ch'ang.

Tong, S. Y.

(with Ebert, P. M.) Convolutional Reed-Solomon codes. *Bell System Tech. J.* 48 (1969), 729-742. (G. Solomon) 40 #2420

Correction of synchronization errors with burst-error-correcting cyclic codes. *IEEE Trans. Information Theory* IT-15 (1969), 106-109. (Author's summary) 39 #2521

Systematic construction of self-orthogonal diffuse codes. *IEEE Trans. Information Theory* IT-16 (1970), 594-604. (Author's summary) 42 #9072

Character-correcting convolutional self-orthogonal codes. *Information and Control* 18 (1971), 183-202. (Author's summary) 42 #7407

Tong, Yung Liang

On partitioning a set of normal populations by their locations with respect to a control. *Ann. Math. Statist.* 40 (1969), 1300-1324. (E. J. Dudewicz) 39 #5001

Multi-stage interval estimations of the largest mean of k normal populations. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 272-277. 42 #3912

(with Sobel, Milton) Optimal allocation of observations for partitioning a set of normal populations in comparison with a control. *Biometrika* 58 (1971), 177-181. (Authors' summary) 43 #8182

Tong Van Duc

Connexions et structures particulières sur les fibres vectoriels. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A661-A664. (J. Vilms) 41 #2576

Tonin, M.

(with Bertocchi, L.; McMillan, M.; Predazzi, E.) Vertex renormalization in potential theory. (Italian summary) *Nuovo Cimento* (10) 31 (1964), 1352-1363. (V. de Alfaro) 29 #968

(with Bassetto, A.; Ciccariello, S.) Lightlike solutions of the Bethe-Salpeter equation. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 292-297. (C. R. Hagen) 32 #8761

Tonjan, A. O.

* (with Tonjan, V. A.) Словар математических терминов по английском, русском, армянском, немецком, французском языках. (Russian) [Dictionary of mathematical terminology in English, Russian, Armenian, German and French] *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1965. 240 *pp.* 32 #8

Tonjan, V. A.

* (with Tonjan, A. O.) Словар математических терминов по английском, русском, армянском, немецком, французском языках. (Russian) [Dictionary of mathematical terminology in English, Russian, Armenian, German and French] *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1965. 240 *pp.* 32 #8

Tonkov, E. L.

(withŽevlakov, G. N.; Komlenko, Ju. V.) Existence theorems for nonlinear boundary value problems. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 626-628. (P. B. Bailey) 34 #1592

(with Tonkov, L. V.) The question of an estimate of the interval of non-oscillation of solutions of the equation $x^{(n)} + ax(t) = 0$. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 346-348. (Authors' introduction) 36 #2891

(withŽevlakov, G. N.; Komlenko, Ju. V.) The existence of solutions of nonlinear ordinary differential equations with linear boundary conditions. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1814-1820. (P. B. Bailey) 38 #3501

(with Komlenko, Ju. V.) A periodic boundary value problem for an ordinary second order differential equation. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 17-19. (G. Maess) 37 #1709

(with Jutkin, G. I.) Periodic solutions, and stability of a linear differential equation with periodic coefficients. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1990-2001. (A. D. Ziebur) 40 #7556

The second order periodic equation. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 296-299. (C. E. Langenhop) 38 #6159

Tonkov, L. V.

(with Tonkov, E. L.) The question of an estimate of the interval of non-oscillation of solutions of the equation $x^{(n)} + as(t) = 0$. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 346-348. (Authors' introduction) 36 #2891

Tonkov, T. T.

A theorem on the zeros of a polynomial. (Bulgarian. Russian summary) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964), *kn.* 2, 9-14 (1965). (E. Inaba) 36 #363

(with Karanikolov, Hristo) Some theorems on the distribution of the zeros of polynomials. (Bulgarian. Russian and English summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964), *kn.* 3, 15-26 (1965). (E. Inaba) 36 #1615

The distribution of the zeros of polynomials. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964), *kn.* 3, 27-34 (1965). (Z. Rubinstein) 36 #2784

On moduli of zeros of polynomials. (Russian) *Rev. Roumaine Math. Pures Appl.* 9 (1964), 737-740. (P. L. Duren) 31 #5951

A bound for the moduli of zeros of polynomials. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 748-749. (A. J. Lohwater) 29 #4878

The distribution of the zeros of a polynomial. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (1965), *kn.* 1, 37-56 (1966). (Andrzej Białynicki-Birula) 36 #3963

Two theorems concerning the distribution of the zeros of polynomials. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (1965), *kn.* 2, 13-22 (1967). (Z. Rubinstein) 36 #2783

A method for estimating the absolute value of the zeros of polynomials. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (1965), *kn.* 3, 17-40 (1966). (D. A. Brannan) 36 #1617

An estimate for the roots of polynomials. (Russian) *Univ. Beograd. Publ. Elktrotehn. Fak. Ser. Mat. Fiz. No.* 132-142 (1965), 29-31. (G. Biriuk) 34 #4460

* (with Karanikolov, Hr.) Неопределени уравнения. (Bulgarian) [Indeterminate equations] *Nauka i Izkustvo, Sofia,* 1967. 123 *pp. (loose errata)* (Editors) 36 #6347

Tonkova, V. S.

(with Ogandžanjan, V. G.; Ragimhanov, R. K.) Hammerstein's integral equation with a discontinuous operator. (Russian) *Sibirsk Mat. Ž.* 11 (1970), 558-565. (M. M. Day) 42 #4984

Tonne, Philip C.

Power-series and Hausdorff matrices. *Pacific J. Math.* 21 (1967), 189-198. (T. H. Hildebrandt) 34 #8027

Bounded series and Hausdorff matrices for absolutely convergent sequences. *Pacific J. Math.* 26 (1968), 415-420. (E. P. Merkes) 38 #2291

(with Johnson, Gordon G.) Functions of bounded variation and moment-sequences of continuous functions. *Proc. Amer. Math. Soc.* 19 (1968), 1097-1099. (P. V. Reichelderfer) 38 #280

On the convergence of Bernstein polynomials for some unbounded analytic functions. *Proc. Amer. Math. Soc.* 22 (1969), 1-6. (K. R. Unni) 40 #2884

Tonnelat, Marie-Antoinette

Étude critique de la représentation de la matière dans la théorie asymétrique du champ unifié. *Les théories relativistes de la gravitation (Royaumont, 1959), pp.* 199-223. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2059

Les espoirs et les difficultés de la théorie du champ unifié d'Einstein. *Recent developments in general relativity, pp.* 107-118. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2060

* Les vérifications expérimentales de la relativité générale. *Masson et Cie, Éditeurs, Paris,* 1964. xiv + 307 *pp.* (F. A. E. Pirani) 34 #1069

(with Lederer, S.) Identités et lois du mouvement déduites d'un lagrangien. Application à la définition de l'impulsion-énergie dans une théorie euclidienne de la gravitation. (English and Italian summaries) *Nuovo Cimento* (10) 34 (1964), 883-900. (P. Havas) 33 #2371

* Les théories unitaires de l'électromagnétisme et de la gravitation. Traité de Physique Théorique et de Physique Mathématique, Tome XI. *Gauthier-Villars, Éditeur, Paris,* 1965. xxiii + 522 *pp.* (P. G. Bergmann) 34 #8789

Sur le décalage des fréquences en relativité générale. *C. R. Acad. Sci. Paris* 260 (1965), 4155-4158. (F. A. E. Pirani) 31 #6648

Mouvement d'une particule dans un champ de gravitation extérieur. Rayonnement gravitationnel. *C. R. Acad. Sci. Paris* 261 (1965), 2165-2168. (H. Treder) 32 #2171

Théories euclidiennes de la gravitation. *Rend. Mat. e Appl.* (5) 24 (1965), 401-507. (P. G. Bergmann) 34 #7188

* Einstein's unified field theory. With a preface by André Lichnerowicz. Translated from the French by Richard Akerib. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. xi + 186 *pp.* (Editors) 32 #9004

Tõnnov, M.
On the connection between the summability factors, Fourier coefficients and multipliers. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 154-164. (G. Goes) 33 #6289
T-complementary spaces of Fourier coefficients. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 192 (1966), 65-81. (G. Goes) 36 #3062a
Summability factors, Fourier coefficients and multipliers. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 192 (1966), 82-97. (G. Goes) 36 #3062b

Tonojan, R. N.
Logical schemes for algorithms and their equivalent transforms. (Russian) *Problemy Kibernet. No.* 14 (1965), 161-188. (J. Kuntzmann) 34 #4074
Unique tests for contact schemes that realize linear functions. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 6 (1971), *no.* 1, 61-66. (E. Maliszewski) 44 #8060

Tonojan, V. S.
A two-dimensional contact problem for an elastic quarter-plane with fixed vertical edge. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 37 (1963), 249-258. (L. S. D. Morley) 29 #777
(with Bablojan, A. A.) A two-dimensional problem for an orthotropic plate in the form of an annular sector. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 5, 27-42. (A. Sawczuk) 30 #2735

Tonolini, F.
(with Cristofori, F.; Sona, P. G.) The statistics of the eigenvalues of random matrices. *Nuclear Phys.* 78 (1966), 553-556. (M. L. Mehta) 33 #2311

Tonooka, Keinosuke
Subspace theory of an *n*-dimensional space with an algebraic metric. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 34-40. (H. Rund) 29 #2754

Tonowoka, Keinosuke. See Tonooka, Keinosuke.

Ton That Long
Représentations canoniques des processus gaussiens. (English summary) *Ann. Inst. H. Poincaré Sect. B (N.S.)* 4 (1968), 179-191. (E. J. Hannan) 39 #2213
Sur le calcul fonctionnel d'une contraction complètement non unitaire. (English summary) *Proc. of the Functional Analysis Week (Aarhus, 1969), pp.* 26-36. *Matematisk Inst., Aarhus Univ., Aarhus,* 1969. (W. B. Arveson) 41 #858
Sur le calcul fonctionnel d'une contraction complètement non unitaire. I, II. (English summary) *Ann. Inst. H. Poincaré Sect. B (N.S.)* 5 (1969), 113-121; *ibid. (N.S.)* 5 (1969), 213-231. (T. Ando) 42 #8320
Prolongements des contractions dans l'espace de Hilbert. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1371-A1374. (C. R. Putnam) 42 #8328
Études spectrales des contractions et de leurs décompositions pseudo-directes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1427-A1429. (W. B. Arveson) 42 #879
Utilisation des nombres ordinaux dans l'étude spectrale des opérateurs linéaires bornés dans l'espace de Hilbert. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1304-A1307. (From the author's introduction) 44 #4560

Tonti, Enzo
Condizioni iniziali nei principi variazionali. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 100 (1966), 982-988. (J. Hersch) 35 #4592
Variational formulation for linear equations of mathematical physics. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 75-82. (H. S. P. Grässer) 37 #6808
Variational formulation of nonlinear differential equations. I. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 137-165. (M. K. V. Murthy) 41 #891
Variational formulation of nonlinear differential equations. II. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 262-278. (M. K. V. Murthy) 41 #892
Sulla struttura delle teorie lineari di campo. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 104 (1970), 161-187. (J. J. Moreau) 43 #2533
On the formal structure of continuum mechanics. I: Deformation theory. (Italian summary) *Meccanica—J. Italian Assoc. Theoret. Appl. Mech.* 5 (1970), 22-30. (Author's summary) 41 #7903

Tonti, Norman E.
(with Trahan, Donald H.) Analytic functions whose real parts are bounded below. *Math. Z.* 115 (1970), 252-258. (W. C. Royster) 41 #7116

Tonyan, V. A. See Tonjan, V. A.

Tooley, John R.
(with Roberts, Richard A.) Estimation with finite memory. *IEEE Trans. Information Theory* IT-16 (1970), 685-691. (Authors' summary) 42 #9059

Toom, A. L.
Complexity of realization of binary functions with small subfunctions. *Problemy Kibernet. No.* 18 (1967), 83-90 *(Russian); translated as Systems Theory Res.* 18 (1968), 77-84. (H. Rohleder) 38 #6891
A certain family of homogeneous nets of formal neurons. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 49-52. (A. Salomaa) 38 #6890

Toombs, G. A.
(with Stevens, K. W. H.) Green functions in solid state physics. *Proc. Phys. Soc.* 85 (1965), 1307-1308. (K. Kumar) 31 #3182
(See also Kufner, Alois; Kadlec, Jan, 43 #3718)

Toomer, G. J.
A further note on Tamil astronomical tables. *Centaurus* 9 (1963/64), 254-256. (Editors) 29 #1124
The size of the lunar epicycle according to Hipparchus. *Centaurus* 12 (1967/68), 145-150. (B. Goldstein) 41 #5148
The solar theory of az-Zarqāl. A history of errors. *Centaurus* 14 (1969), 306-336. (E. B. Allen) 41 #5150

Toomre, Alar
(with Rott, Nicholas) On the pressure induced by the boundary layer on a flat plate in shear flow. *J. Fluid Mech.* 19 (1964), 1-10. (M. D. Van Dyke) 29 #3076

Tooper, R. F.
(with Ng, Edward W.; Devine, C. J.) Chebyshev polynomial expansion of Bose-Einstein functions of orders 1 to 10. *Math. Comp.* 23 (1969), 639-643. (Authors' summary) 40 #1002a
(with Ng, E. W.; Devine, C. J.) Table of Chebyshev polynomial expansions of Bose-Einstein functions of orders 1-10. *Math. Comp.* 23 (1969), no. 107, *loose microfiche suppl.* C1-D3. (Authors' summary) 40 #1002b

Tooper, Robert F.
General relativistic polytropic fluid spheres. *Astrophys. J.* 140 (1964), 434-459. (A. H. Taub) 32 #977
Adiabatic fluid spheres in general relativity. *Astrophys. J.* 142 (1965), 1541-1562. (A. H. Taub) 32 #9021
The "standard model" for massive stars in general relativity. *Astrophys. J.* 143 (1966), 465-482. (C. W. Misner) 33 #2403

Topa, S.
Sur une généralisation des notions des vecteurs de Frenet et des courbures d'une courbe dans R_n. *Ann. Polon. Math.* 17 (1965), 173-178. (H. W. Guggenheimer) 32 #2986
On a generalization of homogeneous functions. *Publ. Math. Debrecen* 13 (1966), 289-300. (J. Aczél) 35 #612
Determination of differential concomitants of the first class of a pair of covariant vectors in a two-dimensional space. *Ann. Polon. Math.* 19 (1967), 337-341. (M. Kuczma) 36 #4462
Determination of differential concomitants of the first class of a pair of contravariant vectors in a two-dimensional space. *Ann. Polon. Math.* 19 (1967), 343-345. (M. Kuczma) 36 #4463
On a generalization of the functional equation for the harmonic ratio of four points on a projective line over an arbitrary commutative field. *Ann. Polon. Math.* 23 (1970/71), 65-72. (W. Benz) 42 #5147

Topčibašev, M. A.
(with Allahkuliev, A. S.) Methods for the solution of a system of equations of the dynamics of an element (with distributed interconnections) of a controlled object. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 3, 123-129. (E. Leimanis) 33 #8130

Topenčarov, Vladimir V.
Sur certains problèmes du mouvement plan. *Bull. Math. Soc. Sci. Math. Phys. R.P. Roumaine (N.S.)* 6(54) (1962), 117-122 (1964). (H. R. Müller) 32 #622
(with Česankov, Božidar) On the kinematics of multi-dimensional Euclidean spaces. (Russian summary) *C. R. Acad. Bulgare Sci.* 16 (1963), 573-576. (B. Roth) 29 #5424; erratum, 42, p. 1822
Comparative analysis of the investigations on the foundations of differential geometry by V. V. Vagner and C. Ehresmann. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (1965), *kn.* 2, 27-36 (1967). 36 #2077
(with Česankov, Božidar; B"čvarov, Stefan) The kinematics of linear spaces. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (1965), *kn.* 2, 43-54 (1967). (D. P. Rašković) 36 #3528
Sur les éléments cinématiques et certaines propriétés du mouvement euclidien à trois dimensions. *Mathematica (Cluj)* 7(30) (1965), 163-190. (O. Bottema) 33 #8123
Abstract categories as universal algebras and their relation with groups. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 3 (1966), *kn.* 1, 33-51 (1967). (W. Narkiewicz) 40 #5520

Sur l'inclusion d'une catégorie de trois dans une catégorie de quatuors associée. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 13(17) (1967), *fasc.* 1-2, 25-29. (M. L. Laplaza) 37 #5264

Sur les algèbres universelles et la définition des catégories. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 13(17) (1967), *fasc.* 3-4, 5-9. (D. Pumplün) 39 #2846

Éléments d'une théorie de catégories *n*-aires. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A269-A272. (Jürgen Schmidt) 39 #281

(with Česankov, B.) Kinematic operator in multi-dimensional spaces. (Bulgarian and Russian summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Priložna Meh.* 3 (1967), *kn.* 2, 13-22 (1968). (H. R. Müller) 43 #4317

Relations binaires dans une catégorie abstraite. *C. R. Acad. Bulgare Sci.* 21 (1968), 741-744. (R. Fritsch) 39 2837

Relations dans les catégories. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1559-1582. (H. Gonshor) 39 #5661

Sur les *n*-catégories. *C. R. Acad. Bulgare Sci.* 22 (1969), 491-494. (R. Cornu) 40 #1456

A certain special *n*-category in the class of *n*-ary relations. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 3 (1966), *kn.* 2, 13-25 (1970). (Author's summary) 43 #143

Topencharov, V. See Topenčarov, Vladimir V.

Topentcharov, V. V. See Topenčarov, Vladimir V.

Töpfer, Hans-Joachim

* Über die Tschebyscheffsche Approximationsaufgabe bei nicht erfüllter Haarscher Bedingung. Hahn-Meitner-Institut für Kernforschung Berlin, Sektor Mathematik, HMI-B 40. *Hahn-Meitner-Institut für Kernforschung Berlin, Berlin-Wannsee,* 1965. 63 *pp.* (G. Meinardus) 33 #3017

Tschebyscheff-Approximation bei nicht erfüllter Haarscher Bedingung. *Z. Angew. Math. Mech.* 45 (1965), T81-T82. (Bruno Brosowski) 34 #3176

Tschebyscheff-Approximation und Austauschverfahren bei nicht erfüllter Haarscher Bedingung. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach, 1965), pp.* 71-89. *Birkhäuser, Basel,* 1967. (T. J. Rivlin) 37 #5585

Topkis, Donald M.

(with Veinott, Arthur F., Jr.) On the convergence of some feasible direction algorithms for nonlinear programming. *SIAM J. Control* 5 (1967), 268-279. (H. F. Karreman) 35 #4026

Cutting-plane methods without nested constraint sets. *Operations Res.* 18 (1970), 404-413. (A. F. Veinott, Jr.) 44 #2498

A note on cutting-plane methods without nested constraint sets. *Operations Res.* 18 (1970), 1216-1220. (M. Stoica) 43 #8376

Topoliansky, D. See Topoljans'kiĭ, D. B.

Topoljans'kiĭ, D. B.

Quasi-Hermitian interpolation polynomials for two variables. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 30-34. (Author's summary) 29 #2940

An application of interpolation polynomials for approximating the solution of boundary-value problems. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 299-302. (Author's summary) 29 #2577

Application of Hermitian interpolation polynomials for the approximate solution of integro-differential equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1965, 971-973. (M. Tomić) 33 #1686

The application of quasihermitian interpolational polynomials to the approximate solution of two-dimensional boundary value problems. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1965, 843-847. (Author's summary) 33 #893

On a choice of coordinate functions in direct methods of determination of eigenvalues and eigenfunctions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 135-138. 34 #2172

S. A. Čaplygin's theory of the "upper" and "lower" functions: Its development and application. (Russian) *History Methodology Natur. Sci., No. V, Math. (Russian), pp.* 75-79. *Izdat. Moskov. Univ., Moscow,* 1966. (S. H. Gould) 33 #5430

(with Žurakova, V. K.) The approximate solution of integro-differential equations by a generalized method of moments. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp.* 72-76. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (L. Guggenbuhl) 42 #8217

Topol'skiĭ, N. G.

(with Melihov, A. N.; Berštein, L. S.) A decomposition method for the structural synthesis of finite automata. I, II. (Russian. English summary insert) *Kibernetika (Kiev)* 1969, *no.* 5, 29-35; *ibid.* 1970, *no.* 3, 32-38. (J. Navrátilová) 44 #3800

Topolyanskiĭ, D. B. See Topoljans'kiĭ, D. B.

Topolyansky, D. B. See Topoljans'kiĭ, D. B.

Toponogov, V. A.

The metric structure of Riemannian spaces of non-negative curvature containing straight lines. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 1358-1369. (L. W. Green) 32 #3017

Some extremal theorems of Riemannian geometry. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1079-1103. (A. V. Pogorelov) 36 #5869

The metric structure of Riemannian spaces with nonnegative curvature which contain straight lines. *Amer. Math. Soc. Translations Ser. 2, Vol.* 70: 31 *Invited Addresses (8 in Abstract at the Internat. Congr. Math. (Moscow,* 1966*), pp.* 225-239. *Amer. Math. Soc., Providence, R.I.,* 1968. (Editors) 37 #6874

Extremal theorems for Riemannian spaces with curvature bounde from above. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 300-302. (A. V. Pogorelov) 38 #6504

An isoperimetric inequality for surfaces whose Gaussian curvature is bounded from above. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 144-157. (H. Busemann) 38 #6510

Theorems on minimizing paths in noncompact Riemannian spaces of positive curvature. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970) 537-539. (B. Cenkl) 41 #7579

Toporowska, Grażyna

The minimal norm problem and Pontriagin's maximum principle for Banach spaces. I. *Studia Math.* 33 (1969), 175-183. (P. L. Falb) 40 #823

Toppila, Sakari

Picard sets for meromorphic functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 417 (1967), 24 *pp.* (I. N. Baker) 37 #3003

Some remarks on the value distribution of entire functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 421 (1968), 11 *pp.* (Fred Gross 37 #2999

A remark on Bloch's constant for schlicht functions. *Ann. Acad. Sci. Fenn. Ser. A I No.* 423 (1968), 4 *pp.* (Editors) 38 #1248

Some remarks on exceptional values at Julia lines. *Ann. Acad. Sci. Fenn. Ser. A I No.* 456 (1970), 20 *pp.* (W. Schneider) 44 #435

Topping, David M.

Vector lattices of self-adjoint operators. *Bull. Amer. Math. Soc.* 69 (1963), 251-255. (S. Sherman) 31 #618

Vector lattices, Boolean rings and simple functions. *Portugal. Math.* 23 (1964), 199-204. (I. G. Amemiya) 32 #4524

Jordan algebras of self-adjoint operators. *Bull. Amer. Math. Soc.* 71 (1965), 160-164. (S. Sakai) 30 #1407

Jordan algebras of self-adjoint operators. *Mem. Amer. Math. Soc. No.* 53 (1965), 48 *pp.* (I. G. Amemiya) 32 #8198

Some homological pathology in vector lattices. *Canad. J. Math.* 17 (1965), 411-428. (I. G. Amemiya) 30 #4700

Vector lattices of self-adjoint operators. *Trans. Amer. Math. Soc.* 115 (1965), 14-30. (S. Sakai) 34 #6553

An isomorphism invariant for spin factors. *J. Math. Mech.* 15 (1966), 1055-1063. (S. Sakai) 33 #6430

A note on large measurable sets. *Amer. Math. Monthly* 74 (1967 680-682. (J. C. Oxtoby) 35 #4360

(with Fillmore, P. A.) Operator algebras generated by projections. *Duke Math. J.* 34 (1967), 333-336. (L. Longdon) 35 #751

(with Pearcy, Carl) Sums of small numbers of idempotents. *Michigan Math. J.* 14 (1967), 453-465. (C. R. Putnam) 36 #2006

Asymptoticity and semimodularity in projection lattices. *Pacific J. Math.* 20 (1967), 317-325. (P. A. Fillmore) 34 #4936

On a class of vector antilattices considered by Fuchs. *Publ. Math. Debrecen* 14 (1967), 207-210. (P. A. Fillmore) 36 #5657

(with Douglas, R. G.) Operators whose squares are zero. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 647-652. (S. Anastasio) 36 #5705

(with Brown, Arlen; Pearcy, Carl) Commutators and the strong radical. *Duke Math. J.* 35 (1968), 853-859. (H. Halpern) 38 #1534

On linear combinations of special operators. *J. Algebra* 10 (1968), 516-521. (C. R. Putnam) 37 #6770

Transcendental quasi-nilpotents in operator algebras. *J. Functional Analysis* 2 (1968), 342-351. (M. Takesaki) 38 #1535

UHF algebras are singly generated. *Math. Scand.* 22 (1968), 224-226 (1969). (J. Glimm) 39 #6097

(with Fillmore, Peter) A direct integral decomposition for certain operator algebras. *Amer. J. Math.* 91 (1969), 11-17. (N. Suzuki) 39 #6090

(with Pearcy, Carl) Commutators and certain II_1-factors. *J. Functional Analysis* 3 (1969), 69-78. (J. A. Erdos) 39 #789

(with Fillmore, Peter A.) Sums of irreducible operators. *Proc. Amer. Math. Soc.* 20 (1969), 131-133. (L. J. Wallen) 38 #1549

(with Pearcy, Carl) On commutators in ideals of compact operators. *Michigan Math. J.* 18 (1971), 247-252. (S. K. Berberian) 44 #2077

Topsøe, Flemming

Preservation of weak convergence under mappings. *Ann. Math. Statist.* 38 (1967), 1661-1665. (J. R. Blum) 36 #2180

An information theoretical identity and a problem involving capacity. *Studia Sci. Math. Hungar.* 2 (1967), 291-292. (L. L. Campbell) 36 #2433

On the connection between *P*-continuity and *P*-uniformity in weak convergence. (Russian summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 279-288. (J. R. Blum) 35 #5569

(with Billingsley, Patrick) Uniformity in weak convergence. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 1-16. (H. Bergström) 35 #326

A criterion for weak convergence of measures with an application to convergence of measures on *D*[0,1]. *Math. Scand.* 25 (1969), 97-104. (T. Hida) 40 #8117

Information theory—The descriptive approach to the entropy function. (Danish. English summary) *Nordisk Mat. Tidskr.* 18 (1970), 137-148. (Author's summary) 43 #5993

Compactness in spaces of measures. *Studia Math.* 36 (1970), 195-212. *(errata insert)* (V. S. Krishnan) 42 #3245

Toptygin, I. N.

* (with Batygin, V. V.) Сборник задач по электродинамике. (Russian) [Collection of problems on electrodynamics] Edited by M. M. Bredov. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1962. 480 *pp.* (Editors) 31 #2949a

* (with Batygin, V. V.) Problems in electrodynamics. Translated by S. Chomet. Edited by P. J. Dean. *Academic Press, London-New York; Infosearch, London,* 1965. iv + 494 *pp.* (Editors) 31 #2949b

Topurija, S. B.

Singular integrals and Fourier integrals. (Russian) *Trudy I i II Respubl. Konferenciĭ Matematikov Vys. Učebn. Zaved. Gruzinsk. SSR, pp.* 91-94. *Izdat. "Codna", Tbilisi,* 1964. (Editors) 33 #519

Singular double integrals taken over an infinite two-dimensional region. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 37 (1965), 513-520. (H. J. Landau) 32 #6149

Summability of double Fourier-Lebesgue series. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 38 (1965), 7-13. (J. Mitchell) 33 #504

On linear summation methods for Fourier-Laplace series. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 40 (1965), 11-18. (H. J. Landau) 32 #6143

Boundary properties of harmonic functions inside the unit sphere. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 41 (1966), 265-272. (S. P. Hastings) 34 #360

Existence of angular boundary values of functions harmonic in a ball. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 42 (1966), 521-527. (T. J. Reed) 34 #7817

Linear methods of summation of multiple Fourier-Stieltjes series. (Russian. Georgian summary) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 117 (1966), 179-196. (G. Goes) 34 #8081

Approximation of functions by de la Vallée-Poussin sums. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom* 1967, *no.* 6 (118), 3-6. 38 #3688

Summation of differentiated Fourier-Laplace series by Abel's method. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 54 (1969), 29-32. (D. P. Gupta) 40 #7715

The general solution of the Dirichlet problem for a ball. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 55 (1969), 25-28. (N. Boboc) 41 #5645

Classes of functions and Fourier-Laplace series. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1969, *no.* 5 (133), 19-32. (H. J. Landau) 43 #7858

A solution of the Dirichlet problem for half space. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 567-569. (Ja. A. Roĭtberg) 43 #702

A certain property of functions of two variables and multiple Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1046-1049. (V. M. Kokilašvili) 43 #5252

Toraev, A.

(with Ahundov, A. M.) On the solutions of a differential equation. (Russian) *Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk* 1964, *no.* 1, 21-23. (E. Leimanis) 29 #6088

The oscillatoriness of solutions of a third order linear differential equation. (Russian) *Izv. Akad. Nauk Turkmen. SSR Ser. Fiz.-Tehn. Him. Geol. Nauk* 1968, *no.* 3, 3-8. (A. D. Ziebur) 37 #3108

Toralballa, L. V.

Directional deviation norms and surface area. *Enseignement Math.* (2) 13 (1967), 111-118. (E. Silverman) 36 #5307

Piecewise flatness and surface area. *Ann. Polon. Math.* 21 (1969), 223-230. (F. J. Almgren, Jr.) 39 #2945

On continuous functions which are partially differentiable almost everywhere. *Canad. Math. Bull.* 12 (1969), 668-672. (B. K. Lahiri) 40 #2800

A geometric theory of surface area. I. Non-parametric surfaces. *Monatsh. Math.* 74 (1970), 462-476. (J. E. Brothers) 43 #6404

Toranzos, Fausto Alfredo

On a problem of B. Grünbaum. (Spanish. English summary) *Rev. Un. Mat. Argentina* 22, 103-106 (1964). (H. W. Guggenheimer) 30 #507

Spaces that admit only a certain type of convex metric. *Nieuw Arch. Wisk.* (3) 14 (1966), 252-254. (K. W. Kwun) 34 #5058

Immersion of convex metric spaces in E^n. (Spanish) *Math. Notae* 21 (1966/67), 29-53. (L. M. Blumenthal) 39 #870

Radial functions of convex and star-shaped bodies. *Amer. Math. Monthly* 74 (1967), 278-280. (G. C. Shephard) 34 #8279

Metric characterization of the *n*-cell. *Univ. Nac. Tucumán Rev. Ser. A* 17 (1967), 149-153. (J. Martin) 38 #2734

Torelli, Alessandro

Sulla teoria variazionale dei problemi ai limiti ellittici. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 573-617. (G. T. McAllister) 41 #5772

Torelli, Giovanni

Un complemento ad un teorema di J. L. Lions sulle equazioni differenziali astratte del secondo ordine. *Rend. Sem. Mat. Univ. Padova* 34 (1964), 224-241. (A. Martineau) 30 #3388

(with Andreassi, Gabriele) Su una equazione di tipo iperbolico non lineare. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 134-147. (M. Schechter) 33 #2953

(with de Simon, Luciano) Soluzioni periodiche di equazioni a derivate parziali di tipo iperbolico non lineari. *Rend. Sem. Mat. Univ. Padova* 40 (1968), 380-401. (S. Cinquini) 37 #4415

Soluzioni periodiche dell'equazione non lineare $u_{tt}-u_{xx}+\varepsilon F(x,t,u) = 0$. (English summary) *Rend. Ist. Mat. Univ. Trieste* 1 (1969), 123-137. (C. Vaghi) 42 #6403

Toren, E. C., Jr.

(See Malmstadt, H. V.; Enke, C. G., 29 #910)

Torgašev, V. A.

(with Kipšidze, Z. Š.) Double-error correcting arithmetical codes. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 54 (1969), 549-552. (J. Dénes) 41 #5101

Torgersen; Erik Nikolai

On a class of combined "one-way classification (Model II)-covariance" models. *Skand. Aktuarietidskr.* 1963, 167-172 (1964). (E. L. Lehmann) 30 #2636

Minimalsufficiency of the order statistic in the case of translation- and scale parameters. *Skand. Aktuarietidskr.* 1965, 16-21 (1966). (S. S. Gupta) 35 #6305

Comparison of experiments when the parameter space is finite. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 219-249. (R. H. Farrell) 44 #1139

Torgerson, Ronald

Field-theoretic formulation of the optical model at high energies. *Phys. Rev.* (2) 143 (1966), 1194-1215. (J. Mathews) 33 #5269

Torīcina, G. D.

Construction of a solution of the equation $\Delta u = a(x) + b(x)u + c(x)u^2 + \delta u/\delta x_1 + \delta u/\delta x_2 + \delta u/\delta x_3$ with a singularity at the origin. (Russian) *Vestnik L'vov. Politehn. Inst. No.* 8 (1965), 38-41. (A. Biriuk) 33 #2945

Solutions with a point singularity for quasilinear equations. (Ukrainian. Russian summary) *Visnik L'vīv. Polītehn. Īnst. No.* 31 (1969), 44-50, 104. (V. Komkov) 43 #3601

Toricyna, G. D. See Torīcina, G. D.

Torii, Koji

(with Kasami, Tadao; Ozaki, Hiroshi) Generalized sequential machine mappings of regular set to regular set. (With appendix) *Electron. Commun. Japan* 48 (1965), 15-24. (S. Ginsburg) 34 #1195

(with Kasami, Tadao; Ozaki, Hiroshi) Generalized sequential machine mappings of finite state languages to finite state languages. *Tech. Rep. Osaka Univ.* 16 (1966), 71-88. (Authors' summary) 33 #7137

(with Kasami, Tadao; Ozaki, Hiroshi) Supplement to: "Generalized sequential machine mappings of finite state languages to finite state languages". *Tech. Rep. Osaka Univ.* 17 (1967), 9-12. (Authors' summary) 35 #6495

(with Kasami, T.) A syntax-analysis procedure for unambiguous context-free grammars. *J. Assoc. Comput. Mach.* 16 (1969), 423-431. (Authors' summary) 39 #3931

Torii, Tatsuo

Inversion of tridiagonal matrices and the stability of tridiagonal systems of linear equations. *Information Processing in Japan* 6 (1966), 41-46. (J. Vandergraft) 38 #1819

Inversion of tridiagonal matrices and the stability of tridiagonal systems of linear equations. *Tech. Rep. Osaka Univ.* 16 (1966), 403-414. (James H. Wilkinson) 35 #6347

(with Yoshioka, Toshihiko) On the separation of all roots of a polynomial by determining the number of roots in the unit circle. *Information Processing in Japan* 7 (1967), 48-53. (A. S. Householder) 38 #2946

(with Makinouchi, Saburo) An efficient algorithm for Chebyshev expansion. *Information Processing in Japan* 8 (1968), 89-92. (G. Meinardus) 41 #4773 (with Makinouchi, Saburo) An efficient algorithm for Chebyshev expansion. *Tech. Rep. Osaka Univ.* 18 (1968), 287-293. (Editors) 44 #7713

Torkalanov, Kr. See T″rkalanov, Kr.

Törn, A.

(with Qvist, B.) Calculation of some energy integrals with the Monte Carlo method. *Acta Acad. Abo. Math. Phys.* 23, *no.* 8, 12 *pp.* (1963). (J. L. Gammel) 29 #1945

Törnebohm, Håkan

Evidential support. *Acta Philos. Fenn. Fasc.* 18 (1965), 267-276. (G. Kreisel) 33 #6662

Tornehave, Hans

On entire functions almost periodic in several directions. *Math. Scand.* 16 (1965), 116-120. (L. V. Ahlfors) 33 #1458

Tornehave, Jørgen

Immersions of complex flagmanifolds. *Math. Scand.* 23 (1968), 22-26 (1969). (L. S. Husch) 40 #4970

Tornheim, Leonard

Convergence in nonlinear regression. *Technometrics* 5 (1963), 513-514. 32 #1825

Convergence of multipoint iterative methods. *J. Assoc. Comput. Mach.* 11 (1964), 210-220. (W. M. Kincaid) 29 #2933

Convexity in the theory of equations. *Amer. Math. Monthly* 76 (1969), 391-394. (H. J. Biesterfeldt, Jr.) 39 #7048

Törnig, W.

Über Differenzenverfahren in Rechteckgittern zur numerischen Lösung quasilinearer hyperbolischer Differentialgleichungen. *Numer. Math.* 5 (1963), 353-370. (W. Wasow) 29 #2998

(with Stetter, Hans J.) General multistep finite difference methods for the solution of $u_{xy} = f(x,y,u,u_x, u_y)$. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 281-298. (M. Lees) 29 #6644

(with Ziegler, Martin) Bemerkungen zur Konvergenz von Differenzapproximationen für quasilineare hyperbolische Anfangswertprobleme in zwei unabhängigen Veränderlichen. (English and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 201-210. (W. G. Strang) 34 #5325

Über Konvergenzbereiche von Differenzapproximationen bei quasilinearen hyperbolischen Anfangswertproblemen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 169-176. *Birkhäuser, Basel,* 1968. (J. Kopáček) 42 #5465

* (with Collatz, L.; Nicolovius, R.) Mathematische Hilfsmittel des Ingenieurs. Teil II. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, H. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 140. *Springer-Verlag, Berlin-New York,* 1969. xx + 684 *pp.* (E. Kreyszig) 40 #8315

(with Meis, Th.) Iterative Lösung nichtlinearer Gleichungssysteme und Diskretisierungsverfahren bei elliptischen Differentialgleichungen. (English summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 281-294. (A. R. Mitchell) 42 #5460

di Toro, M. See Di Toro, M.

Toró, Tiberiu I.

On a matrix representation of the fundamental thermodynamic relations. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 319-327. (Author's summary) 30 #2824

On the Ivanenko-Fock coefficients in a non-local spin connexion. (Romanian. English and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 245-248. (Author's summary) 32 #972

Sur une généralisation de la connexion de spin pour le cas non local. *C. R. Acad. Sci. Paris* 259 (1964), 307-309. (P. G. Bergmann) 29 #6916

On a four-component spinorial equation for neutrino in the presence of gravitation in the case of a nonlocal spin connection. *Nuovo Cimento* (10) 34 (1964), 1391-1393. (R. L. Ingraham) 32 #5334

Sur une extension non locale du formalisme de Utiyama. *C. R. Acad. Sci. Paris* 261 (1965), 2593-2596. (R. L. Ingraham) 32 #8780

On a four-component spinorial equation for neutrino in the presence of gravitation in the case of a nonlocal spin connection. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 939-942. (Editors) 34 #5494

On the Heisenberg nonlinear spinor field equation in the presence of gravitation for a nonlocal spin connection. *Acta Phys. Acad. Sci. Hungar.* 20 (1966), 197-199. 32 #6980

On spinor equations for particles with higher spins in non-Euclidean spaces. (Romanian. English summary) *An. Univ. Timişoara Ser. Şti. Fiz.-Chim.* 7 (1969), 99-106. (R. Roşca) 42 #8862

On spinor equations in Finsler spaces. (Romanian. English summary) *An. Univ. Timişoara Ser. Şti. Fiz.-Chim.* 7 (1969), 107-113. (R. Roşca) 42 #8435

Török, Éva

On the representation of *n*th grade mappings. (Hungarian) *Mat. Lapok* 19 (1968), 143-146. (J. Dénes) 39 #2895

Torondžadze, A. F.

The determination of unknown parameters on the basis of the processing of results of experiments. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 2 (1961), 257-281 (1962). 32 #3199

A certain problem with continuous time in inventory theory. (Russian. Georgian summary) *Thbilis. Saḫelmc. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 137-147. *(loose errata)* (S. Cruceanu) 43 #1611

A certain generalization of a problem with continuous time in inventory theory. (Russian. Georgian summary) *Thbilis. Saḫelmc. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 149-152. (S. Crucean 43 #1612

Toropova, G. N.

(with Tureckiĭ, A. H.) An estimate for approximation of functions satisfying a Lipschitz condition by the Fejér-Hermite interpolation formula. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz. Mat. Navuk* 1967, *no.* 1, 76-92. (Bl. Sendov) 35 #640

Torošelidze, I.

On an infinite system of linear integral equations of Volterra type. (Georgian. Russian summary) *Gruzin. Politehn. Inst. Trudy* 1963, *no.* 8 (93), 63-71. (B. Hvedelidze (RŽMat 1964 #9 B306)) 31 #6104

On an infinite system of singular integral equations of Volterra type. (Georgian. Russian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964), 235-241. (Author's summary) 31 #3810

Asymptotic representation of solutions of certain systems of nonlinear differential equations. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 42 (1966), 285-292. (J. Rausen) 3 #443

On a non-linear integral equation. (Russian. Georgian summary *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 117 (1966), 255-263. (T. Leżański) 35 #688

The asymptotic behavior of solutions of certain nonlinear differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 926-940. (J. W. Heidel) 36 #2904

The asymptotic behavior of solutions of certain systems of nonlinear differential equations. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1969, *no.* 5 (133), 117-125. (V. Šeda) 44 #1885

Toro-Vizcarrondo, Carlos

(with Wallace, T. D.) A test of the mean square error criteri for restrictions in linear regression. *J. Amer. Statist. Assoc.* 63 (1968), 558-572. 38 #829

Torrance, Ellen

Maximal C^*-subalgebras of a Banach algebra. *Proc. Amer. Math. Soc.* 25 (1970), 622-624. (T. W. Palmer) 41 #4265

Strictly convex spaces via semi-inner-product space orthogonality. *Proc. Amer. Math. Soc.* 26 (1970), 108-110. (D. O. Koehler) 41 #5943

Torrence, R. J.

(with Newman, E. T.; Couch, E.; Chinnapared, K.; Exton, A.; Prakash, A.) Metric of a rotating, charged mass. *J. Mathematical Phys.* 6 (1965), 918-919. (A. H. Klotz) 31 #3201

(with Unti, T. W. J.) Theorem on gravitational fields with geodesic rays. *J. Mathematical Phys.* 7 (1966), 535-538. (Gerald Rosen) 32 #5335

Torres, A. Pereira. See Pereira Torres, A.

Torres, Guillermo

A canonical chain projection. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 2 (1962), 17-23. (H. B. Griffiths) 30 #2498

On the Alexander matrix of a chain. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 3 (1963), 21-27. (Editors) 30 #2499

Torres, J.

(with Briones, F.; García de Viedma Alonso, Luis) On the integration of strongly oscillatory functions. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 24 (1964), 99-102. (A. A. Armendáriz) 31 #877

Torres, W. T.

(with Hu. T. C.) Shortcut in the decomposition algorithm for shortest paths in a network. *IBM J. Res. Develop.* 13 (1969), 387-390. (Authors' summary) 39 #5251

Torres Iglesias, Miguel

* Sobre los grupos finitos π-separables. (Spanish. Loose English summary) [On finite π-separable groups] Memoria presentada para optar al grado de Doctor en Ciencias Matemáticas. *Facultad de Ciencias, Universidad de Zaragoza, Zaragoza,* 1969. v + 61 *pp.* (O. H. Kegel) 41 #8523

Extension of abelian and of nilpotent π-groups by π'-groups. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 30 (1970), 257-262. (J. Sancho San Román) 44 #1733

Torres Vida, J.

(with García de Viedma Alonso, L.) Numerical solution of linear Volterra integral equations by means of expansions in series of Čebyšev polynomials. (Spanish) *Proc. Fifth Annual Reunion of Spanish Mathematicians (Valencia, 1964) (Spanish) pp.* 161-170. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1967. (From the authors' introduction) 39 #6547

Torretto, Roseanna F.

(with Fuchs, J. Allen) Generalized binomial coefficients. *Fibonacci Quart.* 2 (1964), 296-302. (D. H. Lehmer) 30 #3865

Torrey, M. D.

(with Richards, P. I.; Lanning, W. D.) Numerical integration of large, highly-damped, nonlinear systems. *SIAM Rev.* 7 (1965), 376-380. (W. S. Loud) 31 #5340

Torricelli, Evangelista

(See Sorokina, L. A., 43 #4610)

Torsan, Ilie

On theorems of A. Hirsch, A. B. Farnell, and N. A. Khan. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 9 (1964), *no.* 2, 17-22. (G. E. Wall) 31 #194

Bounds on the modulus of the roots of an algebraic equation. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 2, 25-29. (Author's summary) 32 #7714

Properties of polynomials which satisfy certain recurrence relations. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 11 (1966), *no.* 2, 31-41. (E. Frank) 35 #1740

On distributions of discrete random variables. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 13 (1968), *no.* 1, 33-37. (I. Cuculescu) 37 #5912

On a generalization of the beta distribution. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 1, 59-62. (Chr. Y. Pauc) 41 #1093

On an inequality of Bernšteĭn type. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 2, 65-69. (H. J. Godwin) 41 #6271

Tortorici, Maria

Calcolo inferenziale automatico. (English summary) *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 28 (1967/68), *fasc.* 1, 449-473 (1969). *(1 foldout)* (A. Salomaa) 41 #8204

Miglioramento dell'approssimazione delle radici complesse, semplici e multiple, di equazioni algebriche a coefficienti complessi. (English summary) *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 28 (1967/68), *fasc.* 1, 475-487 (1969). *(1 foldout)* (E. Frank) 44 #4895

Tortorici, Paolo

Una dimostrazione elementare della tendenza, verso la legge normale, della legge di distribuzione degli scarti nel problema delle prove ripetute. (French, English, Spanish, and German summaries) *Giorn. Ist. Ital. Attuari* 26 (1963), 52-63. (Author's summary) 29 #686

Problemi riguardanti una successione di suddivisioni casuali. *Rend. Mat. e Appl.* (5) 23 (1964), 147-155. (O. Onicescu) 29 #6511

Tortrat, Albert

Répartition asymptotique des fonctions presque périodiques de Besicovitch $f \in B_p$. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp.* 725-741. *Publ. House Czech. Acad. Sci., Prague,* 1964. (J. E. Cigler) 30 #5125

Lois de probabilité sur un espace topologique complètement régulier et produits infinis à termes indépendants dans un groups topologique. *Ann. Inst. H. Poincaré Sect. B* 1 (1964/65), 217-237. (H. P. McKean, Jr.) 31 #2755

Mesures régulières et mesures parfaites. *C. R. Acad. Sci. Paris* 258 (1964), 1135-1136. (A. Appert) 30 #3954

* Lois tendues, convergence en probabilité et équation $P * P' = P$. *C. R. Acad. Sci. Paris* 258 (1964), 3813-3816. (C. G. Esseen) 30 #5353

* (with Hennequin, P.-L.) Théorie des probabilités et quelques applications. *Masson et C*^{ie}*, Éditeurs, Paris,* 1965. viii + 457 *pp.* (R. Theodorescu) 31 #2738

Lois tendues et convolutions dénombrables dans un groupe topologique X. *Ann. Inst. H. Poincaré Sect. B (N.S.)* 2 (1965/66), 279-298. *(errata insert)* (R. A. Gangolli) 34 #3633

Lois de probabilité dans les demi-groupes topologiques complètement simples de la forme $E \times G \times F$. *C. R. Acad. Sci. Paris* 260 (1965), 4408-4411. (J. G. Wendel) 31 #1694

Lois de probabilité dans les semi-groupes topologiques X complètement réguliers. *C. R. Acad. Sci. Paris* 261 (1965), 3941-3944. (Author's summary) 32 #6519

Lois indéfiniment divisibles ($\mu \in \mathcal{G}$) dans un groupe topologique abélien métrisable X. Cas des espaces vectoriels. *C. R. Acad. Sci. Paris* 261 (1965), 4973-4975. (H. Heyer (Zbl 133, 400)) 35 #7362

Lois tendues μ sur un demi-groupe topologique complètement simple *X*. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 145-160. (M. Rosenblatt) 35 #1063

Structure des lois indéfiniment divisibles ($\mu \in \mathcal{G} = \mathcal{G}(X)$) dans un espace vectoriel topologique (séparé) X. *Symposium on Probability Methods in Analysis (Loutraki, 1966), pp.* 299-328. *Springer, Berlin,* 1967. (K. R. Parthasarathy) 37 #2279

(with Blanc-Lapierre, André) Sur un problème de compensation de corrélations dans le cas de fonctions aléatoires ou de suites de variables aléatoires de second ordre. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1063-A1065. (D. R. Brillinger) 37 #6988

(with Blanc-Lapierre, André) Sur la loi forte des grands nombres pour les fonctions aléatoires stationnaires du second ordre. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A740-A743. (F. Eicker) 39 #4924

Sur les mesures aléatoires dans les groupes non abéliens. (Compacité, mesure de Palm associée et représentation de Poisson). (English summary) *Ann. Inst. H. Poincaré Sect. B (N.S.)* 5 (1969), 31-47. (P. M. Lee) 41 #7732

(with Blanc-Lapierre, André) Compensation de corrélations dans le cas de fonctions aléatoires ou de suites de variables aléatoires de second ordre. (English summary) *Ann. Inst. H. Poincaré Sect. B (N.S.)* 5 (1969), 101-112. (E. Lukacs) 42 #6928

Sur les mélanges de lois indéfiniment divisibles. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A784-A786. (C. G. Esseen) 41 #1094

Sur un théorème de Lewis et la décomposition en facteurs premiers de la loi rectangulaire. *J. Appl. Probability* 6 (1969), 177-185. (P. M. Lee) 39 #3554

Sur la structure des lois indéfiniment divisibles (classe $\mathcal{G}(X)$) dans les espaces vectoriels *X* (sur le corps réel). (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 311-326. (P. M. Lee) 39 #7647

(with Blanc-Lapierre, André) Loi forte des grands nombres pour les fonctions aléatoires stationnaires d'ordre deux et changement aléatoire d'horloge. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1186-A1189. (O. P. Stackelberg) 41 #6294

(with Blanc-Lapierre, André) Sur un problème d'indépendance. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A328-A329. (Authors' summary) 42 #8529

Sur la continuité de l'opération convolution dans un demi-groupe topologique *X*. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A588-A591. (J. W. Baker) 43 #3389

Toruńczyk, H.

On estimated extensions of homeomorphisms in metric spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 13-16. (J. E. West) 43 #6955

Skeletonized sets in complete metric spaces and homeomorphisms of the Hilbert cube. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 119-126. (R. B. Fraser, Jr.) 41 #9194

Remarks on Anderson's paper: "On topological infinite defiency". *Fund. Math.* 66 (1969/70), 393-401. *(errata insert)* (Ky Fan) 41 #6149

Toscano, Letterio

Su gli operatori permutabili di secondo ordine. *Giorn. Mat. Battaglini* (5) 10(90) (1962), 55-71. (O. Wyler) 29 #3478

Su due successioni ricorrenti del secondo ordine lineari ed omogenee. *Ricerca (Napoli)* (2) 14 (1963), *maggio-agosto,* 27-41. (E. Löffler (Zbl 117, 376)) 32 #7535

Sui polinomi ultrasferici a parametri complementari rispetto all'unità. (English summary) *Riv. Mat. Univ. Parma* (2) 4 (1963), 255-269. (W. A. Al-Salam) 32 #1384

Sugli assi e sui fuochi dell'ellisse di Steiner inscritta in un triangolo. *Giorn. Mat. Battaglini* (6) 2(92) (1964), 5-36. (O. Bottema) 37 #811

Nota bibliografica sui numeri di Stirling di prima specie. *Giorn. Mat. Battaglini* (6) 2(92) (1964), 120-122. (Author's introduction) 36 #5008

Formule di derivazione su particolari funzioni ipergeometriche di Gauss e di Kummer. *Matematiche (Catania)* 20 (1965), 156-167. (F. W. Stallman) 32 #7794

Polinomi e numeri di Bernoulli e di Eulero parametrizzati. *Matematiche (Catania)* 22 (1967), 68-91. (A. E. Danese) 36 #441

Formule di derivazione per le funzioni ipergeometriche di Gauss. (English summary) *Riv. Mat. Univ. Parma* (2) 8 (1967), 163-180. (S. D. Bajpai) 39 #7163

(with Rossi, Francesco S.) Sui polinomi e sui numeri di Bernoulli e di Eulero. *Archimede* 20 (1968), 155-160. (A. E. Danese) 38 #2354

Operatori differenziali e polinomi de Laguerre. *Matematiche (Catania)* 23 (1968), 197-223. (A. E. Danese) 39 #3063

Numeri di Stirling generalizzati e operatori permutabili di secondo ordine. *Matematiche (Catania)* 24 (1969), 492-518. (A. E. Danese) 43 #751

Les distances des centres des cercles tritangents d'un triangle à la droite des points isogones. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 115-119. (A. Dinghas) 42 #963

Déterminants et polynômes de Laguerre généralisés. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 65-70. (A. Magnus) 43 #3518

Tošić, Dobrilo D.
* Zadaci iz matematike sa prijemnih ispita na tehničkim fakultetima (Serbo-Croatian) [Problems in mathematics from the entrance examinations to the faculties of technology. Matematička Biblioteka, 27. *Zavod za Izdavanje Udžbenika, Belgrade,* 1964. 95 *pp.* 30 #4644

Tošić, R.
(with Stanković, B.) L'élément maximal d'une matrice spéciale. *Publ. Inst. Math. (Beograd) (N.S.)* 7(21) (1967), 65-68. (L. Berg) 36 #191

Toskey, Burnett R.
Rings on a direct sum of cyclic groups. *Publ. Math. Debrecen* 10 (1963), 93-95. (W. Ledermann) 30 #117
A system of canonical forms for rings on a direct sum of two infinite cyclic groups. *Pacific J. Math.* 20 (1967), 179-188. (R. S. Pierce) 34 #4303

To Suan Zung
The asymptotic regularity of the complexity of automata belonging to certain classes. (Russian) *Problemy Kibernet. No.* 22 (1970), 5-43, 296. (Pavel Strnad) 44 #8077

Tost, Ronald
* Lösung der 1. Randwertaufgabe der Laplace-Gleichung im Rechteck mit intervallanalytischen Methoden. BMBW-GMD-28. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1970. iii + 58 *pp.* (D. M. Young, Jr.) 43 #4277

Totaro, Carmelo
Sul tensore energia-impulso nella magneto-fluido-dinamica relativistica. *Celebrazioni Archimedee del Sec. XX (Siracusa,* 1961*), Vol. III, p.* 77. *Edizioni "Oderisi", Gubbio,* 1962. (R. Thibault) 31 #1008

Tóth, Gábor Fejes. See Fejes Tóth, Gábor.

Tóth, I.
(with Rózsa, P.) Über die numerische Lösung partieller Differentialgleichungen mit Anwendung der Theorie der Hypermatrizen. *Z. Angew. Math. Mech.* 44 (1964), T64-T66. (R. Nicolovius) 32 #3292
(with Rózsa, P.) Über die direkte numerische Lösung von partiellen Differentialgleichungen mit Anwendung der Hypermatrizen. *Apl. Mat.* 10 (1965), 289-292. (A. R. Mitchell) 31 #5352
(with Rózsa, P.) Eine direkte Methode zur numerischen Lösung der Poissonschen Differentialgleichung mit Hilfe des 9-Punkte-Verfahrens. (English and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 713-720. (J. R. Kuttler) 42 #7090

Tóth, Imre
From the pre-history of non-euclidean geometry. (Hungarian. English summary) *Mat. Lapok* 16 (1965), 300-315. (J. Cofman) 35 #7
Traces of a contra-Euclidean system of the Saccheri type in the works of Aristotle. The historical antecedents of the Euclidean postulate of parallel lines. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 1-50. (J. Cofman) 38 #10

Tóth, K.
(with Szegö, K.) On the introduction of Lorentz poles into the unequal-mass scattering amplitude. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 371-400. (K. T. Mahanthappa) 41 #3020
(with Szegö, K.) SL(2,*C*) representations in explicitly "energy-dependent" basis. I, II. *J. Mathematical Phys.* 12 (1971), 846-852; *ibid.* 12 (1971), 853-860. (N. Mukunda) 44 #1335

Tóth, László Fejes. See Fejes Tóth, László.

Toth, Paolo
(with Belardinelli, E.) Un metodo per l'analisi della stabilità di sistemi lineari a coefficienti periodici, nello spazio di parametri. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (12) 6 (1968/69), *fasc.* 1-2, 87-105. (J. J. Schäffer) 44 #551
(with Boari, Maurelio) Numerical determination of the transition matrix. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 177-186. (F. J. Murray) 41 #6401

Tóth, Sándor
The arithmetic of István Géresi. I, II. (Hungarian. Romanian, Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 7 (1962), *no.* 2, 45-61. *(18 plates); ibid.* 8 (1963), *no.* 2, 41-79. (Á. Szabó) 31 #2115

Toti Rigatelli, Laura
Sullo spazio dei modelli di un calcolo generale. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 55-65. (I. Sussman) 39 #5451
Connessioni di Galois topologiche. *Boll. Un. Mat. Ital.* (4) 1 (1968), 700-707. (I. Sussman) 39 #1386
(with Franci, Raffaella) Sulla varietà dei reticoli distributivi. (English summary) *Ann. Univ. Ferrara Sez. VII (N.S* 14 (1969), 23-27. (J. Diestel) 42 #1741

Totoki, Haruo
The mixing property of Gaussian flows. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 136-139. (D. L. Hanson) 30 #4301
Time changes of flows. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 20 (1966), 27-55. (F. Hahn) 34 #1488
* Ergodic theory. Lecture Notes Series, No. 14. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. i + 97 *pp. (loose errata)* (M. A. Akcoglu) 40 #7425
On a class of special flows. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 157-167. (J. B. Robertson) 43 #500

Totov, Georgi
A hypergeometric function of *n* variables. (Bulgarian. Russian summary) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964 *kn.* 2, 37-77 (1965). (B. S. Popov) 36 #1709
An inequality and some of its consequences. (Bulgarian. Russian and English summaries) *Godisnik Visš. Tehn. Učebn. Zaved. Mat.* 1 (1964), *kn.* 3, 59-65 (1965). (L. Mirsky) 36 #2762
The roots of the equation $\sum_k^n = 0 \binom{n}{k}^2 k!x(x-1)\cdots(x-n+k+1,$ 0, and certain consequences. (Bulgarian. Russian summary) *Godišn* *Inž.-Stroitel. Inst.* 17 (1965), *kn.* 2, 99-102. (Author's summary 41 #7046
Some nonlinear integral equations. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 2 (196 *kn.* 1, 79-95 (1966). (O. E. Stanaitis) 36 #1942

Tou, Julius T.
(with Yeh, H.-H.) Optimum control of a class of distributed-parameter systems. *IEEE Trans. Automatic Control* AC-12 (1967), 29-37. (R. Conti) 35 #1384
(See also Applied automata theory, 39 #8018 and Advances in information systems science, 39 #2501)
Stochastic automata and discrete systems theory. *Applied Automata Theory, pp.* 55-80. *Academic Press, New York,* 1968. (A. Paz) 40 #1213
(with Yeh, Hsi-han) On the general theory of optimal processes. *Internat. J. Control* (1) 9 (1969), 433-451. (L. D. Berkovitz) 40 #5308

Toubassi, E. H.
(with Lawver, D. A.) Tensor products and the splitting of abelian groups. *Canad. J. Math.* 23 (1971), 764-770. (K. Honda) 44 #4091

Touchard, Jacques
(See Riordan, John, 40 #11)

Tougeron, Jean-Claude
Faisceaux différentiables quasi-flasques. *C. R. Acad. Sci. Paris* 260 (1965), 2971-2973. (J. W. Gray) 30 #5310
Équivalence des idéaux de fonctions différentiables. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A563-A565. (L. Bungart) 37 #3601
Une généralisation du théorème des fonctions implicites. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A487-A489. (G. Glaeser (Zbl 136, 39)) 36 #2170
Un contre-exemple sur les idéaux de fonctions différentiables. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1168-A1169. (P. C. Deliyannis) 35 #4738
Idéaux de fonctions différentiables. I. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 1, 177-240. (E. Brieskorn) 39 #2171

Toulotte, Jean-Marc
(with Deberghes, Hélène; Laurent, François; Deberghes, Daniel; Vidal, Pierre) Sur la stabilité asymptotique des systèmes échantillonnés non linéaires soumis à une entrée aléatoire. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A745-A746. (Authors' summary) 39 #3874

Toumire, E.
(with Gueguen, C. J.) Comments on "Irreducible Jordan form realization of a rational matrix". (With authors' reply) *IEEE Trans. Automatic Control* AC-14 (1969), 783-784. (Editors) 43 #1669

Toupin, Richard A.
Theories of elasticity with couple-stress. *Arch. Rational Mech. Anal.* 17 (1964), 85-112. (P. P. Teodorescu) 29 #6674
Saint-Venant's principle. *Arch. Rational Mech. Anal.* 18 (1965), 83-96. (P. P. Teodorescu) 30 #2725
(with Truesdell, C.) Correction to: "Static grounds for inequalities in finite strain of elastic materials". *Arch. Rational Mech. Anal.* 19 (1965), 407. (L. E. Payne) 31 #5383
(with Gurtin, M. E.) A uniqueness theorem for the displacement boundary-value problem of linear elastodynamics. *Quart. Appl. Math.* 23 (1965), 79-81. (L. E. Payne) 31 #1820

Touré, Saliou
Sur la résolution de l'équation intégrale d'Ambarzumian. *C. R. Acad. Sci. Paris* 260 (1965), 6529-6531. (F. Nahon) 31 #4592

} Une condition nécessaire pour qu'une fonction soit caractéristique. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1319-A1320. (F. L. Spitzer) 33 #8014

Généralisation de l'équation intégrale d'Ambarzumian. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 7 (1967), 249-255. (From the author's introduction) 36 #2381

ouretsky, A. H. See Tureckiĭ, A. H.

ouretzky, A. H. See Tureckiĭ, A. H.

ournarie, Max

Résolution optimale d'un système statistique d'equations non linéaires surabondantes. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A1006-A1008. (Author's summary) 39 #2460

e Tourneau, J. J. See Le Tourneau, J. J.

our Yung. See T'ao Yün.

ousnakhoff, Paul

Sur une notion de fermeture intégrale dans le cas non commutatif. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A15-A16. (C. F. Moppert) 40 #7304

Modules injectifs indécomposables sur les anneaux de Dedekind. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1144-A1147. (A. Zaks) 42 #7658

oussaint, Philippe

(with Ceschino, Francis) Détermination des paramètres d'un filtre numérique. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1201-A1203. (H. H. Goldstine) 38 #1811

outenburg, Helge

Vorhersage im allgemeinen linearen Regressionsmodell mit Zusatzinformation über die Koeffizienten. *Operationsforschung und Mathematische Statistik, I, pp.* 107-120. *Akademie-Verlag, Berlin,* 1968. (P. S. Dwyer) 39 #6457

Über die Wahl zwischen erwartungstreuen oder nichterwartungstreuen Vorhersagen. *Operationsforschung und Mathematische Statistik, II, pp.* 107-118. *Akademie-Verlag, Berlin,* 1970. (P. S. Dwyer) 41 #9410

Vorhersagebereiche im allgemeinen linearen Regressionsmodell. (English summary) *Biometrische Z.* 12 (1970), 1-13. (A. Zaslavskiĭ (RŽMat 1970 #11 V148)) 44 #7683

Optimale Vorhersage von endogenen Variablen in einem linearen System von strukturellen Gleichungen. (English and French summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 1, 69-75. (G. Tintner) 41 #9562

Vorhersage im allgemeinen linearen Regressionsmodell mit stochastischen Regressoren. (English and French summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 2, 105-116. (V. S. Koroljuk) 43 #1340

ovissi, L.

* (with Rancu, N.) Statistica matematică cu aplicaţii în producţie. (Romanian) [Mathematical statistics with applications to production] Colectia "Teoria Probabilităţilor", V. *Editura Academiei Republici Populare Romîne, Bucharest,* 1963. 896 *pp.* (G. Tintner) 32 #1869

ovmasjan, N. E.

} The Dirichlet problem for an elliptic system of second-order differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 995-998. (P. C. Fife) 30 #4058

On a boundary problem for an elliptic system of second-order differential equations in the plane. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 40 (1965), 65-69. (R. Beals) 31 #6058

Some boundary-value problems for systems of second-order equations of elliptic type not satisfying the condition of Ja. B. Lopatinskiĭ. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1028-1031. (P. C. Fife) 30 #5052

Some boundary-value problems for systems of second-order equations of elliptic type on the plane. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 1275-1278. (G. Geymonat) 31 #3703

A general boundary value problem for elliptic systems of second order with constant coefficients. (Russian) *Differencial'nye Uravnenija* 2 (1966), 3-23. (J. Nieto) 35 #1951

A general boundary value problem for elliptic systems of second order with constant coefficients. II. (Russian) *Differencial'nye Uravnenija* 2 (1966), 163-171. (A. Haimovici) 32 #7924

The Dirichlet problem for elliptic systems of differential equations of the second order which do not satisfy the Ja. B. Lopatinskiĭ conditions. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 920-938. (J. Nieto) 33 #7700

On the theory of singular integral equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 69-80. (A. Haimovici) 35 #5876

A general boundary value problem for elliptic systems of second order differential equations. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.* 33 (1967), 93-111. (H. Triebel) 37 #4404

On the theory of general linear boundary value problems for elliptic systems. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1104-1123. (D. Pascali) 36 #6793

New formulations and investigations of the first, second and third boundary value problems for strongly connected elliptic systems of two second order differential equations with constant coefficients. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 6, 497-521. (M. A. Atahodžaev) 42 #2170

Effective methods of solution of the Dirichlet problem for elliptic systems of second order differential equations with constant coefficients in regions bounded by an ellipse. (Russian) *Differencial'nye Uravnenija* 5 (1969), 60-71. (P. Szeptycki) 39 #5940

Tovstik, P. E.

Integrals of a linear equation of order $m + n$ with a small parameter multiplying the derivatives. (Russian) *Differencial'nye Uravnenija* 6 (1970), 989-999. (J. W. Macki) 43 #3580

Tovstik, T. M.

(with Ibragimov, I. A.) An estimate for spectral functions of a class of stationary random sequences. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 1, 42-57. (K. Balagangadharan) 29 #2865

Estimates of spectral functions of a class of stationary random processes. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 13, 47-54. (M. Iosifescu) 34 #870

The uniform convergence of the spectral density estimator of a stationary linear process. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 19, 64-68. (Harry I. Cohn) 44 #6125

Towber, Jacob

Complete reducibility in exterior algebras over free modules. *J. Algebra* 10 (1968), 299-309. (Marvin Marcus) 38 #1116

Local rings with the outer product property. *Illinois J. Math.* 14 (1970), 194-197. (L. J. Ratliff, Jr.) 41 #193

Linear relations. *J. Algebra* 19 (1971), 1-20. (R. Merris) 43 #6224

Townsend, A. A.

Remarks on the Malkus theory of turbulent flow. (French summary) *Mécanique de la Turbulence (Marseille,* 1961*), pp.* 167-180. *Éditions Centre Nat. Recherche Sci., Paris,* 1962. (J. C. J. Nihoul) 29 #6749

On the hydrodynamic equations for flow of liquid helium II with mutual friction. *J. Fluid Mech.* 15 (1963), 262-272. (H. E. Rorschach, Jr.) 31 #6614

Excitation of internal waves by a turbulent boundary layer. *J. Fluid Mech.* 22 (1965), 241-252. (P. G. Saffman) 32 #3401

Self-preserving flow inside a turbulent boundary layer. *J. Fluid Mech.* 22 (1965), 773-797. (R. G. Deissler) 32 #3402

The response of a turbulent boundary layer to abrupt changes in surface conditions. *J. Fluid Mech.* 22 (1965), 799-822. (R. G. Deissler) 32 #3391

Internal waves produced by a convective layer. *J. Fluid Mech.* 24 (1966), 307-319. (J. W. Miles) 32 #6811

Townsend, Carl G.

(with Olmsted, John M. H.) On the sum of two periodic functions. *Delta (Waukesha)* 1 (1968/70), *no.* 4, 1-10. 42 #759

(with Burton, T. A.) On the generalized Liénard equation with forcing function. *J. Differential Equations* 4 (1968), 620-633. (G. Sansone) 38 #368

Congruence-preserving mappings. *Math. Mag.* 43 (1970), 37-38. (L. M. Kelly) 41 #908

(with Burton, T. A.) Stability regions of the forced Liénard equation. *J. London Math. Soc.* (2) 3 (1971), 393-402. (W. S. Loud) 44 #2985

Townsend, Douglas W.

(with Benkart, George) A generalization of subnet with some resulting improvements in Moore-Smith convergence theory. *Pi Mu Epsilon J.* 5 (1969), 12-15. (S. P. Franklin) 41 #990

Townsend, Joan

Steady three-dimensional boundary-layer flow of a compressible fluid past a flat plate with parabolic leading edge. *Quart. J. Mech. Appl. Math.* 18 (1965), 231-241. (L. J. Crane) 32 #707

Toyoda, A.

(with Ohnuki, Yoshio) A note on the SU_6 symmetry for strong interaction. *Nuovo Cimento* (10) 36 (1965), 1405-1407. (K. Kawarabayashi) 33 #3673

Toyoda, Junichi

(with Mizumoto, Masaharu; Tanaka, Kohkichi) Some considerations on fuzzy automata. *Electron. Commun. Japan* 52 (1969), *no.* 7, 93-99. (A. Paz) 43 #3050

(with Mizumoto, Masaharu; Tanaka, Kohkichi) Some considerations on fuzzy automata. *J. Comput. System Sci.* 3 (1969), 409-422. (A. Paz) 40 #4027

(with Tanaka, Kokichi; Mizumoto, Masaharu; Tsjui, Hidekazu) Fuzzy automata theory and its application to automatic controls. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 541-550. (Editors) 42 #4341

Toyoda, Toshiyuki

A new interpretation of SU(*n*). *J. Phys. Soc. Japan* 19 (1964), 1757-1758. (J. D. Sullivan) 33 #2288

A relation between the Minkowski and isobaric spaces. *Progr. Theoret. Phys. Suppl. (Extra Number,* 1965*)*, 542-547. (Author's summary) 34 #7162

(with Dallaporta, N.) An SU_4 unified scheme for weak interactions. (Italian summary) *Nuovo Cimento* (10) 35 (1965), 586-598. (R. Gatto) 33 #1043

Tozoni, O. V.

* Математические модели для расчета электрических и магнитных полей. (Russian) [Mathematical models for the calculation of electric and magnetic fields. *Naukova Dumka, Kiev,* 1964. 304 *pp.* (R. N. Goss) 30 #4403

(with Maergoĭz, I. D.) The calculation ot static fields by the method of integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Elektromehanika* 1967, *no.* 11, 1187-1197. (J. E. Rosenthal) 44 #2417

Trabka, E. A.

(with Marchand, E. W.) Mean and variance of the number of renewals of a censored Poisson process. *Kybernetik (Berlin)* 7 (1970), *Heft* 6, 221-224. (G. Roussas) 42 #6952

(with Marchand, E. W.) The mean and variance of intervals between renewals of a type I counter with a censored Poisson input. *Kybernetik (Berlin)* 7 (1970), *Heft* 6, 224-227. (G. Roussas) 42 #6953

Trachtenbrot, B. A. See Trahtenbrot, B. A.

Trachtman, A. N. See Trahtman, A. N.

Tracy, Derrick S.

(with Dwyer, P. S.) A combinatorial method for products of two polykays with some general formulae. *Ann. Math. Statist.* 35 (1964), 1174-1185. (C. Hayashi) 29 #2912

Some rules for a combinatorial method for multiple products of generalized *k*-statistics. *Ann. Math. Statist.* 39 (1968), 983-998. (C. Hayashi) 37 #5972

(with Dwyer, Paul S.) Multivariate maxima and minima with matrix derivatives. *J. Amer. Statist. Assoc.* 64 (1969), 1576-1594. (Authors' summary) 40 #5076

Tracz, G. S.

(with Bernholtz, B.) An integral equation approach to second variation techniques for optimal control problems. (With discussion) *Optimization (Sympos., Univ. Keele, Keele,* 1968*)*, *pp.* 151-170. *Academic Press, London,* 1969. (F. M. Kirillova) 42 #7351

Traczyk, Tadeusz

A generalization of the Loomis-Sikorski theorem. *Colloq. Math.* 12 (1964), 155-161. (Ph. Dwinger) 31 #4748

Weak isomorphisms of Boolean and Post algebras. *Colloq. Math.* 13 (1964/65), 159-164. (B. A. Galler) 31 #3365

On dyadically *m*-distributive Boolean algebras. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 4 (1965), 135-141. (R. Sikorski) 33 #1261

(with Maczyński, M. J.) The *m*-amalgamation property for *m*-distributive Boolean algebras. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 57-60; *loose errata, ibid.* 16 (1968), *no.* 2. (Ph. Dwinger) 39 #110

On Post algebras with uncountable chain of constants. Algebras of homomorphisms. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 673-680. (Ph. Dwinger) 37 #3976

Prime ideals in generalized Post algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 369-373. (H. Ribeiro) 38 #4376

(with Marek, W.) Generalized Łukasiewicz algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 789-792. (M. M. Richter) 42 #1647

Trad, A. T.

(with Eckhaus, W.) Sur l'influence de l'épaisseur dans le problème de diffraction de Sommerfeld. *J. Mécanique* 5 (1966), 293-307. (P. L. E. Uslenghi) 34 #8732

Un théorème d'existence d'une solution faible pour une équation aux dérivées partielles du 3^e ordre, non linéaire. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1473-A1476. (V. Barbu) 39 #7274

Träger, Joachim

(See Beiträge zur Spannungs- und Dehnungsanalyse. II, 33 #3856)

Trahan, Donald H.

A new type of mean value theorem. *Math. Mag.* 39 (1966), 264-268. (R. S. Booth) 34 #4425

(with Tonti, Norman E.) Analytic functions whose real parts are bounded below. *Math. Z.* 115 (1970), 252-258. (W. C. Royster) 41 #7116

Trahtenbrot, B. A.

On the frequency computability of functions. (Russian) *Algebra i Logika Sem.* 2 (1963), *no.* 1, 25-32. (G. N. Raney) 2 #14

Finite automata. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 93-101. *Izdat. "Nauka", Leningrad,* 1964. (G. Grätzer) 36 #4924

* Algoritmalar ve otomatik hesap makinalari. (Turkish) [Algorithms and automatic computing machines] Translated by Talât Tuncer. Turkish Mathematical Society Publications, No. 22 *Türk Matematik Derneği, Istanbul,* 1964. viii + 136 *pp.* (Editors 37 #3924

Turing computers with logarithmic delay. (Russian) *Algebra i Logika Sem.* 3 (1964), *no.* 4, 33-48. (J. C. Shepherdson) 32 #1125

On the complexity of schemes realizing multi-parameter fami of operators. (Russian) *Problemy Kibernet. No.* 12 (1964), 99-11 (G. Asser) 31 #3290

* (with Kobrinskiĭ, N. E.) Introduction to the theory of fin automata. Translation from the Russian edited by J. C. Shepherd *North-Holland Publishing Co., Amsterdam,* 1965. x + 337 *pp.* (Editors) 32 #3914

Optimal computations and the frequency phenomenon of Jablonskiĭ. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 5, 79-93. (G. N. Raney) 33 #2493 (E)

Letter to the editor. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 5, 95. (Editors) 34 #5594

Normed signalizers for Turing computations. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 6, 61-70. (V. Moščenskiĭ (RŽMat 1967 #6 V215)) 37 #7224

* (with Kobrinskiĭ, N. E.) Einführung in die Theorie endlich Automaten. Übersetzt aus dem Russischen von Helmut Thiele und Rolf Lindner. Elektronisches Rechnen und Regeln, Sonderband 5. *Akademie-Verlag, Berlin,* 1967. xii + 335 *pp.* (Editors) 36 #623

The complexity of reduction algorithms in Novikov-Boone constructions. (Russian) *Algebra i Logika* 8 (1969), 93-128. (L. Bokut') 44 #2608

(with Barzdin', Ja. M.) Конечные автоматы: Поведение и синтез. (Russian) [Finite automata: Behavior and synthesis] *Izdat. "Nauka", Moscow,* 1970. 400 *pp.* (W. Kwasowiec) 41 #9665

Autoreducibility. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 1224-1227. (H. B. Curry) 43 #52

Trahtengerc, V. Ju.

(with Andronov, A. A.) Instability of one-dimensional packets and absorption of electromagnetic waves in a plasma. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1009-1015 *(Russian); translated as Soviet Physics JETP* 18 (1964), 698-702. (Authors' summary) 31 #1010

(with Baranskiĭ, V. A.) Half-isomorphisms of matrix bands of semigroups with cancellation law. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 3, 1-11 (1968). (B. M. Schein (Šaĭn)) 42 #1921

(with Baranskiĭ, V. A.) Lattice isomorphisms of matrix bands of nonperiodic commutative semigroups with cancellation law (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 1, 3-2 (B. M. Schein (Šaĭn)) 43 #4937

Traiger, I. L.

(with Gill, Arthur) On an asymptotic optimization problem in finite, directed, weighted graphs. *Information and Control* 13 (1968), 527-533. (D. R. Fulkerson) 39 #8016

Trainor, L. E. H.

(with Revzen, M.) Analytic properties of the time Green functions in the statistical mechanics of many-body systems. *Phys. Lett.* 2 (1962), 301-303. (K. K. Gupta) 30 #4524

Trajdos-Wróbel, Tadeusz

On a certain functional-differential equation. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 9-13. (Author's summary) 32 #6094

On the imaginary zeros of a polynomial. (Polish. Russian an English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 83 (1964), *zeszyt* 1, 107-110. (Author's summary) 32 #2410

* Matematyka dla inżynierów. (Polish) [Mathematics for engineer *Wydawnictwo Naukowo-Techniczne, Warsaw,* 1965. 732 *pp.* (E. J. Scott) 33 #903

Trakhtenbrot, B. A. See Trahtenbrot, B. A.

Trakhtengerts, V. Yu. See Trahtengerc, V. Ju.

Trammell, G. T.

Aharonov-Bohm paradox. *Phys. Rev.* (2) 134 (1964), B1183-B118 (C. A. Hurst) 29 #913

Trampus, Anthony

A canonical basis for the matrix transformation $X \to AXB$. *J. Math. Anal. Appl.* 14 (1966), 153-160. (H. Minc) 33 #4071

A canonical basis for the matrix transformation $X \to AX + XB$. *J. Math. Anal. Appl.* 14 (1966), 242-252. (M. Marcus) 32 #7571

Trandafir, Rodica

Familles de courbes mesurables du plan euclidien. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1009-1013. (G. Vranceanu) 34 #8286

Homogeneous linear chains with complete connections. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 1057-1063. (I. Cuculescu) 39 # 6411

Problems of integral geometry of lattices in an Euclidean space E_3. *Boll. Un. Mat. Ital.* (3) 22 (1967), 228-235. (G. D. Chakerian) 36 # 7099

Measurable one-, two- and three-parameter families of varieties in the Euclidian space E_3. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 619-634. (M. Stoka (Abl 152, 396)) 40 # 3485

Problems of integral geometry of nets in a Euclidean space E_3. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1105-1111. (Editors) 40 # 6477

Problems of integral geometry of lattices in a Riemannian space V_2 with constant curvature. *Boll. Un. Mat. Ital.* (4) 1 (1968), 244-248. (L. A. Santaló) 37 # 4766

Familles de courbes mesurables du plan euclidien. II. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 107-110. (G. Vranceanu) 37 # 3459

Families of measurable curves in the projective plane. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 283-311. (Author's review (Zbl 159, 501)) 43 # 1105

Problems of integral geometry of lattices in a Riemannian space V_2 with constant curvature. (Romanian) *Stud. Cerc. Mat.* 20 (1968), 599-603. (Editors) 41 # 981

Some extensions of Buffon's "needle problem". (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 799-803. (Author's summary) 42 # 5299

rân Gla-Lich

Expansions into series of Mittag-Leffler functions. (Russian) *Dokl. Akad. Nauk SSSR* 200 (1971), 49-52. (C. Tanaka) 44 # 2927

rân hữ'u Phát

Sur l'ordre de croissance des amplitudes de dispersion dans la théorie locale des champs quantifiés. *Acta Phys. Polon. B* 1 (1970), 323-329. (A. C. Manoharan) 44 #3611

Sur la valeur des théorèmes asymptotiques aux hautes énergies dans la théorie locale des champs quantifiés. *Acta Phys. Polon. B* 1 (1970), 331-337. (A. C. Manoharan) 44 #3612

rân Luu Chuong

Sur les contraintes et les déplacements d'un semi-espace non homogène. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A254-A257. 43 #7115

ranquilli, Giovanni Battista

Su un generico test caratteristico di normalità e di omoschedasticità per più variabili casuali. (French and English summaries) *Giorn. Ist. Ital. Attuari* 29 (1966), 64-96. (C. A. B. Smith) 36 #1023

Sul teorema di Basu-Darmois. (French and English summaries) *Giorn. Ist. Ital. Attuari* 29 (1966), 135-152. (Author's summary) 35 #7447

ransue, William R. R.

On the hyperspace of subcontinua of the pseudorac. *Proc. Amer. Math. Soc.* 18 (1967), 1074-1075. (L. K. Barrett) 36 #5901

(with Bennett, Ralph) On embedding cones over circularly chainable continua. *Proc. Amer. Math. Soc.* 21 (1969), 275-276. (H. W. Lambert) 38 #6547

(with Hinrichsen, J. W.; Fitzpatrick, B., Jr.) Concerning upper semicontinuous decompositions of irreducible continua. *Proc. Amer. Math. Soc.* 30 (1971), 157-163. (R. F. Dickman, Jr.) 43 #5495

Tranter, C. J.

A note on dual equations with trigonometrical kernels. *Proc. Edinburgh Math. Soc.* (2) 13 (1962/63), 267-268. (H. Widom) 29 #6271

An improved method for dual trigonometrical series. *Proc. Glasgow Math. Assoc.* 6, 136-140 (1964). (A. Erdélyi) 29 #2594

* Bessel functions with some physical applications. *Hart Publishing Co., Inc., New York*, 1964. x + 148 *pp.* (Editors) 39 #3053

Some triple trigonometrical series. *Glasgow Math. J.* 10 (1969), 121-125. (K. N. Srivastava) 40 #6212

Tran Trong Gien

Relativistic formulation of the lifetime matrix in the potential theory of collision. *J. Mathematical Phys.* 6 (1965), 671-676. (F. Calogero) 31 #4380

Tran Vinh-Hien

A central limit theorem for stationary processes arising from number-theoretic endomorphisms. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1963, *no.* 5, 28-34. (D. A. Darling) 29 #5267

Trapero, J. Bernardo Pena. See Pena Trapero, J. Bernardo.

Trapp, Heinz Wilhelm

(with Pinl, M.) Stationäre Krümmungsdichten auf Hyperflächen des euklidischen R_{n+1}. *Math. Ann.* 176 (1968), 257-272. (W. F. Pohl) 37 #835

Äquivalenzrelationen auf komplexen Räumen bezüglich komplexer Gruppoide. *Schr. Math. Inst. Univ. Münster No.* 42 (1969), vi + 69 *pp.* (W. Kaup) 40 #5898

Traub, J. F.

* Iterative methods for the solution of equations. Prentice-Hall Series in Automatic Computation. *Prentice-Hall, Inc., Englewood Cliffs, N.J.*, 1964. xviii + 310 *pp.* (W. C. Rheinboldt) 29 #6607

On Lagrange-Hermite interpolation. *J. Soc. Indust. Appl. Math.* 12 (1964), 886-891. (J. Kuntzmann) 30 #2662

Solution of linear difference and differential equations. *Bull. Amer. Math. Soc.* 71 (1965), 538-541. (T. Fort) 30 #5072

Construction of globally convergent iteration functions for the solution of polynomial equations. *Bull. Amer. Math. Soc.* 71 (1965), 894-895. (W. C. Rheinboldt) 31 #6373

The principle of differentiated quotients. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 437-439. (D. J. Evans) 32 #6643

Generalized sequences with applications to the discrete calculus. *Math. Comp.* 19 (1965), 177-200. (T. Fort) 31 #3737

A class of globally convergent iteration functions for the solution of polynomial equations. *Math. Comp.* 20 (1966), 113-138. (W. M. Kincaid) 33 #880

Associated polynomials and uniform methods for the solution of linear problems. *SIAM Rev.* 8 (1966), 277-301. (C. de Boor) 34 #7054

The calculation of zeros of polynomials and analytic functions. *Proc. Sympos. Appl. Math., Vol. XIX, pp.* 138-152. *Amer. Math. Soc., Providence, R.I.*, 1967. (E. Frank) 38 #2286

On Newton-Raphson iteration. *Amer. Math. Monthly* 74 (1967), 996-998. (W. M. Kincaid) 36 #3503

(with Jenkins, M. A.) An algorithm for an automatic general polynomial solver. *Constructive Aspects of the Fundamental Theorem of Algebra (Proc. Sympos., Zürich-Rüschlikon,* 1967*), pp.* 151-180. *Wiley-Interscience, New York*, 1969. (E. Frank) 41 #1210

(with Jenkins, M. A.) A three-stage variable-shift iteration for polynomial zeros and its relation to generalized Rayleigh iteration. *Numer. Math.* 14 (1969/70), 252-263. (I. Păvăloiu) 41 #2918

(with Jenkins, M. A.) A three-stage algorithm for real polynomials using quadratic iteration. *SIAM J. Numer. Anal.* 7 (1970), 545-566. (J. Vandergraft) 43 #5716

(with Dekker, T. J.) The shifted QR algorithm for Hermitian matrices. *Linear Algebra and Appl.* 4 (1971), 137-154. (C. A. Hall) 44 #1207

Traub, Roger D.

Poincaré's conjecture is implied by a conjecture on free groups. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 53-56. (D. R. McMillan, Jr.) 37 #4798

On the genus of 3-manifolds. *Illinois J. Math.* 13 (1969), 331-335. (G. Burde) 39 #2166

Trauboth, H. H.

Recursive formulas for the evaluation of the convolution integral. *J. Assoc. Comput. Mach.* 16 (1969), 63-72. (Author's summary) 38 #4033

Traugott, Stephen C.

A differential approximation for radiative transfer with application to normal shock structure. *Proc.* 1963 *Heat Transfer and Fluid Mech. Inst. (Calif. Inst. Tech., Pasadena, Calif.,* 1963*), pp.* 1-13. *Stanford Univ. Press, Stanford, Calif.*, 1963. (I. M. Cohen) 29 #5622

Trauth, Charles A., Jr.

Group-type automata. *J. Assoc. Comput. Mach.* 13 (1966), 170-175. (M. A. Harrison) 32 #5468

(with Harary, Frank) Connectedness of products of two directed graphs. *SIAM J. Appl. Math.* 14 (1966), 250-254. (W. T. Tutte) 36 #5027

Trautman, Andrzej

On the propagation of information by waves. *Recent developments in general relativity, pp.* 459-463. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw*, 1962. (F. A. E. Pirani) 29 #2004

Sur les lois de conservation dans les espaces de Riemann. *Les théories relativistes de la gravitation (Royaumont,* 1959*), pp.* 113-117. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1962. (F. A. E. Pirani) 29 #2034

Comparison of Newtonian and relativistic theories of space-time. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 413-425. *Indiana Univ. Press, Bloomington, Ind.*, 1966. (C. Gilbert) 34 #2320

Noether equations and conservation laws. *Comm. Math. Phys.* 6 (1967), 248-261. (J. Rosen) 36 #3530

Riemannian bundles. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 667-672. (A. Gray) 44 #7579

Fibre bundles associated with space-time. *Rep. Mathematical Phys.* 1 (1970/71), *no.* 1, 29-62. (J. Charles-Renaudie) 43 #7189

Trautmann, Günther

Ein Kontinuitätssatz für die Fortsetzung kohärenter analytischer Garben. *Arch. Math. (Basel)* 18 (1967), 188-196. (Y. T. Siu) 35 #6869

Eine Bemerkung zur Struktur der kohärenten analytischen Garben. *Arch. Math. (Basel)* 19 (1968), 300-304. (Y.-T. Siu) 37 #4288

Cohérence des faisceaux analytiques de la cohomologie locale. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A694-A695. (W. Barth) 39 #5833

Abgeschlossenheit von Corandmoduln und Fortsetzbarkeit kohärenter analytischer Garben. *Invent. Math.* 5 (1968), 216-230. (Y.-T. Siu) 37 #4289

Fortsetzung lokal-freier Garben über 1-dimensionale Singularitätenmengen. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 155-184. (H. Kerner) 39 #4442

Ein Endlichkeitssatz in der analytischen Geometrie. *Invent. Math.* 8 (1969), 143-174. (H. B. Laufer) 40 #4482

(with Siu, Yum-tong) Extension of coherent analytic subsheaves. *Math. Ann.* 188 (1970), 128-142. (W. Thimm) 43 #3498

(with Siu, Yum-tong) Closedness of coboundary modules of analytic sheaves. *Trans. Amer. Math. Soc.* 152 (1970), 649-658. (H. B. Laufer) 42 #7949

* (with Siu, Yum-tong) Gap-sheaves and extension of coherent analytic subsheaves. Lecture Notes in Mathematics, Vol. 172. *Springer-Verlag, Berlin-New York,* 1971. v + 172 *pp.* (W. Thimm) 44 #4240

A rank theorem for coherent analytic sheaves. *Trans. Amer. Math. Soc.* 157 (1971), 495-498. (W. Thimm) 43 #2245

Traverso, Carlo

Sulla classificazione dei gruppi analitici commutativi di caratteristica positiva. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 481-507. (D. B. Scott) 41 #5380

Seminormality and Picard group. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 585-595. (P. Abellanas) 43 #3275

Travis, Curtis C.

Oscillation theorems for second-order differential equations with functional arguments. *Proc. Amer. Math. Soc.* 31 (1972), 199-202. (L. Pintér) 44 #3006

Trávníček, Stanislav

A certain application of the Floquet function. (Russian. Czech and German summaries) *Sb. Prací Přírodověd. Fak. Univ. Palackého v Olomouci* 12 (1963), 69-74. (Editors) 43 #601

Factor spaces. (Czech) *Pokroky Mat. Fyz. Astronom.* 14 (1969), 254-265. (Editors) 40 #3278

Travnickaja, I. V.

(with Levitin, R. S.) The uniqueness of *O*-curves in N_2. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 101-104. (J. K. Hale) 43 #611

Travnikova, N. A.

(with Popov, V. N.; Stepanov, V. A.; Stiševa, A. G.) A programming program. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 78-95. (P. Constantinescu) 29 #3015

Trawinski, B. J.

General form of the probability function associated with paired-comparison experiments. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que., 1963), pp.* 459-464. *Statistical Publishing Society, Calcutta,* 1965. (S. Addelman) 35 #3826

An exact probability distribution over sample spaces of paired comparisons. *Biometrics* 21 (1965), 986-1000. (Author's summary) 32 #8428

Trawinski, Irene Monahan

(with Bargmann, R. E.) Maximum likelihood estimation with incomplete multivariate data. *Ann. Math. Statist.* 35 (1964), 647-657. (C. Villegas) 31 #6320

An algorithm for obtaining the zero of a function of the dispersion matrix in multivariate analysis. *J. Amer. Statist. Assoc.* 62 (1967), 114-123. (From the author's summary) 35 #3813

Traylor, D. Reginald

Concerning metrizability of pointwise paracompact Moore spaces. *Canad. J. Math.* 16 (1964), 407-411. (A. Lelek) 29 #1622

Metrizability and completeness in normal Moore spaces. *Pacific J. Math.* 17 (1966), 381-390. (F. Burton Jones) 33 #6586

Metrizability in normal Moore spaces. *Pacific J. Math.* 19 (1966), 175-181. (F. Burton Jones) 33 #7981

(with Fitzpatrick, Ben, Jr.) Two theorems on metrizability of Moore spaces. *Pacific J. Math.* 19 (1966), 259-264. (F. Burton Jones) 34 #3535

(with Younglove, J. N.) On normality and pointwise paracompactness. *Pacific J. Math.* 25 (1968), 193-196. (J. W. Rogers, Jr.) 37 #6909

Weak peripheral covering properties imply covering properties. *J. London Math. Soc.* 44 (1969), 509-514. (C. E. Aull) 41 #6164

Traynard, C.-E.

Sur les distributions de fréquences. *J. Math. Pures Appl.* (9) 44 (1965), 1-4. (H. C. Howard) 31 #2783

Treanor, Charles E.

A method for the numerical integration of coupled first-order differential equations with greatly different time constants. *Math. Comp.* 20 (1966), 39-45. (D. Elliott) 33 #889

Treash, Christine

A method of obtaining Steiner triple systems. Internationa Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 383-384. (R. G. Stanton) 42 #97

The completion of finite incomplete Steiner triple systems with applications to loop theory. *J. Combinatorial Theory Ser.* 10 (1971), 259-265. (R. Artzy) 43 #397

Treat, Richard P.

Possible link between isospace and the geometry of space-ti *Phys. Rev. Lett.* 12 (1964), 407-408. (G. R. Allcock) 29 #988

Local gauge fields in general relativity. *J. Mathematical Phys.* 11 (1970), 2176-2186. (A. H. Klotz) 42 #5579

Anholonomic bases in the study of the spin connection and gauge potentials in a Riemann space. *J. Mathematical Phys.* 11 (1970), 2187-2193. (P. C. Vaidya) 42 #2778

Trebels, Walter

* (with Butzer, Paul L.) Hilberttransformation, gebrochene Integration und Differentiation. Forschungsberichte des Landes Nordrhein-Westfalen, No. 1889. *Westdeutscher Verlag, Colongne,* 1968. 81 *pp.* (H. Kober) 38 #4926

(with Butzer, P. L.) Hilbert transforms, fractional integra tion and differentiation. *Bull. Amer. Math. Soc.* 74 (1968), 106-110. (W. A. Al-Salam) 36 #3081

* Charakterisierungen von Saturationsklassen in $L^1(E_n)$. Von d Mathematisch-Naturwissenschaftlichen Fakultät der Rheinisch-Westfälischen Technischen Hochschule Aachen zur Erlangung des Naturwissenschaften genehmigte Dissertation. *Rheinisch-Westfalis Technische Hochscule, Aachen,* 1969. iii + 93 *pp.* (G. Sunouchi) 41 #697

(with Butzer, Paul Leo) Opérateurs de Gauss-Weierstrass et de Cauchy-Poisson et conditions lipschitziennes dans $L^1(E_n)$. *C. Acad. Sci. Paris Sér. A - B* 268 (1969), A700-A703. (G. G. Lorent 39 #3206

Über absolute Summierbarkeit von *n*-dimensionalen Fourierreih und Fourierintegralen. *J. Approximation Theory* 2 (1969), 394-399 (S. Izumi) 40 #4683

Einige *n*-parametrige Approximationsverfahren und Charakterisierungen ihrer Favardklassen. *Forschungsberichte des Landes Nordrhein-Westfalen, No.* 2078, *pp.* 27-60. *Westdeutscher Verlag, Colongne,* 1970. (G. Sunouchi) 42 #6488

Besselpotentiale gerader Ordnung und äquivalente Lipschitzräume. *Forschungsberichte des Landes Nordrhein-Westfalen, No.* 21 *pp.* 3-22. *Westdeutscher Verlag, Cologne,* 1970. (G. G. Lorentz) #6719

Generalized Lipschitz conditions and Riesz derivatives on th space of Bessel potentials L_α^p. I. Conditions for elements of L_α and their Riesz transforms $0 < \alpha \leq 2$. *Applicable Anal.* 1 (1971), *no.* 1, 75-99. (G. I. Gaudry) 44 #2032

Treccani, Giulio

* (with Szegö, G. P.) Semigruppi di trasformazioni multivoche. Lecture Notes in Mathematics, Vol. 101. *Springer-Verlag, Berlin-New York,* 1969. vi + 177 *pp.* (E. O. Roxin) 40 #6008

(with Szegö, Giorgio P.) Non continuous Liapunov functions. *Ann. Mat. Pura Appl.* (4) 82 (1969), 1-15. (T. Ura) 41 #2111

(with Szegö, G. P.) Flow without uniqueness near a compact strongly invariant set. *Boll. Un. Mat. Ital.* (4) 2 (1969), 113-12 (L. W. Green) 40 #3527

Stabilità asintotica dei semigruppi di trasformazioni multivoche. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 646-655. (U. D'Ambrosio) 44 #5943

Punti critici delle funzioni continuamente differenziabili in R^n. *Symposia Mathematica, Vol. VI (INDAM, Rome, 1970), pp.* 267-285. *Academic Press, London,* 1971. (C. Vinti) 43 #5542

(with Szegö, G. P.) Semigruppi di trasformazioni multivoche in I^+. *Symposia Mathematica, Vol. VI (INDAM, Rome, 1970), pp.* 287-307. *Academic Press, London,* 1971. (G. Da Prato) 44 #4570

Treciokas, R.

(with Ellis, G. F. R.) Isotropic solutions of the Einstein-Boltzmann equations. *Comm. Math. Phys.* 23 (1971), 1-22. (L. Arkeryd) 44 #7924

Treder, Hans-Jürgen

(with Papapetrou, A.) Shock waves in general relativity. *Recent developments in general relativity, pp.* 351-360. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2001

Eine Verallgemeinerung des Theorems von Einstein und Pauli. *Math. Nachr.* 26 (1963/64), 353-359. (A. H. Taub) 29 #5615

Zur Definition des Paralleltransportes in isotropen Riemannsc Räumen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 5 (1963), 414-416. (K. Yano) 31 #6191

Statische Einstein-Räume mit veränderlicher Signatur. *Monats Deutsch. Akad. Wiss. Berlin* 6 (1964), 88-91. (A. H. Taub) 29 #5208

Zur Interpretation der Gravitationstheorie von Hoyle. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 623-626. (P. G. Bergmann) 32 #9005

Materie und Raumstruktur: Zur interpretation der Einsteinschen Vakuum-Gleichungen. (English summary) *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 426-435. *Indiana Univ. Press, Bloomington, Ind.*, 1966. (A. G. Walker) 35 #5210

Autoparallele Bewegung in einem Raum mit nicht-metrischem affinem Zusammenhang. *Monatsb. Deutsch. Akad. Wiss. Berlin* 8 (1966), 641-644. (E. Kreyszig) 34 #8330

* (with Kreisel, E.; Liebscher, D.-E.) Zur Quantengeometrodynamik. Schriftenreihe der Institute für Mathematik bei der Deutschen Akademie der Wissenschaften zu Berlin. Reihe A, Reine Mathematik, Heft 3. *Akademie-Verlag, Berlin,* 1967. viii + 124 *pp.* (A. H. Taub) 37 #1148

Metrische und nichtmetrische Übertragungen. *Math. Nachr.* 33 (1967), 121-128. (Y. Mutō) 34 #8353

Zur Fernparallelisierung der Raum-Zeit durch das Gravitationsfeld. *Math. Nachr.* 42 (1969), 295-308. (H. Rund) 41 #5028

Uhrengang und Energiesatz in der Kosmologie. (English summary) *Ann. Physik* (7) 24 (1970), 155-162. (Author's summary) 41 #6547

Flächenbelegungen und Topologie in der allgemeinen Relativitätstheorie. (English summary) *Ann. Physik* (7) 24 (1970), 234-242. (R. Roşca) 42 #7231

Die Einstein-Rosen-Materie. (English summary) *Ann. Physik* (7) 25 (1970/71), 261-268. (H. Rund) 42 #5604

Schwache Erfüllung und Wichtung der Einsteinschen Gravitationsgleichungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 12 (1970), 768-775. (C. W. Kilmister) 43 #2962

van Trees, Harry L. See Van Trees, Harry L.

Treger, R.

Quasi-separable algebras. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 5 (Russian), pp.* 147-151.
} *Izdat. "Zinatne", Riga,* 1969. (W. G. Leavitt) 41 #3534

Trehan, A. M.

On the bounds of the number of common treatments between blocks of balanced incomplete block design. *J. Indian Statist. Assoc.* 1 (1963), 102-103. (E. Seiden) 29 #708

Trehan, Avtar K.

(with Rao, Thammavarapu R. N.) Single-error-correcting nonbinary arithmetic codes. *IEEE Trans. Information Theory* IT-16 (1970), 604-608. (P. N. Rathie) 43 #4549

Trehan, S. K.

(with Malik, F. B.) Effect of transport coefficients on the damping of hydromagnetic waves. *Ann. Physics* 34 (1965), 1-22. (P. H. Roberts) 34 #2254

Trehel, Michel

Incompatibilité du produit direct et du produit contracté d'ensembles ordonnés finis possédant un élément nul et un élément universel. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A760-A762. (K. A. Baker) 44 #6560

Treiman, S. B.

(with Tiktopoulos, George) Weak-coupling limit for scattering by strongly singular potentials. *Phys. Rev.* (2) 134 (1964), B844-B847. (E. Predazzi) 29 #3170

(with Tiktopoulos, George) Amplitude bounds in the ladder graph approximation. *Phys. Rev.* (2) 135 (1964), B711-B715. (Authors' summary) 30 #3708

(with Tiktopoulos, George) Amplitude bound in ladder graph models. II. *Phys. Rev.* (2) 136 (1964), B1217-B1220. (N. Nakanishi) 31 #1934

(with Tiktopoulos, George) Bounds for a class of Bethe-Salpeter amplitudes. *Phys. Rev.* (2) 137 (1965), B1597-B1602. (N. Nakanishi) 32 #3560

(with Johnson, Kenneth A.) Implications of SU(6) symmetry for total cross sections. *Phys. Rev. Lett.* 14 (1965), 189-190. (F. R. Halpern) 31 #1982

(with Blankenbecler, R.; Goldberger, M. L.; Johnson, Kenneth A.) Some tests of relativistic SU(6) schemes. *Phys. Rev. Lett.* 14 (1965), 518-520. (F. J. Dyson) 31 #1908

(with Callan, C. G.) Equal-time commutators and *K*-meson decays. *Phys. Rev. Lett.* 16 (1966), 153-157. (S. L. Adler) 32 #8806

Trench, William F.

An algorithm for the inversion of finite Toeplitz matrices. *J. Soc. Indust. Appl. Math.* 12 (1964), 515-522. (M. M. Siddiqui) 30 #3891

On the extrapolation of a special class of stationary time series. *Ann. Math. Statist.* 36 (1965), 1426-1432. (E. Parzen) 32 #3244

An algorithm for the inversion of finite Hankel matrices. *J. Soc. Indust. Appl. Math.* 13 (1965), 1102-1107. (D. J. Evans) 32 #6659

(with Scheinok, Perry A.) On the inversion of a Hilbert type matrix. *SIAM Rev.* 8 (1966), 57-61. (F. L. Bauer) 33 #8092

On the stability of midpoint smoothing with Legendre polynomials. *Proc. Amer. Math. Soc.* 18 (1967), 191-199. (W. J. Kotzé) 35 #3852

Bounds on the generating functions of certain smoothing operations. *Proc. Amer. Math. Soc.* 18 (1967), 200-206. (W. J. Kotzé) 35 #3853

Weighting coefficients for the prediction of stationary time series from the finite past. *SIAM J. Appl. Math.* 15 (1967), 1502-1510. (P. Whittle) 37 #1051

(with Norman, Edward) Stability of certain differential equations with homogeneous right hand sides. *J. Differential Equations* 5 (1969), 470-475. (H. K. Wilson) 38 #4774

Continuous smoothing with polynomial weighting. *SIAM J. Appl. Math.* 19 (1970), 382-389. (J. Capon) 42 #2854

Discrete minimum variance smoothing of a polynomial plus random noise. *J. Math. Anal. Appl.* 35 (1971), 630-645. (W. J. Kotzé) 44 #2312

Trenkler, M.

(with Barnette, D.; Jucovič, E.) Toroidal maps with prescribed types of vertices and faces. *Mathematika* 18 (1971), 82-90. (A. T. White) 44 #5246

Trenogin, V. A.

Existence and asymptotic behavior of the solution of the Cauchy problem for a first-order differential equation with small parameter in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 152 (1963), 63-66. (R. G. Bartle) 29 #1409

Existence and asymptotic behaviour of solutions of "solitary wave" type for differential equations in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1033-1036. (D. H. Hyers) 29 #6348

(with Vaĭnberg, M. M.) On the theory of systems of implicit functions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 137, 217-224 (1964). (J. W. Andrushkiw) 30 #3186

Perturbation of the eigenvalues and eigenelements of linear operators. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 519-522. (R. E. L. Turner) 33 #6415

Boundary value problems for abstract elliptic equations. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1028-1031. (J. Albrycht) 34 #6275

Branching of the solutions of nonlinear singular integral equations with Cauchy type kernel. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 204-210. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (O. E. Stanaitis) 41 #884

Linear equations in Banach spaces with a small parameter. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 211-216. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (O. E. Stanltis) 41 #885

(with Ter-Krikorov, A. M.) Solutions of long wave type for quasilinear elliptic equations in a unbounded strip. (Russian) *Differencial'nye Uravnenija* 3 (1967), 496-508. (J. C. J. Nihoul) 36 #1837

* (with Vaĭnberg, M. M.) Теория ветвления решений нелинейных уравнений. (Russian) [The theory of branching of solutions of nonlinear equations. *Izdat. "Nauka", Moscow,* 1969. 527 *pp. (errata insert)* (K. R. Schneider) 41 #6029

The development and applications of the Ljusternik-Višik asymptotic method. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 4 (154), 123-156. (V. Lakshmikantham) 43 #679

(with Loginov, B. V.) The application of continuous groups in branching theory. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 36-39. (K. R. Schneider) 44 #871

(with Loginov, B. V.) The use of group properties for the determination of multiparameter families of solutions of nonlinear equations. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 440-454. (K. R. Schneider) 44 #872

Trent, Horace M.

(with Owens, A. B.) On determining minimal singularities for the realizations of an incidence sequence. *SIAM J. Appl. Math.* 15 (1967), 406-418. (F. Harary) 35 #2795

Trentman, John

Leśniewski's ontology and some medieval logicians. *Notre Dame J. Formal Logic* 7 (1966), 361-364. 38 #2008

Trepetin, M. S.

A description of the semigroups that are relatively free in varieties of nilpotent semigroups. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 697-699. (E. Ja. Gabovič) 43 #3370

Trepte, Günter

Über einen Sonderfall des Traveling-Salesman-Problems (Rundfahrt-Problem). *Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg* 10 (1968), 62-68. (Author's summary) 38 #3030

Treskov, S. A.

(with Karev, G. P.; Fridman, G. Š.) Estimate of complexity for a function of the algebra of logic. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 745-747. (E. Mendelson) 33 #5459

Treskunov, A. L.

(with Ivanov, A. V.; Ladyženskaja, O. A.; Ural′ceva, N. N.) Certain properties of generalized solutions of parabolic equations of the second order. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 17-20. (Pawel Szeptycki) 33 #4477

(with Ivanov, A. V.; Ladyženskaja, O. A.; Ural′ceva, N. N.) Generalized solutions of parabolic equations of second order. (Russian) *Trudy Mat. Inst. Steklov.* 92 (1966), 57-92. (I. Łojczyk-Królikiewicz) 35 #577

Exact estimates in L_p for a certain class of second order degenerate equations of elliptic type. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 5 (1967), 232-249. (E. Gerlach) 37 #1757

Tretjak, V. P.

The solution of boundary value problems of the plane moment theory of elasticity for infinite multiply connected domains. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 1030-1034, 1055. (V. Komkov) 42 #5496

Tret′jakov, V. D.

The inner geometry of a complex of straight lines and its special types. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May, 1960) (Russian), pp.* 152-154. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (A. Goetz) 34 #719

A conformal interpretation of symmetric conformally-Euclidean spaces. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 140-146. (Z. Nádeník) 33 #4822

On the question of hypersurfaces of conformally-Euclidean space. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 199-216. (Z. Nádeník) 34 #712

Certain types of ruled surfaces in three-dimensional Klein spaces. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 321-331. (A. Goetz) 34 #716

On the question of harmonic normalizations of surfaces in conformally Euclidean spaces. (Russian) *Volz. Mat. Sb. Vyp.* 6 (1968), 247-253. (M. Akivis (RŽMat 1969 #3 A 529)) 43 #5433

On the question of quadrics that are determined by a triple of complexes. (Russian) *Volz. Mat. Sb. Vyp.* 7 (1969), 172-183. (M. Akivis (RŽMat 1969 #12 A717)) 44 #936

Normalization of surfaces by means of involution. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 1 (104), 83-89. (V. Oproiu) 44 #934

Tret′jakov, V. E.

(with Krasovskiĭ, N. N.) On a pursuit problem in the case of restrictions on the impulses of control forces. (Russian) *Differencial′nye Uravnenija* 2 (1966), 587-599. (L. W. Neustadt) 35 #5233

Regularization of a certain pursuit problem. (Russian) *Differencial′nye Uravnenija* 3 (1967), 2108-2121. (R. Tomović) 36 #7424

(with Krasovskiĭ, N. N.) On the problem of rendezvous. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 285-287. (Editors) 38 #5478a

(with Krasovskiĭ, N. N.) Regularizing a problem on the encounter of motions in games theory. *Prikl. Mat. Meh.* 32 (1968), 3-14 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 1-11. (J. H. Case) 38 #5479

Tret′jakov, V. P.

Multiplication of double series in the case when, for one of the series, the partial sums are unbounded. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 216-220. (J. Mařík) 33 #6197

On the theory of multiplying double series. (Russian) *Candidates' Works* (1964), *Math., Mech., Phys. (Russian), pp.* 87-93. *Izdat. Kazan. Univ., Kazan,* 1964. (I. Makarov (RŽMat 1964 12 B40)) 35 #618

Formal multiplication of double trigonometric series. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 308-311. (A. J. Lohwater) 33 #3052

Multiplication of double series by the Laurent rule. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 135-139. (J. Mařík) 33 #4520

The generalization of a theorem on the formal multiplication of double series. (Russian) *Volz. Mat. Sb. Vyp.* 5 (1966), 349-353. (G. Goes) 35 #5807

Tret′jakova, N. N.

Convergence of Fourier series in four-dimensional generalized spherical functions. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 621-625. (A. Peyerimhoff) 34 #8094

(with Rodov, A. M.) Convergence of an expansion of the field of values on the surface of a sphere. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 296-301. (Edwin Hewitt) 35 #3009

Certain properties of matrix elements of irreducible unitary representations of the group SO*(n)*. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 5, 110-112. (A. J. Coleman) 43 #3397

Tretkoff, Marvin

Algebraic extensions of the field of rational functions. *Comm. Pure Appl. Math.* 24 (1971), 491-497. (W.-D. Geyer) 43 #6187

Trèves, François

* (with Martineau, A.) Éléments de la théorie des espaces vectoriels topologiques et des distributions. Fasc. II: Théorie élémentaire des espaces vectoriels topologiques. *Centre de Documentation Universitaire et S.E.D.E.S. Réunis, Paris,* 1962. iii + 138 *pp.* (H. H. Schaefer) 31 #1555

(with Nirenberg, L.) Solvability of a first order linear partial differential equation. *Comm. Pure Appl. Math.* 16 (1963), 331-351. (K. T. Smith) 29 #348

* (with Martineau, A.) Éléments de la théorie des espaces vectoriels topologiques et des distributions. Fasc. I: Éléments de la théorie des distributions. *Centre de Documentation Universitaire et S.E.D.E.S. Réunis, Paris,* 1964. ii + 84 *pp.* (H. H. Schaefer) 31 #1554

Majorations L^2 générales pour les polynomes différentiels. *C. R. Acad. Sci. Paris* 259 (1964), 4466-4468. (L. Nachbin) 30 #1421

* Linear partial differential equations with constant coefficients: Existence, approximation and regularity of solutions. Mathematics and its Applications, Vol. 6. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. x + 534 *pp.* (N. S. Trudinger) 37 #557

Distributions with values in variable spaces. *An. Acad. Brasil. Ci.* 38 (1966), 5-9. (R. Bonic) 36 #6932

* Locally convex spaces and linear partial differential equatio Die Grundlehren der mathematischen Wissenschaften, Band 146. *Springer-Verlag New York, Inc., New York,* 1967. xii + 121 *pp.* (C. Harvey) 36 #6986

* Topological vector spaces, distributions and kernels. *Academ Press, New York-London,* 1967. xvi + 565 *pp.* (J. Horváth) 37 #726

(with Zerner, Martin) Zones d'analyticité des solutions élémentaires. *Bull. Soc. Math. France* 95 (1967), 155-191. (G. G. Barozzi) 37 #575

* (with de Figueiredo, Djairo Guedes) Espaços vetoriais topológicos e distribuições. (Portuguese) [Topological vector spaces and distributions] Notas de Matemática, No. 41. *Instituto de Matemática Pura e Aplicada, Conselho Nacional de Pesquisas, Rio de Janeiro,* 1968. iii + 301 *pp.* (J. Horváth) 43 #913

* Ovcyannikov theorem and hyperdifferential operators. Notas de Matemática, No. 46. *Instituto de Matematica Pura e Aplicada, Conselho Nacional de Pesquisas, Rio de Janeiro,* 1968. iii + 238 *pp.* (R. D. Moyer) 44 #7386

Sur le problème de Cauchy pour les équations aux dérivées partielles à coefficients analytiques. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A812-A815. (M. Zerner) 38 #408

Local Cauchy problem for linear partial differential equations with analytic coefficients. *Lectures in Modern Analysis and Applications, I, pp.* 72-100. *Springer, Berlin,* 1969. (C. Harvey) 40 #3029

Hyper-differential operators in complex space. *Bull. Soc. Math. France* 97 (1969), 193-223. (B. Hellwig) 41 #6014

(with Nirenberg, Louis) Conditions nécessaires de résolubilit locale des équations pseudo-différentielles. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A774-A777. (H. O. Cordes) 41 #9063

(with Nirenberg, Louis) Conditions suffisantes de résolubilit locale des équations aux dérivées partielles linéaires. *C. R. Acad Sci. Paris Sér. A - B* 269 (1969), A853-A856. (H. O. Cordes) 41 #7266

On the theory of linear partial differential operators with analytic coefficients. *Trans. Amer. Math. Soc.* 137 (1969), 1-20. (H. Kumano-go) 40 #536

On the local solvability of linear partial differential equations in two independent variables. *Amer. J. Math.* 92 (1970), 174-204. (Z. C. Motteler) 41 #3974

Local solvability in L^2 of first order linear PEDs. *Amer. J. Math.* 92 (1970), 369-380. (Z. C. Motteler) 41 #8805

Applications of distributions to PED theory. *Amer. Math. Monthly* 77 (1970), 241-248. (Editors) 40 #6035

On local solvability of linear partial differential equations. *Bull. Amer. Math. Soc.* 76 (1970), 552-571. (A. Elcrat) 41 #2200

(with Nirenberg, Louis) On local solvability of linear partial differential equations. I. Necessary conditions. *Comm. Pure Appl. Math.* 23 (1970), 1-38. (R. D. Moyer) 41 #9064a

(with Nirenberg, Louis) On local solvability of linear partial differential equations. II. Sufficient conditions. *Comm. Pure Appl. Math.* 23 (1970), 459-509. (R. D. Moyer) 41 #9064b

Hypoelliptic partial differential equations of principal type with analytic coefficients. *Comm. Pure Appl. Math.* 23 (1970), 637-651. (H. Kumano-go) 42 #6420

Opérateurs différentiels hypoelliptiques de type principal. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1243-A1246. (R. D. Moyer) 44 #1932

An abstract nonlinear Cauchy-Kovalevska theorem. *Trans. Amer. Math. Soc.* 150 (1970), 77-92. (H. Goldschmidt) 43 #669

A new method of proof of the subelliptic estimates. *Comm. Pure Appl. Math.* 24 (1971), 71-115. (R. S. Freeman) 44 #7385

Trevisan, Giorgio

Una soluzione di un problema di Suslin. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 246-248. (P. A. Fillmore) 35 #92

Una valutazione sui quasi-gruppi finiti. *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 25 (1964/65), 93-97 (1966). (F. M. Sioson) 33 #7451

Teoremi di stabilità relativi a certe equazioni funzionali. *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 25 (1964/65), 99-106 (1966). (I. Fenyő) 33 #7642

Trew, A.

Incompleteness of a logic of Routley's. *Notre Dame J. Formal Logic* 9 (1968), 385-387. (R. Routley) 41 #8218

Treybig, L. B.

Concerning continuous images of compact ordered spaces. *Proc. Amer. Math. Soc.* 15 (1964), 866-871. (S. Mardešić) 29 #5218

Concerning continua which are continuous images of compact ordered spaces. *Duke Math. J.* 32 (1965), 417-422. (S. Mardešić) 32 #4673

Concerning upper semi-continuous decompositions of E^n whose non-degenerate elements are polyhedral arcs or star-like continua. *Canad. J. Math.* 20 (1968), 1308-1314. (R. B. Sher) 38 #5195

A characterization of the double point structure of the projection of a polygonal knot in regular position. *Trans. Amer. Math. Soc.* 130 (1968), 223-247. (S. Kinoshita) 36 #878

Prime mappings. *Trans. Amer. Math. Soc.* 130 (1968), 248-253. (S. Kinoshita) 36 #879

An approach to the polygonal knot problem using projections and isotopies. *Trans. Amer. Math. Soc.* 158 (1971), 409-421. (L. Neuwirth) 43 #5521

Concerning a bound problem in knot theory. *Trans. Amer. Math. Soc.* 158 (1971), 423-436. (L. Neuwirth) 43 #4019

Shelling 3-cells in compact triangulated 3-manifolds. *Proc. Amer. Math. Soc.* 33 (1972), 171-174. (R. J. Daverman) 44 #7558

Triandaf, Ana

(with Mangeron, D.; Oprea, Arsenie; Bercovici, Malca) Rappresentazione delle funzioni di Green spettanti ai domini poligonali rettilinei semplicemente connessi tramite le funzioni ellittiche e le funzioni θ. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 11(15) (1965), *fasc.* 1-2, 21-24. (A. Dou) 34 #7958

(with Ciobanu, Liviu; Poteraşu, Florin; Oprea, Arsenie; Bercovici, Malca) Nuove classi di funzioni spettanti ai sistemi funzionali alle derivate totali. I. Funzioni ipergeometriche generalizzate. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 13(17) (1967), *fasc.* 1-2, 77-79. (S. K. Chatterjea) 37 #5430

Triboi, Eugenia

On connections of complex projective space. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 15 (1966), *no.* 1, 161-168. (M. Decuyper) 36 #820

Trick, T. N.

(with Bourquin, J. J.) Stability of a class of lumped-distributed systems. *J. Franklin Inst.* 287 (1969), 363-378. (G. Doetsch) 39 #8006

(See also Proceedings Annual Allerton Conference on Circuit and System Theory, 41 #8052-8054)

Tricomi, Francesco Giacomo

Sul comportamento asintotico della funzione gamma incompleta $\Gamma(\alpha, x)$ al simultaneo divergere di α e x. *Univ. Nac. Tucumán Rev. Ser. A* 14 (1962), 333-339. (A. Erdélyi) 29 #4920

Transsonische Strömungen und Gleichungen des zweiten gemischten Typus. *Sympos. Transsonicum (IUTAM, Aachen, Sept. 1962), pp.* 18-23. *Springer-Verlag, Berlin,* 1964. (E. V. Laïtone) 34 #3868

Sugli estremi relativi di un polinomio a zeri reali fra loro equidistanti. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 177-179. (J. L. Ullman) 31 #3548

Potential theory: The sources of many-dimensional singular integral equations. *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi, 1963), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 397-402. *Izdat. "Nauka", Moscow,* 1965. (A. E. Heins) 33 #295

Problemi matematici dell'aerodinamica transonica. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 1, *Ist. Naz. Alta Mat., pp.* 57-100. *Ediz. Cremonese, Rome,* 1965. (L. M. Milne-Thomson) 33 #5213

Un algoritmo iterativo per il calcolo della funzione seno. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 39 (1965), 146-150. (D. H. Lehmer) 33 #1956

Algoritmi iterativi pel calcolo della somma di talune serie. (German summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 39 (1965), 395-399. (Author's summary) 33 #5095

Risoluzione di un problema di Goursat per un certo sistema di equazioni a derivate parziali di tipo iperbolico. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 99 (1965), 104-109. (A. Pozzi) 33 #4469

Sull'algoritmo iterativo del Borchardt e su di una sua generalizzazione. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 85-94. (W. A. Coppel) 34 #381

Bernhard Riemann e l'Italia. *Univ. e Politec. Torino Rend. Sem. Mat.* 25 (1965/66), 57-72. 34 #2422

* La mia vita di matematico attraverso la cronistoria dei miei lavori. (Bibliografia commentata 1916-1967). *CEDAM (Casa Editrice Dott. Antonio Milani), Padova,* 1967. xii + 172 *pp.* (H. C. Kennedy) 43 #20

Einige ungelöste Probleme der klassischen Analysis. *Abh. Math. Sem. Univ. Hamburg* 31 (1967), 25-32. (A. Rényi) 36 #1

Su di una classe di nuclei definiti-positivi. *Boll. Un. Mat. Ital.* (3) 22 (1967), 1-3. (J. Radlow) 35 #3399

* Repertorium der Theorie der Differentialgleichungen. *Springer-Verlag, Berlin-New York,* 1968. viii + 167 *pp.* (L. Cesari) 38 #1301

Sulla teoria dei polinomi ortogonali. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 195-199. (S. K. Chatterjea) 41 #5674

Matematici torinesi dell'ultimo secolo. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 102 (1968), 253-278. *(1 foldout)* (H. C. Kennedy) 40 #1250

(See also Schwarz, Ralph J., 37 #2401; Bradley, Lee C.; Aggarwal, H. R.; Ablow, C. M.; Wood, Van E.; Glasser, M. L., 37 #2398; and Fettis, Henry E., 39 #482)

Uno sguardo allo sviluppo della matematica in Italia nel primo secolo dello stato unitario. *Univ. e Politec. Torino Rend. Sem. Mat.* 28 (1968/69), 63-76. (H. C. Kennedy) 41 #1484

Di una singolare funzione dell'elastostatica. *Univ. e Politec. Torino Rend. Sem. Mat.* 28 (1968/69), 81-92. (S. K. Chatterjea) 41 #4872

* (with Bateman, Harry; Erdélyi, Arthur; Magnus, V.; Oberhettinger, F.) Таблицы интегральных преобразований. Том I. Преобразования Фурье, Лапласа, Меллина. (Russian) [Tables of integral transforms. Vol. 1. Fourier, Laplace, Mellin transforms] Translated from the English by N. Ja. Vilenkin. *Izdat. "Nauka", Moscow,* 1969. 343 *pp.* (Editors) 40 #650

Sulla somma delle inverse delle terze e quinte potenze dei numeri naturali. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 16-18. (E. Stipanić) 44 #2952

* Vorlesungen über Orthogonalreihen. Zweite, korrigierte Auflage. Die Grundlehren der mathematischen Wissenschaften, Band 76. *Springer-Verlag, Berlin-New York,* 1970. viii + 265 *pp.* (Preface) 41 #5866

Sulle combinazioni lineari delle tre classiche medie: Aritmetica, geometrica e armonica. (English summary) *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 104 (1970), 557-581. (A. E. Danese) 42 #6168

(See also Inawashiro, Sakari; Katsura, Shigetoshi; Bradley, Lee C., 41 #2305; Fettis, Henry E.; Sayeed-ur-Rahman, 41 #2058; and Young, A. T., 41 #2306)

Ricordo di Federigo Enriques nel centenario della nascita. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 105 (1971), 883-890. (Editors) 44 #6432c

Triebel, Hans

Über verallgemeinerte Lamésche funktionen. *Publ. Math. Debrecen* 9 (1962), 257-263. (A. Erdélyi) 31 #1408

Über die Lamésche Differentialgleichung. *Math. Nachr.* 30 (1965), 137-154. (M. J. O. Strutt) 33 #1511

Differenzierbarkeitseigenschaften Greenscher Funktionen elliptischer Differentialoperatoren. *Math. Z.* 90 (1965), 325-338. (R. C. MacCamy) 32 #2728

Einige Einbettungassätze für Räume von Distributionen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 293-299. (S. Łojasiewicz) 37 #6748

Zur Struktur elliptischer Differentialoperatoren mit konstanten Koeffizienten. *Arch. Math. (Basel)* 17 (1966), 455-458. (D. R. Smith) 34 #3076

Randwertprobleme quasilinearer elliptischer Differentialgleichungssysteme. *Math. Nachr.* 31 (1966), 347-362. (L. K. Jackson) 35 #551

Eine Bemerkung zu den Einbettungssätzen von Sobolew. *Publ. Math. Debrecen* 13 (1966), 87-88. (J. Horváth) 34 #3302

Über die Verteilung der Approximationszahlen kompakter Operatoren in Sobolev-Besov-Räumen. *Invent. Math.* 4 (1967), 275-293. (C. Clark) 36 #3122

Existenz- und Unitätssätze für quasilineare elliptische Differentialgleichungen. *Math. Ann.* 169 (1967), 294-306. (W. Littman) 36 #4141

Erzeugung nuklearer lokalkonvexer Räume durch singuläre Differentialoperatoren zweiter Ordnung. *Math. Ann.* 174 (1967), 163-176. (M. S. Ramanujan) 36 #6983

Über das Dirichletsche Problem für abzählbar unendliche quasilineare stark elliptische Differentialgleichungssysteme gerader Ordnung. *Math. Nachr.* 35 (1967), 7-17. (H. Beckert) 37 #4408

Zur Spektraltheorie hypoelliptischer Differentialoperatoren. *Publ. Math. Debrecen* 14 (1967), 125-149. (R. C. Gilbert) 37 #3198

Ein hinreichendes Kriterium für die Lösbarkeit der Dirichletschen Randwertaufgabe für quasilineare elliptische Differentialgleichungen. *Studia Math.* 29 (1967/68), 117-124. (R. Guenther) 36 #5525

Über die Approximationszahlen der Einbettungsoperatoren $J(B^{r}_{p,q}(\Omega)\to B^{r'}_{p',q'}(S))$. *Arch. Math. (Basel)* 19 (1968), 305-312. (C. Clark) 37 #4608

Eigenwertverteilungen und Greensche Funktionen entarteter elliptischer Differentialoperatoren. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 117-136. (C. Clark) 37 #625

Erzeugung des nuklearen lokalkonvexen Raumes $C^{\infty}(\bar{\Omega})$ durch einen elliptischen Differentialoperator zweiter Ordnung. *Math. Ann.* 177 (1968), 247-264. (A. McIntosh) 37 #4594

Eigenschaften Greenscher Funktionen nicht-selbstadjungierter allgemeiner elliptischer Operatoren. *Studia Math.* 30 (1968), 339-353. (R. C. MacCamy) 38 #1563

(with Pietsch, Albrecht) Interpolationstheorie für Banachideale von beschränkten linearen Operatoren. *Studia Math.* 31 (1968), 95-109. (J. Lindenstrauss) 39 #4663

Singuläre elliptische Differentialgleichungen und Interpolationssätze für Sobolev-Slobodeckij-Räume mit Gewichtsfunktionen. *Arch. Rational Mech. Anal.* 32 (1969), 113-134. (R. D. Moyer) 38 #6348

Über die Verteilung der Approximationszahlen von Integraloperatoren in Sobolev-Besov-Räumen. *J. Math. Mech.* 19 (1969/70), 783-796. (C. W. Swartz) 40 #7892

Zur Interpolation von Normidealen in Hilberträumen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 18 (1969), *Heft* 2, 263-267. (I. Kovács) 43 #7936

Allgemeine Legendresche Differentialoperatoren. II. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 1-35. (A. McIntosh) 43 #988

Allgemeine Legendresche Differentialoperatoren. I. Selbstadjungiertheit, Defektindex, Definitionsgebiete ganzer Potenzen, Erzeugung der lokalkonvexen Räume $C^{\infty}_{s,t}[a,b]$. *J. Functional Analysis* 6 (1970), 1-25. (A. McIntosh) 43 #987

(with Grünewald, Uta) Laguerresche Differentialoperatoren. *Math. Nachr.* 47 (1970), 331-343. (C. R. Putnam) 43 #7965

Interpolationseigenschaften von Entropie- une Durchmesseridealen Kompakter Operatoren. *Studia Math.* 34 (1970), 89-107. (R. G. Douglas) 41 #2451

Nukleare Funktionenräume und singuläre elliptische Differentialoperatoren. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 285-311. *(errata insert)* (M. S. Ramanujan) 43 #7917

Triffet, T.

Distribution functions for momentum transfer in an idealized plasma. *Fundamental Topics in Relativistic Fluid Mechanics and Magnetohydrodynamics (Proc. Sympos., Michigan State Univ., 1962)*, pp. 201-208. *Academic Press, New York,* 1963. (R. M. Lewis) 30 #917

(with Green, H. S.) Codiagonal perturbations. *J. Mathematical Phys.* 10 (1969), 1069-1089. (A. Dalgarno) 39 #6587

Trifonov, E. D.

* (with Petrašen′, M. I.) Applications of group theory in quantum mechanics. Translated from the Russian by S. Chomet. Edited and revised by J. L. Martin. *The M.I.T. Press, Cambridge, Mass.,* 1969. vi + 318 pp. (P. Roman) 41 #3017

* (with Petrašen′, M. I.) Applications de la théorie des groupes à la mécanique quantique. Traduit du russe par André Kalnin. *Masson et C^{ie}, Éditeurs, Paris,* 1970. iii + 251 pp. (P. W. Higgs) 41 #7950

Trifunović, Dragan

(with Stojaković, Mirko) Petrović's modification of Gräffe's method for solving algebraic equations. (Serbo-Croatian. French summary) *Mat. Vesnik* 5(20) (1968), 439-446. 39 #1111

Trifunović, Milomir

Two-fold completeness of the system of eigen and associated functions of the differential operator $L_2(\lambda)$. (Russian) *Mat. Vesnik* 7(22) (1970), 519-527. (J. Peetre) 44 #7368

Triger, S. A.

(with Ruhadze, A. A.; Savodčenko, V. S.) The method of geometric optics for differential equations of the fourth order applied to low-frequency plasma oscillations. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1965, *no.* 6, 58-64. (J. E. Rosenthal) 33 #6965

Trigos, Humberto Cárdenas. See Cárdenas, Humberto.

Trigub, R. M.

Approximation of functions with a given modulus of smoothness on the exterior of a segment and semi-axis. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian)*, pp. 47-51. *Fizmatgiz, Moscow,* 1961. (Bl. Sendov) 33 #1623

Constructive characteristics of some classes of functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 312-317. (G. Meinardus) 32 #2827

On Fourier λ-sums. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian)*, pp. 389-396. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (R. R. Goldberg) 33 #4591

The constructive characteristics of certain classes of functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 615-630. (R. R. Goldberg) 31 #3779

Linear summation methods and absolute convergence of Fourier series. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 24-49. (R. P. Boas, Jr.) 36 #6865

Several remarks on Fourier series. (Russian) *Mat. Zametki* 3 (1968), 597-603. (Yung-ming Chen) 37 #3269

A certain function space. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 6 (1968), 181-183. (F. Móricz) 41 #7364

Trikomi, F. See Tricomi, Francesco G.

Trillas Ruiz, Enrique

On Riesz semigroups with neutral element. (Spanish) *Sixth Annual Reunion of Spanish Mathematicians (Seville, 1965) (Spanish)* pp. 142-148. *Univ. Sevilla, Seville,* 1967. (M. Friedberg) 40 #1313

On statistical metrics. (Spanish) *Proc. Eighth Annual Reunion of Spanish Mathematicians (Santiago, 1967) (Spanish)* pp. 143-155. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1969. (P. Holgate) 40 #8096

Trilling, Leon

The dynamics of a thermally radiating gas in a rarefied atmosphere. *J. Mécanique* 3 (1964), 345-364. (J. F. Clarke) 30 #3664

Asymptotic solution of the Boltzmann-Krook equation for the Rayleigh shear flow problem. *Phys. Fluids* 7 (1964), 1681-1691. (C. H. Su) 29 #6890

Trimble, Selden Y.

(with Shah, S. M.) Univalent functions with univalent derivatives. *Bull. Amer. Math. Soc.* 75 (1969), 153-157. (F. R. Keogh) 39 #433 (E)

(with Shah, S. M.) Erratum to "Univalent functions with univalent derivatives". *Bull. Amer. Math. Soc.* 75 (1969), 888. (F. R. Keogh) 39 #4373

(with Shah, S. M.) Univalent functions with univalent derivatives. II. *Trans. Amer. Math. Soc.* 144 (1969), 313-320. (F. R. Keogh) 40 #2841

The convex sum of convex functions. *Math. Z.* 109 (1969), 112-114. (S. D. Bernardi) 39 #7085

(with Shah, S. M.) Univalent functions with univalent derivatives. III. *J. Math. Mech.* 19 (1969/70), 451-460. (F. R. Keogh) 40 #4438

(with Shah, S. M.) Entire functions with univalent derivatives. *J. Math. Anal. Appl.* 33 (1971), 220-229. (J. Nikolaus) 43 #6435

Trinkaus, H.-F.

(with Schmidt, J. W.) Extremwertermittlung mit Funktionswerte bei Funktionen von mehreren Veränderlichen. (English summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 224-232. (H. H. Goldstine) 35 #3864

Tripathi, C. S.

On Wimp's G-transform. *Gaṇita* 18 (1967), *no.* 1, 35-48. (V. P. Mainra) 39 #1916; erratum, 39, p. 1594

Tripathi, Lal Mani

An aspect of local property of $|N, p_n|$ summability of a factor Fourier series. *Proc. Japan Acad.* 40 (1964), 379-384. (C. V. Stanojevic) 30 #405

On the Nörlund summability of the derived Fourier series. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 548-555. (U. C. Guha) 34 #8082

On the absolute Riesz summability of the factored Fourier series. *Rend. Circ. Mat. Palermo* (2) 14 (1965), 195-201. (A. Meir) 33 #7790

Absolute Nörlund summability factors of infinite series. *Bull. Calcutta Math. Soc.* 58 (1966), 51-62. (D. C. Russell) 38 #1432

Theorems concerning the Nörlund summability of derived Fourier series. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 105-111. (Yung-ming Chen) 40 #4676

Absolute Nörlund summability factors of a Fourier series. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 978-985. (B. N. Sahney) 37 #4503

On the absolute Riesz summability of the factored power series on its circle of convergence. *Ann. Soc. Sci. Bruxelles Sér. I* 81 (1967), 97-107. (U. C. Guha) 36 #1868

On H_2 summability of Legendre series. (Turkish summary) *İstanbul Üniv. Fen Fak. Mec. Ser. A* 31 (1966), 19-27 (1969). (B. D. Malviya) 41 #2297

Absolute harmonic summability factors of a Fourier series. *Rend. Circ. Mat. Palermo* (2) 16 (1967), 213-224. (M. Jodeit, Jr.) 41 #4125

Tripathi, Shiva S.

(with Narendra, Kumpati S.) Optimization using conjugate gradient methods. *IEEE Trans. Automatic Control* AC-15 (1970), 268-270. (Authors' summary) 43 #2835

Tripathi, V. N.

(with Roy, S. R.) Petrov classification of the class-one space-time. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 1, 110-115. (J. Charles-Renaudie) 43 #5881

Tripathy, Kishor C.

Quantum theory of the generalized wave equations. I. *J. Mathematical Phys.* 11 (1970), 1901-1912. (Gerald Rosen) 41 #9513

Tripathy, N.

On the absolute Hausdorff summability of some series associated with a Fourier series and its allied series. *J. Indian Math. Soc. (N.S.)* 32 (1968), 141-154 (1969). (M. S. Ramanujan) 41 #725

On the absolute Hausdorff summability of Fourier series. *J. London Math. Soc.* 44 (1969), 15-25. (S. M. Mazhar) 38 #2523

On the absolute Hausdorff summability factors of a Fourier series. *Proc. Cambridge Philos. Soc.* 66 (1969), 355-363. (B. Kuttner (Zbl 188, 373)) 42 #8166

(with Kuttner, B.) An inclusion theorem for Hausdorff summability method associated with fractional integrals. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 299-308. (D. Leviatan) 44 #5648

Tripiciano, Giulia

(with Baiada, Emilio) Sull'invertibilità dei limiti per integrali dipendenti da più parametri. I, II. *Atti Sem. Mat. Fis. Univ. Modena* 17 (1968), *fasc.* 2, 239-246; *ibid.* 18 (1969), *fasc.* 1, 193-200. (T. H. Hildebrandt) 40 #4402

(with Baiada, Emilio) Sull'invertibilità dei limiti ripetuti di funzioni di due variabili. I. *Atti Sem. Mat. Fis. Univ. Modena* 19 (1970), *fasc.* 1, 124-140. (B. Rodriguez-Salinas) 43 #446

Tripodi, Angelo

Francesco Maurolico. *Giorn. Mat. Battaglini* (6) 2(92) (1964), 126-131. (I. N. Veselovskiĭ) 36 #6252

Triscari, Dionisio

Sulle singolarità delle frontiere orientate di misura minima. *Ann. Scuola Norm. Sup. Pisa* (3) 17 (1963), 349-371. (W. H. Fleming) 29 #6357a

Sull'esistenza di cilindri con frontiera di misura minima. *Ann. Scuola Norm. Sup. Pisa* (3) 17 (1963), 387-399. (W. H. Fleming) 29 #6357b

Sulle singolarità delle frontiere orientate di misura minima nello spazio euclideo a 4 dimensioni. *Matematiche (Catania)* 18 (1963), 139-163. (W. H. Fleming) 29 #6357c

Tristram, A. G.

Some coborjdism invariants for links. *Proc. Cambridge Philos. Soc.* 66 (1969), 251-264. (H. E. Debrunner) 40 #2104

Tritter, A. L.

A module-theoretic computation related to the Burnside problem. *Computational Problems in Abstract Algebra (Proc. Conf., Oxford, 1967), pp.* 189-198. *Pergamon, Oxford,* 1970. (R. L. Kruse) 41 #6981

Trius, E. B.

(with Vil′čik, G. G.) Solving the transport problem with nonlinear shipping costs by the method of successive reduction of untyings. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Èkonom. i Mat. Metody, Collection No. 1) (Russian), pp.* 33-38. *Izdat. "Nauka", Moscow,* 1969. (S. Zlobec) 44 #3704

Trivedi, Hari Karan Nath

(with Upadhyay, M. D.) Hypersurface of striction of curvilinear congruence in a Riemannian space. *Gaṇita* 20 (1969), *no.* 1, 55-64. (K. K. Gorowara) 42 #2385

A problem on curvilinear congruence. *Gaṇita* 20 (1969), *no.* 2, 29-34. (H. B. Griffiths) 43 #3932

On some special curves in a Riemannian space. *Tensor (N.S.)* 20 (1969), 286-288. (R. Behari) 40 #6397

(with Rastogi, S. C.) On neo-geodesics in a Riemannian space. *Acta Mexicana Ci. Tecn.* 4 (1970), 177-183. (T. K. Pan) 44 #5888

(with Rastrogi, S. C.) On a curve in subspace of Riemannian space. *C. R. Acad. Bulgare Sci.* 23 (1970), 245-248. (M. Kurita) 42 #2384

Trjitzinsky, W. J.

* Totalisation des séries dans les espaces abstraits. Mémorial des Sciences Mathématiques, Fasc. CLXI. *Gauthier-Villars, Paris,* 1965. 71 *pp.* (T. H. Hildebrandt) 34 #2826

* La régularité moyenne dans la théorie métrique. Mémor. Sci. Math., Fasc. CLVII. *Gauthier-Villars & C^{ie}, Éditeur-Imprimeur, Paris,* 1965. iv + 89 *pp.* (T. H. Hildebrandt) 31 #297

* La totale-*D* de Denjoy et la totale-*S* symétrique. Mémorial des Sciences Mathématiques, Fasc. CLXVI. *Gauthier-Villars Éditeur, Paris,* 1968. i + 105 *pp.* (A. M. Bruckner) 39 #1604

T″rkalanov, Kr.

A certain class of partially ordered semigroups with a solvable inequality problem. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 129-132. (John Ellis) 43 #130

Trnková, Věra Šedivá. See Šedivá-Trnková, Věra.

Troch, Inge

Über den Einflusß konstanter Parameter auf Übergangsvorgänge, Grenzzykel und Stabilitätsgrenzen. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 545-564. (K. Magnus) 40 #6991

Trocheris, Michel

(with Laval, G.; Pellat, R.; Cotsaftis, M.) Marginal stability condition for stationary non-dissipative motions. *Nuclear Fusion* 4 (1964), 25-29. (Authors' summary) 29 #762

A mathematical problem in the "quasi-linear" theory of plasma waves. *Proc. Sympos. Appl. Math., Vol. XVIII, pp.* 100-126. *Amer. Math. Soc., Providence, R. I.,* 1967. (H. Weitzner) 35 #6412

Trochimtchouk, U. U. See Trohimčuk, Ju. Ju.

Trocóniz, A. Fernández de. See Fernández de Trocóniz, A.

Troelstra, Anne Sjerp

On intermediate propositional logics. *Nederl. Akad. Wetensch. Proc. Ser. A* 68 = *Indag. Math.* 27 (1965), 141-152. (G. F. Rose) 30 #4674

* Intuitionistic general topology. (Dutch foreword and summary) Doctoral dissertation, University of Amsterdam. *Universiteit van Amsterdam, Amsterdam,* 1966. 113 *pp. (loose insert)* (B. van Rootselaar) 44 #2576

(with de Jongh, D. H. J.) On the connection of partially ordered sets with some pseudo-Boolean algebras. *Nederl..Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 317-329. (O. Frink) 33 #5537

Finite and infinite in intuitionistic mathematics. *Compositio Math.* 18, 94-116 (1967). (D. Nelson) 37 #2582

Intuitionistic connectedness. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 96-105. (H. Freudenthal) 35 #4868

Intuitionistic continuity. *Nieuw Arch. Wisk.* (3) 15 (1967), 2-6. (D. Nelson) 36 #3633

The use of "Brouwer's principle" in intuitionistic topology. *Contributions to Math. Logic (Colloquium, Hannover, 1966), pp.* 289-298. *North-Holland, Amsterdam,* 1968. (D. Nelson) 40 #5426

The theory of choice sequences. *Logic, Methodology and Philos. Sci. III (Proc. Third Internat. Congr., Amsterdam, 1967), pp.* 201-223. *North-Holland, Amsterdam,* 1968. (R. E. Vesley) 40 #5427; erratum, 41, p. 1965

The scientific work of A. Heyting. *Compositio Math.* 20, 3-12 (1968). 37 #26

New sets of postulates for intuitionistic topology. *Compositio Math.* 20, 211-221 (1968). (D. Nelson) 38 #4283

One-point compactifications of intuitionistic locally compact spaces. *Fund. Math.* 62 (1968), 75-93. (D. Nelson) 38 #4284

* Principles of intuitionism. Lectures presented at the Summer Conference on Intuitionism and Proof Theory (1968) at SUNY at Buffalo, N. Y. Lecture Notes in Mathematics, Vol. 95. *Springer-Verlag, Berlin-New York,* 1969. ii + 111 *pp.* (A. Heyting) 39 #5320

Notes on the intuitionistic theory of sequences. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 430-440. (D. Nelson) 41 #3243

Informal theory of choice sequences. (Polish and Russian summaries) *Studia Logica* 25 (1969), 31-54. (D. Nelson) 43 #4632

(with van Dalen, D.) Projections of lawless sequences. *Intuitionism and Proof Theory (Proc. Conf., Buffalo, N. Y., 1968), pp.* 163, 186. *North-Holland, Amsterdam,* 1970. (B. van Rootselaar) 43 #26

(with Kreisel, G.) Formal systems for some branches of intuitionistic analysis. *Ann. Math. Logic* 1 (1970), 229-387. (R. E. Vesley) 41 #8210

Notes on the intuitionistic theory of sequences. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 99-109. (D. Nelson) 42 #2929

Notes on the intuitionistic theory of sequences. III. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 245-252. (D. Nelson) 43 #4633

Troepol′skaja, O. V.

(with Kiselev, O. M.) Cavitational flow around an arc of a circle by a flow of heavy fluid. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 53-65. 44 #4976

Troesch, B. Andreas

An isoperimetric sloshing problem. *Comm. Pure Appl. Math.* 18 (1965), 319-338. (O. M. Phillips) 32 #692

Integral inequalities for two functions. *Arch. Rational Mech. Anal.* 24 (1967), 128-140. (E. F. Beckenbach) 36 #3941

(with Henrici, Peter; Wuytack, Luc) Sloshing frequencies for a half-space with circular or strip-like aperture. (German summary) *Z. Angew. Math. Phys.* 21 (1970), 285-318. (From the authors' summary) 42 #4080

An isoperimetric problem for sloshing in a shallow convex container. (German summary) *Z. Angew. Math. Phys.* 21 (1970), 501-513. (J. B. Butler, Jr.) 42 #5505

Trofimenko, V. A.

A refined theorem of Lindelöf for topological mappings of class $\tilde{B}L$. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 169 (1963), 13-17. (G. Piranian) 29 #251

Trofimov, P. I.

A remark on the tests for supersolvability and solvability of finite groups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 144-146. (C. Hering) 33 #5739

On the theory of finite factorizable groups. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 523-524. (O. H. Kegel) 33 #194

Trofimov, V. N.

Approximation by truncated arithmetic means of partial sums of Fourier series in some classes defined by a polyharmonic operator. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 251-253. *Fizmatgiz, Moscow,* 1961. (L. Berg) 32 #2828

A property of elliptic operators of second order. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 318-320. (R. K. Juberg) 32 #4379

(with Timan, A. F.) Difference inequalities for functions harmonic in a disc. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 777-780. (T. J. Reed) 35 #6850

(with Cygankov, A. S.) Exact inequalities for oscillations of harmonic and biharmonic functions in the disc. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 398-416. (R. P. Boas, Jr.) 40 #392

Trofimov, V. P.

The root subspaces of operators that depend analytically on a parameter. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 117-125. (Author's summary) 41 #9029

(with Kreĭn, S. G.) Holomorphic operator-valued functions of several complex variables. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 4, 85-86. (Editors) 41 #7466

Trohimčuk, Ju. Ju.

* Continuous mappings and conditions of monogeneity. Translated from Russian. *Israel Program for Scientific Translations, Jerusalem; Daniel Davey & Co., Inc., New York,* 1964. vi + 133 *pp.* (Editors) 33 #2801

* Непрерывные отображения и условия моногенности. (Russian) [Continuous mappings and monogenicity conditions] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1963. 212 *pp.* (B. A. Amirà) 32 #2556

On continuous mappings of plane regions. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 89-94. (S. Mardešić) 32 #5900

On directional derivatives of functions of several variables. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 6, 67-79. (H. Fast) 33 #4206

Interior and conformal mappings in space. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 281-283. *Izdat. "Nauka", Moscow,* 1966. (P. Caraman) 35 #393

Open zero-dimensional mappings of manifolds. (Russian) *Metrical Questions of the Theory of Functions and Mappings, No. 1 (Proc. Colloq. on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk, 1968) (Russian), pp.* 209-221. *Izdat. "Naukova Dumka", Kiev,* 1969. (J. R. Isbell) 43 #4002

(with Bondar', A. V.) The local degree of a zero-dimensional mapping. (Russian) *Metrical Questions of the Theory of Functions and Mappings, No. 1 (Proc. Colloq. on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk, 1968) (Russian), pp.* 221-241. *Izdat. "Naukova Dumka", Kiev,* 1969. (J. R. Isbell) 43 #4003

Trohimenko, V. S.

The projectors of algebras of multiplace functions. (Russian) *Studies in Algebra (Russian), pp.* 52-60. *Izdat. Saratov. Univ., Saratov,* 1969. (M. Novotný) 40 #5530

Ordered algebras of multiplace functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 1 (104), 90-98. (R. S. Pierce) 44 #2679

Troianiello, Giovanni M.

(with Schiaffino, Andrea) Su alcuni problemi di disequazioni variazionali per sistemi differenziali ordinari. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 76-103. (C. Corduneanu) 41 #7193

Troickaja, E. A.

The method of moments for nonlinear integral equations. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 638-649. (Tadeusz Leżański) 33 #7894

Troickaya, E. A. See Troickaja, E. A.

Troickiĭ, V. A.

Necessary conditions in variational problems of optimizing control processes. (Russian) *Leningrad. Politehn. Inst. Trudy No.* 226 (1963), 44-61. (J. P. LaSalle) 29 #6977

Allowance for weak elastic connections in calculating the vibrations of linear conservative systems. (Russian) *Leningrad. Politehn. Inst. Trudy No.* 226 (1963), 62-69. (R. M. Evan-Iwanowski) 30 #1647

On the optimization of a vibration transporter process. *Prikl. Mat. Meh.* 27 (1963), 1117-1123 *(Russian); translated as J. Appl. Math. Mech.* 27 (1964), 1715-1726. (K. Forster) 29 #1782

Synthesis of optimal systems. *Avtomat. i Telemeh.* 1968, *no.* 1, 5-11 *(Russian. English summary); translated as Automat. Remote Control* 1968, *no.* 1, 1-7. (Author's summary) 38 #4185

(with Semenov, A. S.) Problems of optimization with constraints imposed on the phase coordinates. *Prikl. Mat. Meh.* 34 (1970), 127-131 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 115-120. (S. F. Moon) 42 #2842

Troickiĭ, V. I.

(with Bahrah, L. D.; Kremeneckiĭ, S. D.) The method of successive approximations for incorrectly formulated problems in the theory of the synthesis of antenna systems. *Dokl. Akad. Nauk SSSR* 187 (1969), 1035-1038 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 808-810. 41 #4908

Troisi, Mario

Sui problemi di trasmissione per due equazioni ellittiche di ordine diverso. *Ricerche Mat.* 12 (1963), 216-247. (M. Schechter) 31 #2500

Sulla regolarizzazione delle soluzioni di taluni problemi di trasmissione. *Ricerche Mat.* 13 (1964), 281-315. (M. Coroi-Nedelc 31 #1461

Su alcuni problemi misti per un'equazione ellittica di ordine superiore in due variabili. *Ricerche Mat.* 14 (1965), 187-210. (M. Coroi-Nedelcu) 33 #7697

Un problema al contorno per una classe di equazioni differenziali lineari di tipo composito. *Ricerche Mat.* 16 (1967), 163-191. (P. Hartman) 40 #560

Un problema alcontorno per una classe di equazioni quasilineari di tipo quasi-ellittico. *Matematiche (Catania)* 23 (1968), 578-590. (J. Frehse) 40 #6064

Sulla nozione di problema aggiunto per i problemi al contorno relativi ad un'equazione ellittica in due variabili. *Ricerche Mat.* 17 (1968), 109-143. (P. Hartman) 39 #7279

Sulla nozione di problema aggiunto per i problemi al contorno relativi ad un'equazione ellittica in due variabili. II. *Ricerche Mat.* 17 (1968), 164-215. (P. Hartman) 42 #2168

Un problema al contorno per una classe di equazioni lineari quasi-ellittiche. *Ricerche Mat.* 17 (1968), 263-285. (J. H. Bramble) 42 #672

Problemi ellittici con dati singolari. *Ann. Mat. Pura Appl.* (4) 83 (1969), 363-407. (Z. C. Motteler) 41 #2211

Ulteriori contributi allo studio dei problemi ellittici con dati singolari. *Ricerche Mat.* 19 (1970), 9-25. (Z. C. Motteler) 44 #614

Troitskaya, E. A. See Troickaja, E. A.

Troitskii, V. A. See Troickiĭ, V. A.

Troitskii, V. I. See Troickiĭ, V. I.

Trojan, Allan

The integral extension of isometries of quadratic forms over local fields. *Canad. J. Math.* 18 (1966), 920-942. (R. Jacobowitz) 34 #2561

Trojanker, Ju. E.

Approximation by trigonometric polynomials of functions continuous on an interval. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 1 (56), 107-114. (Bl. Sendov) 34 #8059

The approximation of functions that are continuous on an interval by trigonometric polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 7 (98), 110-115. (V. Veselinov) 43 #7846

Trojanovskiĭ, I. E.

Stresses and deformations in a nonlinearly viscoelastic cylinder with a movable inner boundary. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 3, 56-63. (L. Devan) 42 #5502

(with Šengelaja, A. M.) On the question of solving the integral equations of heredity theory with non-difference kernels. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 61 (1971), 549-552. (A. Corduneanu) 44 #2000

Trojanovskiĭ, S. V.

On the equivalence of formulae with respect to a given function of the algebra of logic. (Russian) *Kazan. Gos. Univ. Ucen. Zap.* 124 (1964), *kn.* 2, 106-111. (H. B. Curry) 34 #2447

(with Krašeninnikov, V. R.) Random walks on a finite oriented graph. (Russian. English summary insert) *Kibernetika (Kiev)* 1970, *no.* 3, 93-96. (M. Nosal) 43 #7266

Trojanski, Stanimir

The topological equivalence of the spaces c_0( ) and l( ). (Russian. English summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 389-396. (G. Goes) 36 #5669

Conditionally converging series and certain *F*-spaces. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 5 (1967), 102-107. (O. E. Stanaitis) 37 #3245

Equivalent norms in nonseparable *B*-spaces with an unconditional basis. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 6 (1968), 59-65. (B. R. Gelbaum) 41 #7410

The connection between weak uniform convexity and reflexivity. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 8 (1969), 92-96. (A. Pietsch) 42 #2287

An example of a smooth space whose dual is not strictly normed. (Russian) *Studia Math.* 35 (1970), 305-309. (V. Pták) 42 #6589

(with Popov, V. A.) The approximation of abstract functions in the Hausdorff metric. (Russian) *Math. Balkanica* 1 (1971), 190-194. (G. Albinus) 44 #5682

Trojanskiĭ, S. See Trojanski, Stanimir.

Trokhimchuk, Yu. Yu. See Trohimčuk, Ju. Ju.

Trollope, J. R.

Generalized bases and digital sums. *Amer. Math. Monthly* 74 (1967), 690-694. (H. Gupta) 35 #2825

An explicit expression for binary digital sums. *Math. Mag.* 41 (1968), 21-25. (H. London) 38 #2084

(with Smith, B. E.) Exact solutions of Einstein's cosmological equations. (Italian and Russian summaries) *Nuovo Cimento B* (10) 59 (1969), 125-136. (R. Behari) 39 #3794

Trollope, R.

(with Wyman, M.) Null fields in Einstein-Maxwell field theory. *J. Mathematical Phys.* 6 (1965), 1995-2007. (W. Rindler) 32 #2166

Tromba, Anthony J.

(See Widom, Harold, 39 #4621)

(with Bonic, Robert; Frampton, John) Λ-manifolds. *J. Functional Analysis* 3 (1969), 310-320. (R. S. Palais) 38 #6635

(with Elworthy, K. D.) Differential structures and Fredholm maps on Banach manifolds. *Global Analysis (Proc. Sympos. Pure Math., Vol. XV, Berkeley, Calif., 1968), pp. 45-94. Amer. Math. Soc., Providence, R.I.,* 1970. (N. Moulis) 41 #9299

(with Elworthy, K. D.) Degree theory on Banach manifolds. *Nonlinear Functional Analysis (Proc. Sympos. Pure Math., Vol. XVIII, Part 1, Chicago, Ill., 1968), pp. 86-94. Amer. Math. Soc., Providence, R.I.,* 1970. (P. Ver Eecke) 43 #2746

Trombi, P. C.

(with Varadarajan, V. S.) Spherical transforms on semisimple Lie groups. *Ann. of Math.* (2) 94 (1971), 246-303. (G. A. Reid) 44 #6913

Trong Lieu, Bui. See Bùi Trọng-Liễu.

Tropper, A. Mary

(See Hoheisel, Guido, 38 #1481)

Trösch, A. See Troesch, B. Andreas.

Troščiev, V. E.

On the width of the zone of influence for the heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 1135-1138. (J. F. Heyda) 33 #1981

(with Judincev, V. F.; Fedjanin, V. I.) Acceleration of the convergence of the iterations in the solution of the kinetic equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 452-458. 39 #3729

Trošin, G. D.

Sharpening of an interpolation theorem in the class of functions analytic in a half-plane. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 151-155. (J. Korevaar) 30 #2154

Trošin, I. S.

Determination of periodic motions of a certain controlled system. (Russian. English summary) *Trudy Univ. Družby Narod.* 5 (1964), *vyp.* 2, 116-124. (H. A. Antosiewicz) 34 #6249

Troskie, C. G.

Noncentral multivariate Dirichlet distributions. *South African Statist. J.* 1 (1967), 21-32. 41 #4710

The generalised multiple correlation matrix. *South African Statist. J.* 3 (1969), 109-121. 42 #5387

Trost, Ernst

(with Jaeschke, G.) Über die Nichtprimteiler von $ab^x + c$. *Elem. Math.* 21 (1966), 30-32. (A. Schinzel) 32 #7479

* Primzahlen. Zweite, überarbeitete Auflage. Elemente der Mathematik vom höheren Standpunkt aus, Band II. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. 100 pp. (Editors) 41 #160

Eine Bemerkung zur Diophantischen Analysis. *Elem. Math.* 26 (1971), 60-61. (J. W. S. Cassels) 44 #5275

von Trotha, H.

(with Wuest, W.) Reibungslose Strömung an Flügelnasen mit Ausblasen eines anderen Gases. *J. Mécanique* 3 (1964), 323-343. (M. G. Hall) 30 #4457

Trotin, Jean-Claude

(with Sirugue, M.) Finite groups generated by symmetries. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 3 (1965), 161-174. (B. Chang) 33 #5719

(with Loupias, G.; Sirugue, Michel) On simple Lie groups of rank 3. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1303-1325. (N. Mukunda) 33 #3686

(with Kastler, D.; Sirugue, M.) Commutants of certain operator algebras on Fock space. *Ann. Inst. H. Poincare Sect. A (N.S.)* 4 (1966), 77-82. (H. Araki) 34 #5428

(with Manuceau, Jérôme) Étude des systèmes de spins. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), B360-B362. (Authors' summary) 38 #1890

(with Manuceau, J.) On lattice spin systems. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 10 (1969), 359-380. (M. E. Mayer) 40 #5201

Trott, G. W.

(with Christensen, G. S.) On the uniqueness of the Volterra series. *IEEE Trans. Automatic Control* AC-14 (1969), 759-760. (Authors' summary) 42 #8975

(with Christensen, G. S.) On the inclusion of initial conditions in Volterra series. *Internat. J. Control* (1) 12 (1970), 835-838. (Authors' summary) 42 #8977

Trott, Stanton M.

An axiomatic line geometry. *Canad. J. Math.* 20 (1968), 939-952. (L. M. Kelly) 38 #593

Trotter, Hale F.

A machine program for coset enumeration. *Canad. Math. Bull.* 7 (1964), 357-368. (D. H. Lehmer) 29 #5415

Groups in which raising to a power is an automorphism. *Canad. Math. Bull.* 8 (1965), 825-827. (H. Nagao) 33 #202

(with Goldfeld, Stephen M.; Quandt, Richard E.) Maximization by quadratic hill-climbing. *Econometrica* 34 (1966), 541-551. (J. N. Kapur) 35 #7564

On the norms of units in quadratic fields. *Proc. Amer. Math. Soc.* 22 (1969), 198-201. (W. Ljunggren) 39 #5513

Computations in knot theory. *Computational Problems in Abstract Algebra (Proc. Conf., Oxford, 1967), pp. 359-364. Pergamon, Oxford,* 1970. (H. E. Debrunner) 41 #2662

(with Coffman, E. G., Jr.; Muntz, R. R.) Waiting time distributions for processor-sharing systems. *J. Assoc. Comput. Mach.* 17 (1970), 123-130. (F. G. Foster) 44 #6073

Trotter, William T., Jr.

Characterization of the finite partition property for a collection of universal subcontinua. *Proc. Amer. Math. Soc.* 25 (1970), 760-762. (H. V. Kronk) 41 #6176

Trottier, G.

(with Lavoie, J. L.) On the sum of certain Appell series. *Gaṇita* 20 (1969), *no.* 1, 43-46. (L. Carlitz) 42 #2049

Troué, Jacques

The orders of the Postnikov invariants of the Thom spectrum *MSO*. *Illinois J. Math.* 10 (1966), 592-604. (D. Arlt) 35 #1021

Troup, G. J.

Quantum and classical coherence of stationary modes. *Nuovo Cimento* (10) 38 (1965), 1411-1414. (T. W. B. Kibble) 33 #967

Troutman, John L.

The logarithmic potential operator. *Illinois J. Math.* 11 (1967), 365-374. (R. Beals) 35 #5646

The logarithmic eigenvalues of plane sets. *Illinois J. Math.* 13 (1969), 95-107. (J. Siciak) 39 #1672

Trowbridge, E. A.

(with Chadwick, P.) Elastic wave fields generated by scalar wave functions. *Proc. Cambridge Philos. Soc.* 63 (1967), 1177-1187. (R. Shail) 36 #1136

Troy, Daniel J.

On traversing graphs. *Amer. Math. Monthly* 73 (1966), 497-499. (O. Ore) 33 #69

(with Cassens, Patrick; Regan, Francis) On Lambert series. *J. Analyse Math.* 21 (1968), 423-431. (W. Beekmann) 39 #5982

(with Carroll, F. W.) Distributions and analytic continuation. *J. Analyse Math.* 24 (1971), 87-100. (S. M. Shah) 44 #414

Troyanski, S. L. See Trojanski, Stanimir.

Trpenovski, Branko L.

Partially associative *n*-groupoids containing neutral elements. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 14 (1963), 5-16 (1964). (E. J. Tully, Jr.) 33 #2749

On *n*-groupoids containing central neutral elements. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 14 (1963), 31-39 (1964). (E. J. Tully, Jr.) 33 #2750

(with Madevski, Z.; Čupona, A.) On infinitary associative operations. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 15 (1964), 19-22 (1965). (F. Haimo) 32 #5757

n-semigroups that can be embedded in semigroups with neutral-element. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 15 (1964), 23-26 (1965). (F. Haimo) 32 #5769

On some *n*-semigroups which are unions of *n*-groups. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 16 (1966), 11-17. 33 #4168

On a certain system of operations. (Macedonian. English summary) *Bull. Soc. Math. Phys. Macédoine* 19 (1968), 17-24 (1970). (M. Slater) 43 #144

A certain system of quasigroups. (Macedonian. English summary) *Makedon. Akad. Nauk. Umet. Oddel. Prirod.-Mat. Nauk. Prilozi* 1 (1969), *no.* 2, 5-13. (V. D. Belousov) 43 #4945

Truax, Donald R.

(with Andrews, F. C.) Locally most powerful rank tests for several sample problems. (Germany summary) *Metrika* 8 (1964), 16-24. (W. Hoeffding) 32 #3218

(with Matthes, T. K.) Optimal invariant rank tests for the *k*-sample problem. *Ann. Math. Statist.* 36 (1965), 1207-1222. (H. Chernoff) 31 #2794 (with Matthes, T. K.) Tests of composite hypotheses for the multivariate exponential family. *Ann. Math. Statist.* 38 (1967), 681-697. (S. Kullback) 34 #8554 (E)

(with Matthes, T. K.) Correction to: "Tests of composite hypotheses for the multivariate exponential family". *Ann. Math. Statist.* 38 (1967), 1928. (Editors) 36 #2256

(with Efron, Bradley) Large deviations theory in exponential families. *Ann. Math. Statist.* 30 (1968), 1402-1424. (W. Hoeffding) 38 #2869

(with Deo, C. M.) A note on the weak law. *Ann. Math. Statist.* 39 (1968), 2159-2160. (R. Fischler) 38 #3904

Trubatch, J.

(with Deser, S.; Trubatch, S.) Some properties of the quantum linearized Einstein field. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 1159-1165. (L. Witten) 33 #2379

Stress-tensor commutation relations. (Italian and Russian summaries) *Nuovo Cimento A* (10) 68 (1970), 339-367. (S. Deser) 41 #7983

Trubatch, S.

(with Deser, S.; Trubatch, J.) Some properties of the quantum linearized Einstein field. (Italian summary) *Nuovo Cimento* (10) 39 (1965), 1159-1165. (L. Witten) 33 #2379

Trübenbacher, E.

Die Thermodiffusion für ein binäres Gemisch von Gasen aus rauhen Kugeln gleicher Massen und gleicher Durchmesser. *Z. Naturforsch.* 17a (1962), 539-549. (W. A. Werner) 29 #4555

Trubicyn, N. F.

A test of stability of linear systems with variable coefficients. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1994-2001. (D. Wexler) 39 #568

Trubin, V. A.

A method of solving a transportation problem. (Russian) *Algorithmization of Industrial Processes (Proc. Seminar, Kiev, 1968). No. 1 (Russian), pp.* 72-90. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 40 #1134

The solution of a problem of choice. (Russian) *Application of Mathematical Methods in Economic Research and Planning (Proc. Seminar, Kiev, 1968). No. 3 (Russian), pp.* 3-15. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. (Editors) 39 #7940

A method of solution of a special form of integer linear programming problems. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 952-954. (B. Bereanu) 41 #1375

Trubnikov, B. A.

(with Elesin, V. F.) Quantum correlation functions in a Maxwellian plasma. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1279-1290 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 866-872. (L. J. F. Broer) 32 #3750

(See also Reviews of plasma physics, 33 #2341)

Trucco, Ernesto

On the average cellular volume in synchronized cell populations. *Bull. Math. Biophys.* 32 (1970), 459-473. (R. M. Cormack) 43 #4213

(with Bell, G. I.) A note on the dispersionless growth law for single cells. *Bull. Math. Biophys.* 32 (1970), 475-483. (R. M. Cormack) 43 #4214

Truckenbrodt, Erich

* (with Schlichting, H.) Aerodynamik des Flugzeuges. Band I: Grundlagen aus der Strömungsmechanik. Aerodynamik des Tragflügels (Teil I). Zweite neubearbeitete Auflage. *Springer-Verlag, Berlin-New York,* 1967. xvi + 479 *pp.* (Editors) 40 #2269a

* (with Schlichting, H.) Aerodynamik des Flugzeuges. Band II: Aerodynamik des Tragflügels (Teil II), des Rumpfes, der Flügel-Rumpf-Anordnung und der Leitwerke. Zweite neubearbeitete Auflage. *Springer-Verlag, Berlin-New York,* 1969. xvi + 514 *pp.* (Editors) 40 #2269b

(See also Collatz, L.; Nicolovius, R.; Törnig, W., 40 #8315 and Hahn, W.; Mammitzsch, V.; Morgenstern, D.; Pöschl, K.; Zander, W., 42 #5480)

Trudinger, Neil S.

On the Dirichlet problem for quasilinear uniformly elliptic equations in n variables. *Arch. Rational Mech. Anal.* 27 (1967), 108-119. (D. R. Smith) 36 #2963

On Harnack type inequalities and their application to quasilinear elliptic equations. *Comm. Pure Appl. Math.* 20 (1967), 721-747. (A. Kufner) 37 #1788

The Dirichlet problem for nonuniformly elliptic equations. *Bull. Amer. Math. Soc.* 73 (1967), 410-413. (R. Finn) 35 #5763

On imbeddings into Orlicz spaces and some applications. *J. Math. Mech.* 17 (1967), 473-483. (J. Albrycht) 35 #7121

Remarks concerning the conformal deformation of Riemannian structures on compact manifolds. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 265-274. (A. Nijenhuis) 39 #2093

Pointwise estimates and quasilinear parabolic equations. *Comm. Pure Appl. Math.* 21 (1968), 205-226. (R. Guenther) 37 #1758

Some existence theorems for quasi-linear, non-uniformly elliptic equations in divergence form. *J. Math. Mech.* 18 (1968/69), 909-919. (H. Beckert) 39 #3154

Lipschitz continuous solutions of elliptic equations of the form $\mathscr{A}(Du)D^2u = 0$. *Math. Z.* 109 (1969), 211-216. (D. E. Edmunds 39 #7283

(with Hempel, J. A.; Morris, G. R.) On the sharpness of a limiting case of the Sobolev imbedding theorem. *Bull. Austral. Math. Soc.* 3 (1970), 369-373. (D. Pascali) 43 #6717

Generalized solutions of quasilinear, differential inequaliti I. Elliptic operators. *Bull. Amer. Math. Soc.* 77 (1971), 576-579 (J. Conlan) 43 #3620

The boundary gradient estimate for quasilinear elliptic and parabolic differential equations. *Indiana Univ. Math. J.* 21 (1971/72), 657-670. (C. B. Morrey, Jr.) 44 #7127

Truelove, Alan J.

* (with Blischke, W. R.; Mundle, P. B.; Johns, M. V., Jr.) Further results on estimation of the parameters of the Pearson typ III and Weibull distributions in the non-regular case. ARL 68-0207 *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1968. vii + 89 *pp.* (A. C. Cohen) 40 #962

Trueman, T. L.

(with Peierls, Ronald F.) Restrictions imposed by the optica theorem on exchanged quantum numbers. *Phys. Rev.* (2) 134 (1964), B1365-B1367. (V. de Alfaro) 29 #936

(with Kantor, P. B.; Kuo, T. K.; Peierls, Ronald F.) Comparison of nucleon-nucleon scattering data with the predictions of SU(12)$\mathscr{L}$. *Phys. Rev.* (2) 140 (1965), B1008-B1012. (M. J. Moravcsik) 32 #7014b

Truesdell, Clifford A. T.

Exact theory of self-expanding piston rings. *Ing.-Arch.* 30 (1961), 77-87. (E. H. Lee) 29 #3036

Reactions of the history of mechanics upon modern research. *Proc. Fourth U.S. Nat. Congr. Appl. Mech. (Univ. California, Berkeley, Calif., 1962), Vol. 1, pp.* 35-47. *Amer. Soc. Mech. Engrs. New York,* 1962. 30 #6

Una teoria meccanica della diffusione. *Celebrazioni Archimede del Sec. XX (Siracusa, 1961), Vol. III, pp.* 161-168. *Edizioni "Oderisi", Gubbio,* 1962. (H. Ziegler) 31 #973

Second-order effects in the mechanics of materials. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Interna Sympos., Haifa, 1962), pp.* 1-47. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (J. E. Adkins) 29 #1787

Second-order theory of wave propagation in isotropic elastic materials. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp.* 187-199. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (D. R. Bland) 29 #3037

The natural time of a viscoelastic fluid: Its significance and measurement. *Phys. Fluids* 7 (1964), 1134-1142. (W. Langlois) 29 #3095

A theorem on the isotropy groups of a hyperelastic material. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1081-1083. (R. A. Toupin) 32 #641

Congetture intorno ad un nuovo metodo di approssimazione asintotica. *Rend. Mat. e Appl.* (5) 23 (1964), 185-192. (S. C. van Veen) 31 #449

Die Entwicklung des Drallsatzes. *Z. Angew. Math. Mech.* 44 (1964), 149-158. (B. Hoffman (AMR 18 #42)) 33 #8128

Die rationale Mechanik der Kontinua. *Z. Angew. Math. Mech.* 44 (1964), 341-347. (Donald E. Carlson) 33 #2028

* (with Coleman, B. D.; Gurtin, M. E.; Herrera, Ismael) Wave propagation in dissipative materials. A reprint of five memoirs. *Springer-Verlag Inc., New York,* 1965. v + 132 *pp. (not consecutively paged)* (Editors) 32 #3411

(See also Continuum mechanics, 33 #1187b-d)

(with Noll, W.) The non-linear field theories of mechanics. *Handbuch der Physik, Band III/3, pp.* 1-602. *Springer-Verlag, Berlin,* 1965. (A. C. Pipkin) 33 #2030

(with Toupin, R. A.) Correction to: "Static grounds for inequalities in finite strain of elastic materials". *Arch. Rational Mech. Anal.* 19 (1965), 407. (L. E. Payne) 31 #5383

Fluids of the second grade regarded as fluids of convected elasticity. *Phys. Fluids* 8 (1965), 1936-1938. (A. C. Pipkin) 32 #3412

(with Coleman, B. D.) Homogeneous motions of incompressible materials. (German and Russian summaries) *Z. Angew. Math. Mech.* 45 (1965), 547-551. (W. P. Graebel) 33 #6896

* Continuum mechanics. I. The mechanical foundations of elasticity and fluid dynamics. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. xvi + 218 *pp.* (Editors) 33 #1187a

Thermodynamics of deformation. *Non-equilibrium Thermodynamics, Variational Techniques and Stability (Proc. Sympos. Univ. Chicago, May* 17-19, 1965*), pp.* 101-112. *Univ. Chicago Press, Chicago, Ill.,* 1966. (B. Bernstein) 35 #3956

* The elements of continuum mechanics. *Springer-Verlag New York, Inc., New York,* 1966. iv + 279 *pp.* (N. Laws) 35 #5166

* Six lectures on modern natural philosophy. *Springer-Verlag, New York,* 1966. iii + 117 *pp.* (H. Günther (Zbl 138, 206)) 36 #7364

(See also Euler, Leonard, 37 #1219)

Corrigenda and second addendum to my note on very large motions of elastic bodies. (Latin) *Arch. Rational Mech. Anal.* 28 (1967/68), 397-398. (Editors) 36 #4862

* Essays in the history of mechanics. *Springer-Verlag New York Inc., New York,* 1968. v + 384 *pp. (*1 *plate)* (I. N. Veselovskiĭ) 39 #3946

A precise upper limit for the correctness of the Navier-Stokes theory with respect to the kinetic theory. *J. Statist. Phys.* 1 (1969), 313-318. (Author's summary) 40 #3867

rufanov, S. V.

Certain distance problems on a graph. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 3, 61-66. (I. Cederbaum) 36 #2532

ruffault, Bernard

Sur le problème des mots pour les groupes de Greendlinger. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A1-A3. (R. H. Fox) 37 #6359

ruhaev, R. I.

(with Baranov, A. Ju.; Homenjuk, V. V.) On a method of immersion in variational problems. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 1, 149-152. (Z. Poracká) 35 #4784

(with Homenjuk, V. V.) Methods of investigating nonclassical variational problems. (Russian) *Theory of Optimal Solutions (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 9-24. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #6142

ruhniĭ, V. D.

Structure-information estimates of the quality of digital computers. (Russian) *Èkonom. i Mat. Metody* 5 (1969), 79-89. (T. Rus) 43 #4578

rümper, Manfred

On a special class of type I gravitational fields. *J. Mathematical Phys.* 6 (1965), 584-589. (R. H. Boyer) 30 #4554

(with Kundt, Wolfgang) Orthogonal decomposition of axi-symmetric stationary spacetimes. *Z. Physik* 192 (1966), 419-422. (A. H. Taub) 33 #5347

On the locally ellipsoidal solutions of Liouville's equation in stellar dynamics. *Astrophys. J.* 158 (1969), 915-923. (L. F. Oster) 41 #3078

rumpler, Robert J.

* (with Weaver, Harold F.) Statistical astronomy. *Dover Publications, Inc., New York,* 1962. xx + 644 *pp.* (J. M. A. Danby) 29 #5624

runk, G. V.

(with Huggins, W. H.) Orthogonal expansion of a real rational function having Hurwitz denominator. *IEEE Trans. Circuit Theory* CT-15 (1968), 144-145. (R. Nicolovius) 40 #1006

ruöl, Klaus

* Mengentheoretische Eigenschaften von Systemen unabhängiger Mengen. BMwF-GMD-24. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1969. iv + 52 *pp.* (G. Grätzer) 42 #173

ruong, Tran N.

(with Kacser, Claude; Singer, Paul) Study of K_{e4} decays. *Phys. Rev.* (2) 137 (1965), B1605-B1620. (G. Barton) 32 #3582

Sum rules and bounds for the forward Compton scattering. *Phys. Lett.* 31B (1970), 461-464. (P. Pascual) 44 #7886

rupin, Š. D. See Trupins, Š.

rupins, Š.

Coplanarity of three affinors with a system of linearly independent vectors in a linear dimension-free space. (Russian) *Proceedings of the Riga Seminar on Algebra (Russian), pp.* 282-296. *Latv. Gos. Univ., Riga,* 1969. (W. Wrona) 40 #6428

Truško, T. G.

(with Štatland, È. S.) A single-line queueing system controlled by a Markov chain and the corresponding system of inventory control. (Russian) *Theory of Optimal Solutions (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 51-58. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 39 #6421

(with Štatland, È. S.) On a control system. (Russian) *Theory of Optimal Solutions (Seminar, Kiev,* 1967*). No.* 3 *(Russian), pp.* 85-89. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. (Editors) 39 #6655

(with Štatland, È. S.) The limit behavior of a certain queueing system and the problem of controlling this system in a stationary regime. (Russian) *Theory of Optimal Solutions (Proc. Sem., Kiev,* 1968*), No.* 2 *(Russian), pp.* 84-90. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 42 #1242

Trusov, Ju. D.

Comments on certain formulae of diophantine analysis in Euler's unpublished manuscripts. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.,* 63-66. (S. H. Gould) 33 #5426

Remarks on Euler's unpublished manuscripts connected with Problem XXXII, Book V of Diophantus. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.,* 67-70. (S. H. Gould) 33 #5427

Trustrum, G. B.

Mrs Perkins's quilt. *Proc. Cambridge Philos. Soc.* 61 (1965), 7-11. (F. Supnick) 30 #1066

Trustrum, Kathleen

Rotating and stratified fluid flow. *J. Fluid Mech.* 19 (1964), 415-432. (R. R. Long) 29 #1823

Trutt, David

Extremal norm-determining measures for Hilbert spaces of entire functions. *J. Math. Anal. Appl.* 20 (1967), 74-89. (J. Rovnyak) 35 #5914

(with de Branges, Louis) Meixner and Pollaczek spaces of entire functions. *J. Math. Anal. Appl.* 22 (1968), 12-24. (R. H. Cox) 36 #6916

(with Kriete, T. L., III) The Cesàro operator in l^2 is subnormal. *Amer. J. Math.* 93 (1971), 215-225. (L. J. Wallen) 43 #6744

Truust Poulsen, Birgit. See Poulsen, Birgit Truust.

Tryambak Joshi, Padmini. See Joshi, Padmini Tryambak.

Trybuła, Stanisław

Properties of the hypergeometric distribution connected with Bayes' rule. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 753-756. (H. D. Brunk) 30 #3520

On the paradox of n random variables. (Polish and Russian summaries) *Zastos. Mat.* 8 (1965), 143-156. (E. M. Klimko) 32 #8380

Sequential estimation in processes with independent increments. *Dissertationes Math. Rozprawy Mat.* 60 (1968), 46 *pp. (errata insert)* (M. M. Siddiqui) 41 #4737

Cyclic random inequalities. *Zastos. Mat.* 10 (1969), 123-127. (S. G. Mohanty) 39 #4968

Trybulec, A.

(with Krakus, B.) A strongly convex and not contractible metric space. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 855-860. (P. Hamburg) 37 #6908

Trybusiowa, E.

(with Kopociński, B.) Breakdown time distributions of systems in series. (Polish and Russian summaries) *Zastos. Mat.* 9 (1966/67), 227-237. (E. A. Robinson) 37 #7164

(with Kopociński, B.) The distribution of the discrete tree length on a line. *Zastos. Mat.* 10 (1969), 129-133. (R. Fischler) 39 #6377

Tryjarska, Magdalena

On some Fourier problems. (Polish. Russian and English summaries) *Prace Mat.* 6 (1961), 69-84. (Author's summary) 30 #4133

A boundary problem of hydromechanics. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 83 (1964), *zeszyt* 1, 13-25. (R. M. Evan-Iwanowski) 32 #4971

A certain nonlinear boundary problem for parabolic systems of partial differential equations. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 3 (1964), 93-108. (J. Szarski) 35 #5776

Study of regular continuity of a boundary value of a derivative along a normal of a potential of double layer in the theory of heat conductivity. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 3 (1964), 275-293. (Author's summary) 32 #7778

A certain boundary problem for a parabolic equation with unbounded coefficients. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 4 (1965), 43-56. (J. Szarski) 35 #7008

Trykova, T. N.

Translation surfaces of hyperbolic space. (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 167-170. (D. B. Persic) 44 #3185

Trytten, George N.

(with Conlan, James) Pointwise bounds in the Cauchy problem for elliptic systems of partial differential equations. *Arch. Rational Mech. Anal.* 22 (1966), 143-152. (L. E. Payne) 32 #7920

(with Martin, Monroe H.) Inequalities associated with quadratic forms. (Italian summary) *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 101 (1966/67), 286-290. (H. Minc) 36 #2637

Trzeciakowski, Witold

(with Mycielski, Jerzy; Rey, Krzysztof) Partial and general optimum in planning foreign trade. (Polish. Russian and English summaries) *Przegląd Statyst.* 10 (1963), 119-137. (Authors' summary) 32 #9031

Tsch, C. Hsu Lee. See Hsu Li-hsia.

Tschakaloff, Ljubomir. See Čakalov, Ljubomir N.

Tscharnuter, Werner

Markoffsche Prozesse und Stellardynamik. I. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 177 (1969), 491-534. (E. Lyttkens) 41 #5030

Tschebotareff, G. See Čebotarev, G. A.

Tschebotareff, N. G. See Čebotarev, N. G.

Tschebotarjow, N. G. See Čebotarev, N. G.

Tschebotaröw, N. See Čebotarev, N. G.

Tschen, Y. Why. See Chen, Y. W.

Tscherkassoff, A. See Čerkasov, A. N.

Tschernikow, S. See Černikov, S. N.

von Tschirnhaus, Ehrenfried Walther

* Medicina mentis sive artis inveniendi praecepta generalia. Editio nova (Lipsiae 1695). Erstmalig vollständig ins Deutsche übersetzt und kommentiert von Johannes Haussleiter. Mit mathematikgeschichtlichen Zusätzen von Herbert Oettel und einer biographischen Einführung sowie mehreren Anhängen von Rudolph Zaunick. Acta Historica Leopoldina. Abhandlungen aus dem Archiv für Geschichte der Naturforschung und Medizin der Deutschen Akademie der Naturforscher Leopoldina. No. 1. *Johann Ambrosius Barth Verlag, Leipzig,* 1963. 409 pp. *(24 plates)* (C. J. Scriba) 33 #3867

Tschobanow, I. W. See Čobanov, Ivan.

Tschupik, Josef P.

Über lineare Bildersysteme in einem projektiven R_n. *Monatsh. Math.* 69 (1965), 339-352. (A. C. Choudhury) 32 #6297

Über Untersysteme gewisser linearer Bildersysteme in einem projektiven R_n. *Monatsh. Math.* 70 (1966), 164-177. (A. C. Choudhury) 33 #6483

Über Drehflächenumrisse in Perspektive und schiefer Axonometrie. *Elem. Math.* 23 (1968), 73-78. (H. Brauner) 38 #1586

Ein geometrisches Modell für die Theorie der Gleichungen dritter und vierter nomographischer Ordnung. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 195-207. (Author's summary) 39 #3731

Tse, Edison

(with Athans, Michael) Optimal minimal-order observer-estimators for discrete linear time-varying systems. *IEEE Trans. Automatic Control* AC-15 (1970), 416-426. (Authors' summary) 44 #5136

Tse, Kam-fook

On the sums and products of normal functions. *Comment. Math. Univ. St. Paul.* 17 (1969), 63-72. (D. A. Storvick) 42 #3283

Some results on value distribution of meromorphic functions in the unit disk. *Nagoya Math. J.* 34 (1969), 105-119. (N. Toda) 39 #2985

Some results on compact families of normal functions. *Portugal. Math.* 29 (1970), 135-140. (P. Lappan) 44 #5438

An analog of the Lusin-Privaloff radial uniqueness theorem. *Proc. Amer. Math. Soc.* 25 (1970), 310-312. (Hari Shankar) 41 #7115

On a theorem of Nagatomo. *Yokohama Math. J.* 18 (1970), 67-69. (P. Lappan) 44 #436

Nontangential interpolating sequences and interpolation by normal functions. *Proc. Amer. Math. Soc.* 29 (1971), 351-354. (J. A. Cima) 43 #537

Tse, Pei Chiang. See Chiang Tse-p'ei.

Tse, Pei Tsian. See Chiang Tse-p'ei.

Tse, Sun Chow. See Chow, Tse-sun.

Tseitin, G. S. See Ceĭtin, G. S.

Tsen, Teh Wu. See Wu Chen-te.

Ts'eng K'en-ch'eng

(with Li Chiung-sheng) On the commutators of the simple Mathieu groups. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 43-48. (C. Y. Chao) 36 #270

(with Hsu Ch'eng-hao) On the commutators of two classes of finite simple groups. (Chinese) *Shuxue Jinzhan* 8 (1965), 202-208. (C. Y. Chao) 34 #5938

Tsénoff, Ivan. See Cenov, I. V.

Tserpes, Nicolas A.

(with Kartsatos, A. G.) A sufficient condition for the support of a measure to be a left group. *Boll. Un. Mat. Ital.* (4) 1 (1968), 538-539. (J. H. Neuwirth) 38 #4649

(with Kartsatos, Athanasius) Mesures semi-invariantes sur u semi-groupe localement compact. *C. R. Acad. Sci. Paris Sér. A -* 267 (1968), A507-A509. (J. H. B. Kemperman) 38 #6032

(with Mukherjea, Arunava) Espaces de probabilité quasi compacts. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A605-A606. (S. R. Foguel) 38 #3895

(with Kartsator, A. G.) On the equivalence of invariant integrals and minimal ideals in semigroups. *Bull. Austral. Math. Soc.* 1 (1969), 269-278. (T.-C. Sun) 40 #2822

(with Mukherjea, Arunava) Mesures de probabilité r^*-invariantes sur un semi-groupe métrique. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A318-A319. (H. Heyer) 41 #6258

(with Kartsatos, Athanasios) Mesures semi-invariantes sur un semi-groupe localement compact. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A538-A539. (E. Granirer) 39 #7068

The support of right invariant measures on semigroups. *Arch. Math. (Basel)* 21 (1970), 291-294. (L. N. Argabright) 42 #4669

(with Mukherjea, A.) Some problems on idempotent measures on semigroups. *Bull. Austral. Math. Soc.* 2 (1970), 299-315. (T.- Sun) 41 #7450

(with Sun, Tze-chien) A note on the idempotent measures on countable semigroups. *J. Austral. Math. Soc.* 11 (1970), 417-420. (A. Mukherjea) 43 #4958

(with Mukherjea, A.) On certain conjectures on invariant measures on semigroups. *Semigroup Forum* 1 (1970), *no.* 3, 260-266. (M. M. Day) 42 #4707

(with Kassimates, Constantine) A note on left simple topolog cal semigroups. *Semigroup Forum* 1 (1970), *no.* 3, 276-278. (Anne L. Hudson) 42 #1934

(with Kartsatos, A. G.) On semi-invariant probability measures on semigroups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 260-262. (R. A. Gangolli) 42 #7817

(with Sun, Tze-chien) Idempotent measures on locally compact semigroups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 273-278. (R. A. Gangolli) 42 #7816

(with Mukherjea, A.) A note on the embedding of topological semigroups. *Semigroup Forum* 2 (1971), *no.* 1, 71-75. (J. G. Horne 44 #360

(with Mukherjea, Arunava) Invariant measures on semigroups with closed translations. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 17 (1971), 33-38. (T.-C. Sun) 43 #4959

Tsertsvadze, G. N. See Cercvadze, G. N.

Tsetlin, M. L. See Cetlin, M. L.

Tsetlina, M. L. See Cetlin, M. L.

Tseytin, G. S. See Ceĭtin, G. S.

Tshebycheff, P. L. See Čebyšev, P. L.

Tshudakov, N. G. See Čudakov, N. G.

Tsian Tse-pei. See Chiang Tse-p'ei.

Tsichritzis, D.

Approximation and complexity of functions on the integers. *Information Sci.* 3 (1971), 77-86. (B. P. Zeigler) 44 #694

Tsien, Ling-hi. See Ch'ien Ling-hsi.

Tsien Ling-hi. See Ch'ien Ling-hsi.

Tsikin, I. A. See Cikin, I. A.

Tsilimigras, P. J.

Upper and lower limits of the roots of polynomials. *Internat. J. Control* (1) 12 (1970), 347-350. (Author's summary) 42 #5959

Perturbation theory of difference schemes. *Z. Angew. Math. Mech.* 50 (1970), 317. (J. W. Schmidt) 42 #5096

Tsitsas, Leonidas N.

Integral representations of linear maps. (Greek. English summary) *Bull. Soc. Math. Grèce (N.S.)* 6 II (1965), *fasc.* 2, 298-355. (J. Dugundji) 35 #765

Tso, W. K.

(with Caughey, T. K.) Parametric excitation of a nonlinear system. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 899-902. (C. S. Hsu) 32 #6737

Tsokos, Chris P.

(with Lakshmikantham, V.) Control systems and differential inequalities. *Proc. Cambridge Philos. Soc.* 64 (1968), 741-748. (B. Porter) 37 #522

* (with Leela, S.) Control systems and finite time stability. Notas e Comunicações de Matemática, No. 22. *Instituto de Matemática, Universidade Federal de Pernambuco, Recife,* 1969. i + 11 *pp.* (J. S. W. Wong) 41 #8086

(with Leela, S.) Control systems and finite time stability. (Romanian summary) *An. Univ. Timişoara Ser. Şti. Mat.* 7 (1969), 147-153. (A. Blaquière) 42 #4849

(with Rama Mohana Rao, M.) Finite time stability of control systems and integral inequalities. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 1-2, 105-112. (P. C. Parks) 41 #6595 (with Lakshmikanthan, V.; Leela, S.) Stability of controlled motion. *J. Math. Anal. Appl.* 26 (1969), 196-207. (G. MacKenzie) 38 #6168

On a stochastic integral equation of the Volterra type. *Math. Systems Theory* 3 (1969), 222-231. (Y. M. Chen) 40 #949

(with Rama Mohana Rao, M.) On the stability and boundedness of differential systems in Banach spaces. *Proc. Cambridge Philos. Soc.* 65 (1969), 507-512. (A. Pazy) 38 #3560

On the classical stability theorem of Poincaré-Lyapunov with a random parameter. *Proc. Japan Acad.* 45 (1969), 781-785. (J. Strand) 43 #6544

(with Rama Mohana Rao, M.) Integro-differential equations of Volterra type. *Bull. Austral. Math. Soc.* 3 (1970), 9-22. (W. T. Reid) 43 #3759

(with Roxin, Emilio) On the definition of a stochastic differential game. *Math. Systems Theory* 4 (1970), 60-64. (J. H. Case) 42 #7296

(with Padgett, W. J.) On a stochastic integral equation of the Volterra type in telephone traffic theory. *J. Appl. Probability* 8 (1971), 269-275. (Y. M. Chen) 44 #8033

The method of V. M. Popov for differential systems with random parameters. *J. Appl. Probability* 8 (1971), 298-310. (R. S. Bucy) 44 #6390

(with Padgett, W. J.) Existence of a solution of a stochastic integral equation in turbulence theory. *J. Mathematical Phys.* 12 (1971), 210-212. (Y. M. Chen) 43 #4149

(with Hamdan, M. A.) A model for physical and biological problems: The bivariate-compounded Poisson distribution. (French summary) *Rev. Inst. Internat. Statist.* 39 (1971), 60-63. (W. A. O'N. Waugh) 43 #4491

Tsoon, Wan-shia. See Chung Wan-hsieh.

Tsou, Hsi-shen

(with Higgins, Thomas J.) Generalized methods of the first-order approximation and of the refined first-order approximation for the analysis of nonlinear two-degree-of-freedom systems. *IEEE Internat. Convention Record* 1964, *pt.* 2, 265-281. (R. A. Struble) 37 #6563

Tsouyopoulos, Nelly

Das Ätherproblem und die Physik-Abhandlung des Nikephoros Blemmydes. *Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte (Festschrift für Kurt Vogel), pp.* 69-89. *Forschungsinst. Deutsch. Museums Gesch. Naturwissensch. Tech., Munich,* 1968. (B. Rozenfel'd) 39 #1267

Tsagas, Grigorios

A Riemannian space with strictly positive sectional curvature. *Pacific J. Math.* 25 (1968), 381-391. (W. B. Houston, Jr.) 37 #2134

An improvement of the method of Lichnerowicz-Bochner on the Betti numbers and curvature of a compact manifold. *Ann. Mat. Pura Appl.* (4) 83 (1969), 227-234. (R. L. Bishop) 41 #4442

Some properties of negative pinched Riemannian manifolds of dimensions 5 and 7. *J. Differential Geometry* 3 (1969), 523-530. (E. M. Zaustinsky) 41 #9151

A special deformation of the metric with no negative sectional curvature of a Riemannian space. *Pacific J. Math.* 29 (1969), 715-725. (J. R. Vanstone) 39 #6208

A relation between Killing tensor fields and negative pinched Riemannian manifolds. *Proc. Amer. Math. Soc.* 22 (1969), 476-478. (K. Takano) 39 #3429

Special curves of a hypersurface of a Riemannian space. *Tensor (N.S.)* 20 (1969), 88-90. (I. Chavel) 39 #2095

On the second cohomology group of a pinched Riemannian manifold. *Ann. Mat. Pura Appl.* (4) 86 (1970), 299-311. (D. G. Ebin) 42 #6756

Killing forms in a Riemannian manifold with boundary. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 349-356. (I. Chavel) 42 #3712

On the cohomology ring of a pinched Riemannian manifold of dimension 4. *Math. Ann.* 185 (1970), 75-80. (M. Klingmann) 41 #6112

On the 40/191-pinched Riemannian manifold of dimension 7. *Tensor (N.S.)* 21 (1970), 65-69. (Ph. Tondeur) 40 #6454

An improvement of the method of Yano on Killing tensor fields and curvature of a compact manifold. *Tensor (N.S.)* 21 (1970), 307-310. (T. K. Pan) 41 #9152

On the Pontrjagin numbers of positively-pinched Riemannian manifolds. *Tensor (N.S.)* 21 (1970), 377-379. (E. M. Zaustinsky) 41 #9153

The absolute and relative Betti numbers of a manifold with boundary. *J. Differential Geometry* 5 (1971), 285-293. (C.-C. Hsiung) 44 #5893

Some properties of the curvature operator of a Riemannian manifold. *Math. Z.* 119 (1971), 283-286. (K. Yano) 43 #3968

Tsai, Chen-Peng

(with Ling, Chih-Bing) Evaluation at half periods of Weierstrass' elliptic function with rhombic primitive period-parallelogram. *Math. Comp.* 18 (1964), 433-440. (W. M. Kincaid) 29 #2941

Tsai, Chester E.

Flexible partially stable algebras. *Trans. Amer. Math. Soc.* 122 (1966), 48-63. (R. H. Oehmke) 33 #4113

A class of non-commutative Jordan algebra. *Portugal. Math.* 26 (1967), 149-157. (L. J. Paige) 41 #3552

Von Neumann regularity in Jordan algebras. *Proc. Amer. Math. Soc.* 18 (1967), 726-728. (V. K. Balachandran) 36 #229

On associators in Jordan algebras. *Amer. Math. Monthly* 75 (1968), 748-749. (A. A. Sagle) 38 #2182

The prime radical in a Jordan ring. *Proc. Amer. Math. Soc.* 19 (1968), 1171-1175. (A. A. Sagle) 37 #6336

A characterization of the maximal von Neumann regular ideal in Jordan rings. *J. Algebra* 12 (1969), 227-230. (P. S. Rema) 39 #1507

The Levitzki radical in Jordan rings. *Proc. Amer. Math. Soc.* 24 (1970), 119-123. (K.-H. Helwig) 40 #5685

Tsai, Long-yi

A generation of Fasenmyer's technique for computing linear recursion relationships. *Tamkang J. Math.* 1 (1970), *no.* 1, 27-40. (Y. L. Luke) 41 #7167

Tsakonas, S.

(with Chen, C. Y.; Jacobs, W. R.) Acoustic radiation of an infinite plate excited by the field of a ship propeller. *J. Acoust. Soc. Amer.* 36 (1964), 1708-1717. (V. M. Papadopoulos) 30 #5647

Tsalenko, M. S. See Calenko, M. S.

Tsaliuk, Z. B. See Caljuk, Z. B.

Tsangas, Gregorios

Two special categories of normal rectilinear congruences. *Bull. Soc. Math. Grèce (N.S.)* 7 (1966), *fasc.* 1, 161-172. (K. K. Gorowara) 35 #7231

Sur deux classes particulières de congruences de normales. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A407-A409. (A. Urban) 34 #8303

Tsao, Chia Kuei

A moment generating function of the hypergeometric distributions. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.,* 1963*), pp.* 75-78. *Statistical Publishing Society, Calcutta,* 1965. (G. P. Patil) 36 #928

Distribution of the product in random samples from a finite population. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.,* 1963*), pp.* 427-436. *Statistical Publishing Society, Calcutta,* 1965. (M. Atiqullah) 37 #7026

Admissibility and distribution of some probabilistic functions of discrete finite state Markov chains. *Ann. Math. Statist.* 39 (1968), 1646-1653. (K. Dietz) 37 #6001

On some sequential statistical decision functions based on grouped frequency distributions. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April* 1, 1970*), pp.* 273-297. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (R. V. Hogg) 43 #2801

Tsao, S.

(with Walowit, J.; DiPrima, R. C.) Stability of flow between arbitrarily spaced concentric cylindrical surfaces including the effect of a radial temperature gradient. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 585-593. (F. E. Bisshopp) 31 #986

Tsao Chung-ling. See Ts'ao Chung-tsai.

Ts'ao Chung-tsai

Rational function approximation to solutions of multiply-connected Hilbert boundary value problems. (Chinese) *Shuxue Jinzhan* 7 (1964), 65-71. 38 #3448

Ts'ao Sun. See Sun Ch'ao.

Tsao-wu, Nelson T.

(with Chang, Sze-hou) On the evaluation of minimum distance of binary arithmetic cyclic codes. *IEEE Trans. Information Theory* IT-15 (1969), 628-631. (Authors' summary) 42 #5718

Tsaregradski, I. P. See Caregradskiĭ, I. P.

Tsariuk, L. B. See Carjuk, L. B.

Tsau, Chih-shen

Algebras of continuous functions. (Chinese summary) *Tamkang J. No.* 6 (1967), 357-364. (D. A. Arterburn) 39 #6083

Tsekvava, B. E. See Cekvava, B. E.

Tsuan, Wu Ting. See Ting, Tsuan Wu.

Tsuboi, Michio

(with Higuchi, Teiichi) On the exactness of a Kodaira-Spencer sequence on complex-spaces. *Math. Z.* 116 (1970), 331-337. (H. Kerner) 43 #3496

Tsuboi, Teruo

n-representative domains and *n*-minimal domains in several complex variables. *Sci. Rep. Saitama Univ. Ser. A* 4, 1-14 (1961). (R. P. Gilbert) 30 #279 (with Matsuura, Syozo) Some canonical domains in C^n and moment of inertia theorems. *Duke Math. J.* 36 (1969), 517-536. (E. Gottschling) 41 #509

Tsuchida, Kisuke

(with Ando, Hideo) On the generalized cohomology suspension. *Sci. Rep. Fac. Lit. Sci. Hirosaki Univ.* 10 (1963), 35-45. (S.-T. Hu) 29 #2801

On the I. M. James theorem in the Stiefel manifold $V_{n+1,2}$. *Sci. Rep. Fac. Lit. Sci. Hirosaki Univ.* 11 (1964), 1-8. (I. M. James) 30 #4263

Principal cofibrations. *Tôhoku Math. J.* (2) 16 (1964), 321-333. (P. J. Hilton) 31 #1678

Homology obstructions in cofibrations. *Sci. Rep. Fac. Sci. Hirosaki Univ.* 12 (1965), 1-7. (J.-P. Meyer) 34 #3583

The homology decomposition for a cofibration. *Tôhoku Math. J.* (2) 17 (1965), 117-129. (W. D. Barcus) 33 #3299

Generalized James product and the Hopf construction. *Tôhoku Math. J.* (2) 17 (1965), 319-334. (W. D. Barcus) 33 #4934

(with Ando, Hideo) On excision and its applications. *Sci. Rep. Hirosaki Univ.* 13 (1966), 92-103. (George McCarty) 40 #6545

Cotriad and triad. *Tôhoku Math. J.* (2) 18 (1966), 1-12. (S.-T. Hu) 34 #5089

(with Kudo, Yoshimitsu) On the generalized Barcus-Barratt sequence. *Sci. Rep. Hirosaki Univ.* 14 (1967), 1-9. (W. D. Barcus) 41 #4538

(with Kudo, Yoshimitsu) Categorical invariants and fibre spaces. *Sci. Rep. Hirosaki Univ.* 17 (1970), 1-6. (Larry Smith) 43 #5533

Generalized Puppe sequence and Spanier-Whitehear duality. *Tôhoku Math. J.* (2) 23 (1971), 37-48. (R. E. Mosher) 44 #4747

Tsuchikawa, Masao

On the representations of SL(3,*C*). I, II, III. *Proc. Japan Acad.* 43 (1967), 852-855; *ibid.* 44 (1968), 127-129; *ibid.* 44 (1968), 130-132. (H. Jacquet) 37 #2903

Unitary representations of SL*(n,C)*. *Proc. Japan Acad.* 44 (1968), 859-863. (H. Jacquet) 39 #353

Tsuchikura, Tamotsu

(with Kazamaki, Norihiko) Weighted averages of submartingales. *Tôhoku Math. J.* (2) 19 (1967), 297-302. (K. Krickeberg) 36 #4629

Sample properties of martingales and their arithmetic means. *Tôhoku Math. J.* (2) 20 (1968), 400-415. (K. Krickeberg) 38 #6651

Tsuchkya, Akihiro

Characteristic classes for spherical fiber spaces. *Proc. Japan Acad.* 44 (1968), 617-622. (T. tom Dieck) 40 #2115

Characteristic classes for PL micro bundles. *Bull. Amer. Math. Soc.* 77 (1971), 531-534. (J. McNamara) 43 #5538

Tsuchiya, T.

(with Ohtsuki, T.; Ishizaki, Y.; Watanabe, Hitoshi; Kajitani, Y.; Kishi, G.) Topological degrees of freedom of electrical networks. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 644-653. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8166

Tsuda, Mitsuru

On the normality of certain product spaces. *Proc. Japan Acad.* 40 (1964), 465-467. (E. Michael) 30 #2465

(with Ishii, Tadashi; Kunugi, Shin-ichi) On the product of *M*-spaces. I, II. *Proc. Japan Acad.* 44 (1968), 897-900; *ibid.* 44 (1968), 901-903. (E. Michael) 38 #3815

Tsuda, Takao

(with Kiyono, Takeshi) Application of the Monte Carlo method to systems of nonlinear algebraic equations. *Numer. Math.* 6 (1964), 59-67. (R. R. Coveyou) 29 #1724

(with Matsumoto, Hiroshi) A note on linear extrapolation of multivariable functions by the Monte Carlo method. *J. Assoc. Comput. Mach.* 13 (1966), 143-150. (J. H. Halton) 33 #3436

(with Ichida, Kozo; Kiyono, Takeshi) Monte Carlo path-integral calculations for two-point boundary-value problems. *Numer. Math.* 10 (1967), 110-116. (J. Spanier) 36 #1077

(with Ichida, Kozo) Nonlinear interpolation of multivariable functions by the Monte Carlo method. *J. Assoc. Comput. Mach.* 17 (1970), 420-425. (D. C. Handscomb) 43 #5680

Tsuda, Yoshikazu

On partially analytic space. (Japanese) *Sûgaku* 16 (1965), 230-235. (S. Hitotumatu) 33 #5946

Tsuji, Hidekazu

(with Tanaka, Kokichi; Toyoda, Junichi; Mizumoto, Masaharu) Fuzzy automata theory and its application to automatic controls. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 541-550. (Editors) 42 #4341

Tsuji, Kazô

On a construction of annihilating spaces. *Proc. Japan Acad.* 40 (1964), 662-663. (S. Sakai) 30 #3383

The J. von Neumann commutation theorem. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 13 (1966), 1-3. (S. Sakai) 33 #6431

Tensor product of annihilating spaces. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 13 (1966), 15-18. (S. Sakai) 33 #643

Correction to: "Annihilators of von Neumann algebras (annihilating spaces)". *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 13 (1966), 19. (Editors) 33 #4704

Tsuji, Kumiko

Note on the proof of a theorem concerning the instability. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 21 (1967), 104-107. (R. P. de Figueiredo) 38 #1353

(with Furukawa, Nagata) On the existence of optimal controls in a nonlinear differential system. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 128-140. (E. O. Roxin) 39 #7253

Tsuji, Setsuzo

(with Nakamura, Masatoshi; Ishii, Masaru) Optimal control with the estimation of unknown polynomial. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 545-553. (Authors' summary) 42 #4282

(with Takata, Hitoshi; Kamiya, Kenji) On the discrete-time nonlinear filter containing the rational expression of the observation error as the correction term. (Japanese. English summary) *Systems and Control* 15 (1971), 702-714. (Authors' summary) 44 #3731

Tsujii, Shigeo

(with Kasai, Hiroyuki) An algebraic method of computing the power spectra of coded pulse trains. *Electron. Commun. Japan* 51 (1968), *no.* 7, 36-44. (Authors' summary) 42 #7408

Tsujioka, Kunio

(with Miyamoto, Munemi) A theorem on a multiplication operator in certain function spaces. *Sci. Papers College Gen. Ed. Univ. Tokyo* 17 (1967), 141-154. (T. Ando) 37 #767

Remarks on controllability of second order evolution equations in Hilbert spaces. *SIAM J. Control* 8 (1970), 90-99. (H. O. Fattorini) 42 #5665

Tsukada, Kishio

On the conjecture of E. W. Cheney and P. C. Curtis, Jr. I. *Bull. Tokyo Gakugei Univ.* 16 (1964), 1-3. (H. A. Gindler) 38 #2509

(with Saitô, Tôru) A counter-example for a theorem of Vinogradov. *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 1-2. (J. C. Ault) 36 #90

Tsukada, Kunio

(with Itô, Takashi) On a representation of a certain linear transformation on vector lattices. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964/65), 109-113. (O. Frink) 31 #2603

Tsukamoto, Katsuji

(with Nakamura, Gisaku; Murao, Yo) Analysis of waiting-time distribution for the round-robin scheduling scheme. *Electron. Commun. Japan* 52 (1969), *no.* 1, 153-161. (C. E. M. Pearce) 41 #4691

Tsukamoto, T. See Tsukamoto, Tatsuo.

Tsukamoto, Takashi

On the dimension of the space of automorphic forms. (Japanese) *Sûgaku* 13 (1961/62), 154-157. (T. Kubota) 35 #2831

Tsukamoto, Tatsuo

(with Morita, M.; Morita, R.; Yamada, Masami) Clebsch-Gordan coefficients for $j_2 = 5/2$, 3 and 7/2. *Propgr. Theoret. Phys. Suppl. No.* 26 (1963), 64-74. 29 #3167

(with Sasakawa, Tatuya) Symmetry property of the *S* matrix on the basis of the Jost function method. *Progr. Theoret. Phys.* 34 (1965), 442-454. (V. de Alfaro) 32 #6936

Tsukamoto, Yôtarô

A global property of Riemannian spaces of positive curvature. (Japanese) *Sûgaku* 15 (1963), 97-101. (S. Kobayashi) 29 #1600

On the topology of Kählerian spaces with negative holomorphic sectional curvature. (Japanese) *Math. Rep. General Ed. Department Kyushu Univ.* 1 (1964), 3-6. (Y. Tashiro) 37 #2153

On the topological structure of a certain type of Riemannian manifold. *Math. Rep. General Ed. Department Kyushu Univ.* 3 (1965), 27-32. (S. Kobayashi) 39 #895

* Riemann-tayōtai-no kyokuritu, sokutisen to isō kōzō. (Japanese) [Curvature, geodesics and topological structures of Riemannian manifolds] Publications of the Study Group of Geometry, Vol. 2. *Kyoto Univ., Kyoto,* 1966. x + 193 *pp.* (K. Nomizu) 37 #2135

On certain Riemannian manifolds of positive curvature. *Tôhoku Math. J.* (2) 18 (1966), 44-49. (R. L. Bishop) 34 #8343

Closed geodesics on certain Riemannian manifolds of positive curvature. *Tôhoku Math. J.* (2) 18 (1966), 138-143. (W. Klingenberg) 34 #3501 (E)

Some corrections to: "Closed geodesics on certain Riemannian manifolds of positive curvature". *Tôhoku Math. J.* (2) 21 (1969), 674-675. (W. Klingenberg) 41 #7580 (with Yamaguchi, T.) On certain positively curved submanifolds in Kaehler manifolds. *Math. Rep. College General Ed. Kyushu Univ.* 7 (1970), *no.* 2, 37-39. (K. Yano) 42 #6766

Tsukanow, I. N. See Cukanov, Ī. M.

Tsukata, Kishio

On the existence of a certain kind of limit. (Japanese) *Bull. Tokyo Gakugei Univ.* 15 (1964), 1-2. (S. Sakai) 30 #3359

Tsukibayashi, Shomei

Stratified sampling and systematic sampling with supplementary data. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 11 (1964), 137-146. (E. H. Lehman, Jr.) 30 #3561

Tsumura, Bunjiro

On arithmetic properties of symmetric functions of consecutive integers. *Proc. Japan Acad.* 43 (1967), 693-696. (D. A. Klarner) 36 #5075

Tsun, Wu Tai. See Wu, Tai Tsun.

Tsuno, Yoshimichi

Analytic functionals and distributions. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 145-152. (C. W. Swartz) 44 #4518

Tsurkov, I. S. See Curkov, I. S.

Tsurumi, Kazuyuki

Potential theory in Bergman spaces. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 8, 122-132 (1964). (A. Korányi) 29 #1356

On polynominal and rational convexity. *Res. Rep. Tokyo Electrical Engrg. College No.* 14 (1966), 43-53. (J. Kajiwara) 39 #3025

Some remarks on polynomial and rational convexity. *Sci. Rep. Tokyo Kyoiku Diagaku Sect. A* 9, 111-115 (1966). (S. Hitotumatu) 33 #5947

(with Kanemaru, T.) Boundary properties of analytic functions. *Sci. Rep. Tokyo Kyoiku Diagaku Sect. A* 9, 199-203 (1968). (E. L. Stout) 37 #1651

(with Jimbo, Toshiya) Some properties of holomorphic convexity in general function algebras. *Sci. Rep. Tokoyo Kyoiku Daigaku Sect. A* 10, 178-183 (1969). (E. L. Stout) 41 #4254

Tsurumi, Shigeru

Ergodic theorems. (Japanese) *Sûgaku* 13 (1961/62), 80-88. (Yuji Itô) 29 #3607

On isomorphism properties of measure-preserving transformations. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Sendai, 1967) (Japanese), pp.* 23-31. *Math. Inst. Tôhoku Univ., Sendai*, 1967. (T. Hida) 44 #6940

Tsushima, Yukio

Radicals of group algebras. *Osaka J. Math.* 4 (1967), 179-182. (R. E. Peinado) 36 #1557

A group algebra of a p-solvable group. *Osaka J. Math.* 5 (1968), 89-98. (R. E. Peinado) 38 #2226

Tsutakawa, R. K.

Asymptotic properties of the block up-and-down method in bio-assay. *Ann. Math. Statist.* 38 (1967), 1822-1828. (Lionel Weiss) 36 #1040

Random walk design in bio-assay. *J. Amer. Statist. Assoc.* 62 (1967), 842-856. (Author's summary) 35 #6320

An example of large discrepancy between measures of asymptotic efficiency of tests. *Ann. Math. Statist.* 39 (1968), 179-182. (A. P. Ifram) 36 #6038

Tsutsui, Shigeyoshi

(with Tanaka, Hideo) Synthesis of linear feedback control systems based on sensitivity considerations. (Japanese. English summary) *J. Japan. Assoc. Automat. Control Engrs.* 13 (1969), 457-465. (Authors' summary) 42 #4281

Tsutsumi, Akira

On the uniqueness of the Cauchy problem for semi-elliptic partial differential equations. I, II. *Proc. Japan Acad.* 39 (1963), 781-786; *ibid.* 39 (1963), 787-790. (F. Treves) 29 #6166

On the uniqueness of the Cauchy problem for semi-elliptic partial differential equations. III. *Proc. Japan Acad.* 40 (1964), 259-261. (F. Treves) 29 #6167

A remark on the uniqueness of the non-characteristic Cauchy problem for equations of parabolic type. *Proc. Japan Acad.* 41 (1965), 65-70. (J. Elliott) 32 #296

On Goursat problem. I. *Proc. Japan Acad.* 43 (1967), 633-637. (C. Harvey) 36 #6797

(with Duff, G. F. D.) On domains of dependence and partial lacunas for symmetric hyperbolic systems. *J. Math. Mech.* 19 (1969/70), 219-237. (J. Bazer) 40 #4604

Tsutsumi, Masayoshi

(with Iino, Riichi) On the global solution of a certain nonlinear partial differential equation. *Proc. Japan Acad.* 45 (1969), 466-469. (J. Smoller) 40 #4615

On the Cauchy problem for a certain nonlinear hyperbolic partial differential equation of the second order. *Proc. Japan Acad.* 46 (1970), 162-167. (E. C. Young) 43 #6574

(with Mukasa, Toshio; Iino, Riichi) On the generalized Korteweg-de Vries equation. *Proc. Japan Acad.* 46 (1970), 921-925. (A. Elcrat) 44 #7158

Tsuzuki, Masanobu

The spherical derivative of regular and meromorphic functions of bounded characteristic. *Kōdai Math. Sem. Rep.* 19 (1967), 410-414. (Y. Kusunoki) 37 #425

Continuations of normal meromorphic functions. *Math. Z.* 105 (1968), 213-218. (A. J. Lohwater) 38 #1271

On the characteristic of an algebroid function. *Kōdai Math. Sem. Rep.* 21 (1969), 277-280. (Y. Kusunoki) 40 #4466

(with Misu, Takehiro) A remark on a conjecture of Paley. *Proc. Japan Acad.* 45 (1969), 429-432. (A. Weitsman) 40 #5864

Tsuzuki, Toshio

Magnetic field dependence of the energy gap and the current density for a superconductor. *Progr. Theoret. Phys.* 31 (1964), 388-398. (K. K. Gupta) 30 #4526

Tsuzuku, Tosiro

A characterization of finite projective linear groups. *Proc. Japan Acad.* 40 (1964), 155-156. (J. McLaughlin) 29 #5919

On primitive extensions of rank 3 of symmetric groups. *Nagoya Math. J.* 27 (1966), 171-177. (H. Nagao) 33 #1358

On doubly transitive permutation groups of degree $1 + p + p^2$ where p is a prime number. *J. Algebra* 8 (1968), 143-147. (D. Livingstone) 36 #1527

Transitive extensions of certain permutation groups of rank 3. *Nagoya Math. J.* 31 (1968), 31-36. (O. Nagai) 36 #3866

Tsybakov, B. S. See Cybakov, B. S.

Tsypkin, Ya. Z. See Cypkin, Ja. Z.

Tsyrlin, L. È. See Cyrlin, L. È.

Tsytovich, V. N. See Cytovič, V. N.

Tu, C. C.

Non-tangential limits of a solution of a boundary-value problem for the heat equation. *Math. Systems Theory* 3 (1969), 130-138. (J. R. Cannon) 40 #3081

(with Jones, B. Frank, Jr.) Embedding and continuation theorems of parabolic function spaces. *Amer. J. Math.* 92 (1970), 857-868. (P. Grisvard) 43 #6718

(with Jones, B. Frank, Jr.) Non-tangential limits for a solution of the heat equation in a two-dimensional LIP_α region. *Duke Math. J.* 37 (1970), 243-254. (D. T. Haimo) 41 #4026

Tuan, S. F.

(with Gyuk, I. P.) Possible new baryon states of SU(6) symmetry. *Phys. Rev. Lett.* 14 (1965), 121-126. (R. T. Prosser) 32 #8848d

Tuan, T. F.

(with Tadić, D.) On the partial-wave amplitudes for three-body scattering. (Italian summary) *Nuovo Cimento* (10) 36 (1965), 463-482. (J. T. Cushing) 34 #1037

Tucci, Francesco

Sulla quasi-contrattivita' di un'applicazione di uno spazio pre-metriço in sé. (English summary) *Rend. Ist. Mat. Univ. Trieste* 3 (1971), 52-61. (K. Floret) 44 #7256

Tučinskiĭ, L. I.

Certain generalizations of the classical mean value theorems. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 208-213. (I. Cenov (RŽMat 1967 #8 B3)) 39 #4334

The Lebesgue functions of a certain interpolation process. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 3, 32-37. (J. Szabados) 41 #4065

The approximation of continuous and differentiable functions by Sturm-Liouville polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969 *no.* 9 (88), 76-88. (J. Szabados) 41 #2262

Tuck, E. O.

The effect of non-linearity at the free surface on flow past a submerged cylinder. *J. Fluid Mech.* 22 (1965), 401-414. (J. V. Wehausen) 32 #694

On line distributions of Kelvin sources. *J. Ship Res.* 8 (1964/65), *no.* 2, 45-52. (F. Ursell) 30 #5613

A systematic asymptotic expansion procedure for slender ships. *J. Ship Res.* 8 (1964/65), *no.* 1, 15-23. (E. V. Laitone) 30 #5612

Tučke, V. See Tutschke, Wolfgang.

Tucker, A. C.

Characterizing the consecutive 1's property. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 472-477. *Univ. North Carolina, Chapel Hill, N. C.*, 1970. (Fred Roberts) 42 #1681 (with Hu, T. C.) Optimum binary search trees. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N.C., 1970), pp.* 285-305. *Univ. North Carolina, Chapel Hill, N.C.*, 1970. (Authors' summary) 42 #1709

Characterizing circular-arc graphs. *Bull. Amer. Math. Soc.* 76 (1970), 1257-1260. (F. S. Roberts) 43 #1877

Tucker, Albert W.

Complementary slackness in dual linear subspaces. *Mathematics of the Decision Sciences, Part I (Seminar, Stanford, Calif., 1967), pp.* 137-143. *Amer. Math. Soc., Providence, R.I.*, 1968. (Author's introduction) 38 #4142

A least-distance approach to quadratic programming. *Mathematics of the Decision Sciences, Part I (Seminar, Stanford, Calif., 1967), pp.* 163-176. *Amer. Math. Soc., Providence, R. I.*, 1968. (O. Gürel) 39 #2463

(with Balinski, M. L.) Duality theory of linear programs: A constructive approach with applications. *SIAM Rev.* 11 (1969), 347-377. (J. T. Howson, Jr.) 41 #3098

(with Parsons, T. D.) Reduced matrices of graphs. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N.C., 1970), pp.* 373-380. *Univ. North Carolina, Chapel Hill, N.C.*, 1970. (Authors' summary) 42 #1680

Tucker, Charles

Limit of a sequence of functions with only countably many points of discontinuity. *Proc. Amer. Math. Soc.* 19 (1968), 118-122. (R. W. Bagley) 36 #2112

Tucker, Don H.

(with Kurtz, L. C.) Vector-valued summability methods on a linear normed space. *Proc. Amer. Math. Soc.* 16 (1965), 419-428. (A. Alexiewicz) 33 #7735

A representation theorem for a continuous linear transformation on a space of continuous functions. *Proc. Amer. Math. Soc.* 16 (1965), 946-953. (A. Alexiewicz) 33 #7865

(with Easton, R. J.; Wayment, S. G.) On the existence almost everywhere of the cross partial derivatives. *Math. Z.* 102 (1967), 171-176. (A. M. Bruckner) 36 #1588

A note on Bernstein polynomial type approximations. *Proc. Amer. Math. Soc.* 18 (1967), 492-494. (John Todd) 35 #5840

(with Coles, W. J.) Zeros of solutions of complex differential equations. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 14(18) (1968), *fasc.* 1-2, 61-68. (Y. Sibuya) 40 #5946

(with Kurtz, Lynn C.) An extended form of the mean-ergodic theorem. *Pacific J. Math.* 27 (1968), 539-545. (U. Krengel) 38 #4856

Boundary value problems for linear differential systems. *SIAM J. Appl. Math.* 17 (1969), 769-783. (F. Max Stein) 40 #5958

(with Peterson, G. E.) On the equivalence in Banach spaces of a convergence theorem of Bernstein type, a Hausdorff type moment problem and a regularity theorem. *Tôhoku Math. J.* (2) 21 (1969), 170-189. (M. S. Ramanujan) 40 #3146

(with Wayment, S. G.) Absolute continuity and the Radon-Nikodym theorem. *J. Reine Angew. Math.* 244 (1970), 1-19. (J. Diestel) 42 #7859

Tucker, Howard G.

On quasi-convergence of series of independent random variables. *Proc. Amer. Math. Soc.* 16 (1965), 435-439. (T. Hida) 31 #4075

On a necessary and sufficient condition that an infinitely divisible distribution be absolutely continuous. *Trans. Amer. Math. Soc.* 118 (1965), 316-330. (T. Onoyama) 31 #6285

(with Feldman, Dorian) Estimation of non-unique quantiles. *Ann. Math. Statist.* 37 (1966), 451-457. (I. Olkin) 32 #6616

* A graduate course in probability. Probability and Mathematical Statistics, Vol. 2. *Academic Press, Inc., New York-London*, 1967. xiii + 273 pp. (J. R. Kinney) 36 #4593

Convolutions of distributions attracted to stable laws. *Ann. Math. Statist.* 39 (1968), 1381-1390. (F. Eicker) 37 #5920

On asymptotic independence of the partial sums of positive and negative parts of independent random variables. *Advances in Appl. Probability* 3 (1971), 404-425. (D. L. Burkholder) 44 #6017

Tucker, Joe

Concerning consecutive derived sets. *Amer. Math. Monthly* 74 (1967), 555-556. (F. Burton Jones) 35 #7283

Tucker, Ledyard R.

Some mathematical notes on three-mode factor analysis. *Psychometrika* 31 (1966), 279-311. (P. S. Dwyer) 34 #5224

Tucker, Patricia A.

On the reduction of induced indecomposable representations. *Amer. J. Math.* 87 (1965), 798-806. (C. W. Curtis) 33 #2734

Endomorphism ring of an induced module. *Michigan Math. J.* 12 (1965), 197-202. (J. E. Adney) 31 #5896

Tucker, R. H.

(with Hammer, C. L.) A method of quantization for relativistic fields. *J. Mathematical Phys.* 12 (1971), 1327-1333. (H. S. P. Grässer) 44 #2440

Tucker, Richard R.

Remark concerning a paper by Imanuel Marx. *J. Math. and Phys.* 45 (1966), 233-234. (M. S. Ramanujan) 33 #6188

The δ^2-process and related topics. *Pacific J. Math.* 22 (1967 349-359. (P. Szüsz) 36 #1864

The δ^2-process and related topics. II. *Pacific J. Math.* 28 (1969), 455-463. (P. Szüsz) 39 #4544

Tucker, Robert

(See Clifford, William Kingdon, 39 #26)

Tucker, T. S.

Leray-Schauder theorem for *P*-compact operators and its consequences. *J. Math. Anal. Appl.* 23 (1968), 355-364. (M. Edelstein) 37 #6805

Stability of nonlinear computing schemes. *SIAM J. Numer. Anal.* 6 (1969), 72-81. (D. R. Arterburn) 40 #3743

(with Petryshyn, W. V.) On the functional equations involving nonlinear generalized *P*-compact operators. *Trans. Amer. Math. Soc.* 135 (1969), 343-373. (T. Kato) 40 #804

Tucker, Thomas W.

(with Bender, Edward A.) The exponents of strongly connected graphs. *Canad. J. Math.* 21 (1969), 769-782. (M. Aigner) 39 #6766

Tudor, C.

On a theorem of Aronszajn. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 295-299. (G. Marinescu) 34 #3307

Bilocal boundary problem for linear differential equations. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 793-801. (J. Horváth) 35 #444

(with Marinescu, G.) Sur la transformation de Laplace des distributions. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1323-1327. (Z. Ditzian) 38 #6310

The Laplace transform of distributions. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1521-1536. (M. Şabac (Zbl 171, 113)) 40 #4758

A fixed point theorem in locally convex spaces. *Arch. Math. (Brno)* 4 (1968), 103-105. (S. Swaminathan) 42 #2336

On Ishihara's definition of Laplace transform. *Math. Japon.* 13 (1968), 33-35. (A. H. Zemanian) 38 #3697

On Ishihara's definition of Laplace transform. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1039-1041. (A. H. Zemanian) 38 #3696

On a convolution algebra. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 933-937. (Author's summary) 40 #3306

Tudor, Gh.

(with Crstici, B.) Une formule de composition semi-groupale avec application au calcul de certaines intégrales impropres. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 55-60. (Editors) 37 #6630

Two general formulae for the calculation of certain improper integrals. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 14(28) (1969), *fasc.* 1, 73-77. (Editors) 40 #4401

Tufts, D. W.

(with Shnidman, D. A.) Optimum waveforms subject to both energy and peak-value constraints. *Proc. IEEE* 52 (1964), 1002-1007. (Y. H. Ku) 31 #1109

(with Johnson, Norman L.) Methods for recovering a random waveform from a finite number of samples. *IEEE Trans. Circuit Theory* CT-12 (1965), 32-39. (C. L. Sheng) 31 #4644

Tugov, I. I.

A class of equivalent equations. (Russian) *Mat. Zametki* 2 (1967), 657-663. (T. Styś) 36 #4116

Group properties (in the large) of second order partial differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 1073-1076. (T. Styś) 38 #399

The *P*-separation of variables in the Schrödinger equation. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 685-694. (T. Styś) 37 #6616

Conformal covariance and invariant formulation of scalar wave equations. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 11 (1969), 207-220. (M. Sachs) 40 #3854

P-separation of variables in Laplace's equation. (Russian) *Mat. Zametki* 8 (1970), 121-127. (E. L. Albasiny) 43 #5177

Tugué, Tosiyuki

On the partial recursive functions of ordinal numbers. *J. Math. Soc. Japan* 16 (1964), 1-31. (R. O. Gandy) 29 #4677

(with Tanaka, Hisao) A note on the effective descriptive set theory. *Comment. Math. Univ. St. Paul.* 15 (1966), 19-28. (Đ. Kurepa) 35 #63

A lemma for negationless propositional logics and its applications. *Nagoya Math. J.* 30 (1967), 303-308. (J. E. Rubin) 35 #6521

(with Nagata, Shûrô) A remark on Peirce's law. *Nagoya Math. J.* 33 (1968), 1-5. (J. Drabbe) 38 #981

(with Hinata, Sigeru) A note on continuous functionals. *Ann. Japan Assoc. Philos. Sci.* 3, 138-145 (1969). (From the authors' introduction) 40 #4108

Ţugulea, Aurora Baciu. See Baciu-Ţugulea, Aurora.

Tuǐ, Hoang. See Hoãng Tuy.

Tujakbaeva, A. A.

On the investigation of the scientific heritage of Isaac Barrow. (Russian) *Proc. Second Kazakhstan Interuniv. Sci. Conf. Math. Mech.* (1965) *(Russian), pp.* 248-252. *(errata insert) Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. (C. J. Scriba) 41 #5165

From the history of the arithmetic of multiplace numbers. (Russian) *Proc. Second Kazakhstan Interuniv. Sci. Conf. Math. Mech.* (1965) *(Russian), pp.* 252-254. *(errata insert) Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. (E. Orlovsky) 44 #14

Tukalevs′ka, N. Ī.

On a certain method of solving linear integral equations of Volterra type. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 998-1002. (Č. Masaitis) 33 #5155

Approximate solution of linear integral equations of Volterra type. (Russian) *First Republ. Math. Conf. on Young Researchers, Part I (Russian), pp.* 636-640. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 33 #6318

(with Nesterčuk, A. V.) On a method of solving linear integral equations of Volterra type. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 95-101. (A. Haimovici) 32 #8084

On a certain method of approximate solution of Volterra type linear integral equations in the class of L^p-functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 299-302. (Author's summary) 33 #4629

(with Kaspšic′ka, M. F.) On the question of convergence of the collocation method. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 4, 48-56. (Walter Gautschi) 35 #3928

(with Tivončuk, V. I.) A new method of approximate solution of Volterra integral equations. (Russian) *Mathematical Provisioning of Electronic Digital Computers and Effective Organization of the Computing Process (Proc. Seminar, Kiev, 1968). No. 2 (Russian), pp.* 102-109. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (J. Burlak) 39 #7366

Tukalevskaja, N. I. See Tukalevs′ka, N. Ī.

Tukešev, O.

(with Imanaliev, M.; Ramankulov, S.) Asymptotic estimates of solutions of the Cauchy problem for systems of Volterra type nonlinear integro-differential equations with several parameters multiplying the highest derivatives. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 5 (Russian), pp.* 90-120. *(errata insert) Izdat. "Ilim", Frunze,* 1968. (M. Fredorjuk (RŽMat 1969 #8 B423)) 40 #6218

Tukey, John W.

(with McLaughlin, Donald H.) Less vulnerable confidence and significance procedures for location based on a single sample: Trimming/Winsorization. I. *Sankhya Ser. A* 25 (1963), 331-352. (Authors' summary) 29 #6605

(with Anscombe, F. J.) The examination and analysis of residuals. *Technometrics* 5 (1963), 141-160. (P. S. Dwyer) 32 #4793

(with Kurtz, T. E.; Link, R. F.; Wallace, D. L.) Short-cut multiple comparisons. II. Derivations and approximations. *Biometrika* 52 (1965), 485-498. (D. A. Sprott) 35 #3790

(with Pearson, E. S.) Approximate means and standard deviations based on distances between percentage points of frequency curves. *Biometrika* 52 (1965), 533-546. (A. K. Gayen) 35 #1103

(with Stephan, Frederick F.; Mosteller, Frederick; Mood, Alex M.; Hansen, Morris H.; Simon, Leslie E.; Dixon, W. J.) Samuel S. Wilks. *J. Amer. Statist. Assoc.* 60 (1965), 939-966. (Editors) 32 #8420

(with Cooley, James W.) An algorithm for the machine calculation of complex Fourier series. *Math. Comp.* 19 (1965), 297-301. 31 #2843

Which part of the sample contains the information? *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 127-134. (I. J. Good) 30 #2606

(with Kurtz, T. E.; Link, R. F.; Wallace, D. L.) Correlation of ranges of correlated deviates. (With editorial note) *Biometrika* 53 (1966), 191-197. (P. A. P. Moran) 33 #8052

An introduction to the calculations of numerical spectrum analysis. *Spectral Analysis Time Series (Proc. Advanced Sem., Madison, Wis., 1966), pp.* 25-46. *John Wiley, New York,* 1967. (E. J. Hannan) 35 #3842

(with Dixon, W. J.) Approximate behavior of the distribution of Winsorized *t* (trimming/Winsorization 2). *Technometrics* 10 (1968), 83-98. (M. M. Siddiqui) 36 #4752

(See also Boneva, Liliana I.; Kendall, David; Stefanov, Ivan, 44 #6083)

Tulcea, Alexandra Ionescu. See Ionescu Tulcea, Alexandra.

Tul′čiĭ, V. I.

On a method of solving the two-dimensional problems of the theory of elasticity. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* 1964, 884-887. (Author's summary) 29 #3040

On a method of solving a plate-bending problem. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraīn. RSR* RSR 1965, 184-187. (Z. Kączkowski) 31 #946

Tulczyjew, B.

(with Tulczyjew, Włodzimierz) On multipole formalism in general relativity. *Recent developments in general relativity, pp.* 465-472. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2029

Tulczyjew, Włodzimierz

(with Tulczyjew, B.) On multipole formalism in general relativity. *Recent developments in general relativity, pp.* 465-472. *Pergamon, Oxford; PWN—Polish Scientific Publishers, Warsaw,* 1962. (F. A. E. Pirani) 29 #2029

An abstract formulation of quantum dynamics. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 329-333. (J. M. Jauch) 32 #5049

An abstract formulation of nonrelativistic quantum dynamics. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 335-340. (J. M. Jauch) 32 #5050

An abstract formulation of relativistic quantum dynamics. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 433-436. (P. G. Bergmann) 32 #8798

Five-dimensional unified theory of Kaluza. *Zeszyty Nauk. Uniw. Jagiello.* 104 *Prace Fiz. zeszyt* 3 (1965), 143-149. (H. Treder) 35 #4009

Tulegenov, B.

On the existence of quasi-periodic solutions of a non-linear first-order differential equation. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 72-76. (L. Pintér) 30 #3264

Tulegenov, M. U.

On the stability of solutions of differential equations in normed linear spaces. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 269-275. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (C. Corduneanu) 33 #6088

(with Emžarov, K.) An existence theorem for almost periodic solutions of a differential equation with a small parameter in a Banach space. (Russian. Kazakh summary) *Vestnik Akad. Nauk Kazah. SSR* 22 (1966), *no.* 10 (258), 42-44. (J. Albrycht) 34 #2990

(with Žilkibaeva, T. A.) On the question of stability of the solutions of differential equations in nonlinear spaces *L*. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 46-51. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (V. Lakshmikantham) 40 #510

Tulin, Marshall P.

Supercavitating flows—small perturbation theory. *J. Ship. Res.* 7 (1963/64), *no.* 3, 16-37. (From the author's summary) 29 #838

Supercavitating flows—small-perturbation theory. *Appl. Theory of Functions in Continum Mechanics (Proc. Internat. Sympos., Tbilisi, 1963), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 403-439. *Izdat. "Nauka", Moscow,* 1965. (D. G. Hurley) 32 #6788

Tuljaganova, M. I.

The Euler-Goldbach problem for an imaginary quadratic field. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1963, *no.* 1, 11-17. (B. Gordon) 31 #2229

(with Levin, B. V.) The sieve of A. Selberg in algebraic number fields. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 6 (1966), 59-73. (B. Gordon) 34 #7492; erratum, 44, p. 1630

Distribution of values of Euler's function defined on a normalized semigroup. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 5, 33-37. (W. Schwarz) 41 #3410

Asymptotic formulae for sums of multiplicative functions that are determined on a normed semigroup. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 4, 30-35. (A. I. Vinogradov) 44 #168

A certain extension of a theorem of Halasz. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 5, 35-40. (W. H. Simons) 44 #5286; erratum, 44, p. 1633

Tull, Jack P.

A theorem in asymptotic number theory. *J. Austral. Math. Soc.* 5 (1965), 196-206. (L. Carlitz) 31 #4770

Tuller, Annita

* A modern introduction to geometries. *D. Van Nostrand Co., Inc., Princeton, N.J.-Toronto, Ont.-London,* 1967. xiii + 201 *pp.* (T. G. Room) 34 #6607

Tulley, P. A.

On regularity in Hurewicz fiber spaces. *Trans. Amer. Math. Soc.* 116 (1965), 126-134. (H. Wada) 32 #6463 (with McAuley, L. F.) Fiber spaces and n-regularity. *Topology Seminar (Wisconsin, 1965), pp. 229-233. Ann. of Math. Studies, No. 60, Princeton Univ. Press, Princeton, N. J.,* 1966. (Edgar H. Brown, Jr.) 35 #7336

(with Seibert, Peter) On dynamical systems in the plane. *Arch. Math. (Basel)* 18 (1967), 290-292. (R. Ellis) 36 #873

(with McAuley, L. F.) Lifting cells for certain light open mappings. *Math. Ann.* 175 (1968), 114-120. (Edwin Duda) 36 #3324

On acyclic kernels and the barycentric homomorphism. *Colloq. Math.* 20 (1969), 99-108. (E. Fadell) 39 #4834

A strong homotopy equivalence and extensions for Hurewicz fibrations. *Duke Math. J.* 36 (1969), 609-619. (A. J. Sieradski) 40 #2084

Tully, Edward J., Jr.

Representation of a semigroup by row-monomial matrices over a group. *Proc. Japan Acad.* 40 (1964), 157-160. (P. F. Conrad) 29 #2317

On semigroups of transformations acting transitively on a set. *Canad. Math. Bull.* 9 (1966), 417-420. (P. F. Conrad) 34 #2747

A class of naturally partly ordered commutative archimedean semigroups with maximal condition. *Proc. Amer. Math. Soc.* 17 (1966), 1133-1139. (P. F. Conrad) 34 #2730

Semigroups in which each ideal is a retract. *J. Austral. Math. Soc.* 9 (1969), 239-245. (O. Steinfeld) 39 #1582

Tulovskiĭ, V. N.

Asymptotic distribution of the eigenvalues for differential operators with constant coefficients. *Dokl. Akad. Nauk SSSR* 195 (1970), 570-573. (Ja. A. Roĭtberg) 42 #8070

Tum, Po Nam. See Nam Tum Po.

Tumajer, František

Boundedness of abstract processes. (Czech. English summary) *Časopis. Pest. Mat.* 95 (1970), 196-211. (Š. Schwabik) 43 #644

Tumanjan, G. B.

Minimization of indecomposable Boolean functions by an approximate functional decomposition. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 525-528. (I. Cederbaum) 29 #1105

Structure minimization of relay devices with multiple outputs. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 3, 82-89. 32 #3962

Tumanjan, S. H.

The χ^2 test applied to the problem of two samples. (Russian) *Proc. All-Union Conf. Theory Prob. and Math. Statist. (Erevan, 1958) (Russian), pp. 121-138. Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1960. (J. R. Rosenblatt) 33 #6760

On a scheme in queueing theory. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp. 367-369. Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (D. J. Daley) 32 #1782

Tumanov, V. S.

The wave equation and magnetic moment of spin 2 particles. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1755-1760 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1182-1185. 31 #6571

Tumanyan, S. H. See Tumanjan, S. H.

Tumarkin, G. C.

(with Markuševič, A. I.; Havinson, S. Ja.) The current status and problems of the theory of boundary properties of analytic functions. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp. 661-667. Izdat. "Nauka", Leningrad,* 1964. (D. A. Brannan) 37 #1616

Conditions for the existence of an analytic majorant for a family of analytic functions. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 6, 3-25. (W. K. Hayman) 30 #3976

Conditions for the convergence of boundary values of analytic functions and approximation on rectifiable curves. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp. 283-295. Izdat. "Nauka", Moscow,* 1966. (J. Rausen) 34 #7808

Description of a class of functions admitting an approximation by fractions with preassigned poles. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 1 (1966), *no.* 2, 89-105. (G. G. Lorentz) 34 #6123

Approximation with respect to various metrics of functions defined on the circumference by sequences of rational fractions with fixed poles. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 721-766. (E. J. Akutowicz) 33 #7562

Necessary and sufficient conditions for the possibility of approximating a function on a circumference by rational fractions, expressed in terms directly connected with the distribution of poles of the approximating fractions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 969-980. (R. P. Boas, Jr.) 34 #2905

Conditions for the convergence of the boundary values of Cauchy type integrals. (Russian) *Mat. Zametki* 5 (1969), 441-448. (J. Rausen) 40 #5838

Effect of a deformation of the boundary on certain conformal properties of domains (membership of the domain in V. I. Smirnov's class S). (Russian) *Mat. Zametki* 8 (1970), 351-359. (J. Rausen) 43 #3434

Tumarkin, Ju. B.

(with Mil'man, V. D.) Properties of sequences in locally convex spaces. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 278-281. (M. Cotlar) 39 #6045

Locally convex spaces with basis. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 1278-1281. (A. J. Lazar) 42 #6575

Tumarkin, L. A.

Diameters of infinite-dimensional compact sets. (Russian. French summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 67-72. (Z. Frolík) 34 #6720

(with Tihomirov, V. M.) Transverses of compacta. (Russian) *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi, 1968), pp. 310-316. Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (Roman Duda) 43 #1118

Tumarkin, S. A.

* (with Nosova, L. N.) Tables of generalized Airy functions for the asymptotic solution of the differential equations $\varepsilon(py')' + (q + \varepsilon r)y = f$. Translated by D. E. Brown. *Pergamon Press, Oxford-New York-Paris,* 1965. xxxiv + 89 *pp.* (Editors) 32 #2621

Tumašev, G. G.

Determination of the pressure field in piecewise homogeneous layers. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1958, *no.* 3 (4), 203-216. (V. P. Pilatowskiĭ (RŽMat 1960 #8864)) 32 #5013

* (with Nužin, M. T.) Обратные краевые задачи и их приложения. (Russian) [Inverse boundary value problems and their applications] Second revised and supplemented edition. *Izdat. Kazan. Univ., Kazan,* 1965. 333 *pp. (1 foldout)* (J. H. Giese) 34 #8708

A certain problem on a jet stream of incompressible fluid. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 173-177. 44 #4977

(with Nužin, M. T.) Inverse boundary value problems and their applications in fluid mechanics. (Russian) *Proc. Second Kazakhstan Interuniv. Sci. Conf. Math. Mech.* (1965) *(Russian), pp. 10-14. Izdat. "Nauka", Kazah. SSR, Alma-Ata,* 1968. 43 #5784

Tumašev, Ju. S.

The application of the maximal likelihood method to the processing of random Gaussian processes. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 285-288. (Harry I. Cohn) 41 #7814

Tummers, J. H.

Théorèmes relatifs aux faisceaux de coniques. *Simon Stevin* 37 (1963/64), 132-138. (H. T. Croft) 30 #4181

Tumura, Yosiro

The distributions of latent roots and vectors. *TRU Math.* 1 (1965), 1-16. (1 *foldout*) (I. Olkin) 37 #2375

On the steady state probabilities concerned with tandem queue. *TRU Math.* 2 (1966), 1-11. (F. G. Foster) 37 #3667

Equilibrium equations method in the generalized queueing problems. *TRU Math.* 3 (1967), 48-61. (J. Kiefer and J. Wolfowitz) 36 #7224

(with Fukutomi, Kazuo) On the identification in factor analysis. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 15 (1968), *no.* 3, 6-11. (D. Papamicail) 41 #6361

On a queueing system $M/G/m(m)$ having the priority order among service stations. *TRU Math.* 4 (1968), 60-65. (J. F. C. Kingman) 42 #6966

Tunda, A. A.

On the theory of Fibonacci numbers. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 464 (1971), *čast'* 2, 173-177. (B. Diviš) 44 #5639

Tung, C.

(with Ting, L.) Motion and decay of a vortex in a nonuniform stream. *Phys. Fluids* 8 (1965), 1039-1051. (J. D. Murray) 32 #6797

Tung, F.

Linear control theory applied to interplanetary guidance. *IEEE Trans. Automatic Control* AC-9 (1964), 82-89. (Author's summary) 31 #5755

(with Breakwell, J. V.) Minimum effort control of several terminal components. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 295-316 (1965). (Y.-C. Ho) 31 #5746

(with Rauch, Herbert E.; Striebel, C. T.) Maximum likelihood estimates of linear dynamic systems. *AIAA J.* 3 (1965), 1445-1450. (Y.-C. Ho) 31 #5718

(with Striebel, C. T.) A stochastic optimal control problem and its applications. *J. Math. Anal. Appl.* 12 (1965), 350-359. (Y.-C. Ho) 32 #3913

Tung, Shih-hsiung

Boundedness of difference kernels of Bessel and Fourier series. *Math. Comp.* 20 (1966), 157-163. (Brij Mohan) 33 #1509

Harnack's inequalities on the classical Cartan domains. *Pacific J. Math.* 16 (1966), 373-378. (J. Mitchell) 32 #7789

Tung K'o-ch'eng

(with Yang Tsung-p'an) Two theorems on lattice-ordered rings. *Acta Math. Sinica* 15 (1965), 574-581 *(Chinese); translated as Chinese Math.— Acta* 7 (1965), 296-303. (I. G. Amemiya) 32 #7610

Tung Kuang-ch'ang

A boundary value problem for a degenerate elliptic equation. *Acta Math. Sinica* 11 (1961), 371-375 *(Chinese); translated as Chinese Math.—Acta* 2 (1962), 425-430. (M. Schiffer) 30 #366a (E)

A revision to "A boundary value problem for a degenerate elliptic equation". *Acta Math. Sinica* 13 (1963), 620-630 *(Chinese); translated as Chinese Math.—Acta* 4 (1964), 675-685. (M. Schiffer) 30 #366b

A boundary value problem for the degenerate elliptic partial differential equation. *Sci. Sinica* 13 (1964), 697-708. (Editors) 30 #1291

The Riemann-Hilbert problem for a multiply-connected region. *Acta Math. Sinica* 8 (1958), 290-304 *(Chinese); translated as Chinese Math.—Acta* 8 (1966), 896-903 (1967). (E. Meister) 37 #1629

Tung Ming-te

Exact linear theory for the flutter of a finite cylindrical shell in a supersonic stream. (Chinese. Russian summary) *Acta Mech. Sinica* 7 (1964), 261-307. (Y. C. Fung) 32 #1963

An exact linearized theory of supersonic flutter of a panel. I. Posing of the problem and the general solution. (Russian) *Sci. Sinica* 13 (1964), 391-412. (M. Holt) 34 #1017

Tung Yün-mei

(with Li K'ai-te) On the determination and solution of certain phrase structure grammars. (Chinese) *Shuxue Jinzhan* 8 (1965), 1-33. 34 #8902

Tuniev, A. D.

(with Ermol'ev, Ju. M.) Random Fejér and quasi-Fejér sequences. (Russian) *Theory of Optimal Solutions (Proc. Sem., Kiev,* 1968*), No.* 2 *(Russian), pp.* 76-83. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (N. L. Johnson) 39 #7685

Tunjak, V. N.

(with Levašev, A. E.) On defining the symmetry of a field in a semimetric space. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 5, 116-118. (W. M. Tulczyjew) 42 #1481

Tuomela, Raimo

(with Hintikka, Jaakko) Towards a general theory of auxiliary concepts and definability in first-order theories. *Information and Inference, pp.* 298-330. *Reidel, Dordrecht,* 1970. (From the authors' introduction) 43 #7280

Tupčiev, V. A.

On the splitting of an arbitrary discontinuity for a system of two first-order quasi-linear equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 817-825. (G. R. Morris) 33 #6149

The problem of decomposition of an arbitrary discontinuity for a system of quasi-linear equations without the convexity condition. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 527-547. (J. Kopáček) 34 #3056

(with Vasil'eva, A. B.) Periodic solutions of systems of differential equations with a small parameter at the derivatives, close to discontinuous ones. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 767-770. (G. Maess) 37 #1731

Tupper, B. O. J.

* (with Kilmister, C. W.) Eddington's statistical theory. *Clarendon Press, Oxford,* 1962. x + 115 *pp.* (A. H. Taub) 33 #7100

Turaev, A. T.

Certain methods of obtaining criteria for the existence and nonexistence of periodic solutions of a differential equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 129-133. (Marko Švec) 34 #426

Some criteria for the existence of limit cycles of a differential equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 5 (96), 92-95. 42 #7994

Turajlić, S. S.

(with Mitrinović, D. S.; Mitrinović, R. S.) A table of coefficients for numerical differentiation. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 115-122. (H. E. Fettis) 40 #8214

Turakainen, Paavo

On finite and probabilistic automata. (Finnish) *Arkhimedes* 1967, *no.* 2, 16-20. (G. Elfving) 38 #1963

On probabilistic automata and their generalizations. *Ann. Acad. Sci. Fenn. Ser. A I No.* 429 (1968), 53 *pp.* (D. Rosenblatt) 39 #2543

On stochastic languages. *Information and Control* 12 (1968), 304-313. (R. E. Stearns) 38 #4229

On languages representable in rational probabilistic automata. *Ann. Acad. Sci. Fenn. Ser. A I No.* 439 (1969), 10 *pp.* (D. Rosenblatt) 40 #7045

On time-variant probabilistic automata with monitors. *Ann. Univ. Turku. Ser. A I No.* 130 (1969), 11 *pp.* (A. Salomaa) 40 #8531

On non-regular events representable in probabilistic automata with one input letter. *Ann. Univ. Turku. Ser. A I No.* 90 (1966), 14 *pp.* (Editors) 40 #8530

Generalized automata and stochastic languages. *Proc. Amer. Math. Soc.* 21 (1969), 303-309. (A. Salomaa) 39 #3927

The family of stochastic languages is closed neither under catenation nor under homomorphism. *Ann. Univ. Turku. Ser. A I No.* 133 (1970), 6 *pp.* (H. D. Block) 41 #3192

Some closure properties of the family of stochastic languages. *Information and Control* 18 (1971), 253-256. (E. Ikaunieks) 43 #4584

Turakulov, K.

A proof of the maximum principle for a degenerate problem of optimal control. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 3, 25-30. (R. Conti) 38 #945

Turán, Pál

To the analytical theory of algebraic equations. *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 3 (1959), 123-137. (G. K. Èngelis (RŽMat 1960 #13043)) 37 #3074

Research problems. *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 6 (1961), 417-423. (Editors) 31 #2107

An extremal problem for sums of powers of complex numbers and an application thereof. (Hungarian. Russian and English summaries) *Mat. Lapok* 13 (1962), 279-288. (Author's summary) 34 #6033

Untersuchungen über Dirichlet-Polynome. *Bericht von der Dirichlet-Tagung, pp.* 71-80. *Akademie-Verlag, Berlin,* 1963. (Editors) 30 #4736

(with Makai, E.) Hermite expansion and distribution of zeros of polynomials. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 157-163. (M. J. O. Strutt) 29 #3694

Fiftieth birthday of Paul Erdős. (Hungarian) *Mat. Lapok* 14 (1963), 1-28. 33 #13

Diophantine approximation and applied mathematics. (Hungarian. English and Russian summaries) *Mat. Lapok* 14 (1963), 264-276. (Author's summary) 30 #1981

On a comparative theory of primes. *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 137-142. *Izdat. "Nauka", Leningrad,* 1964. (B. Gordon) 37 #5169

(with Knapowski, S.) Further developments in the comparative prime-number theory. I. *Acta Arith.* 9 (1964), 23-40. (H. W. Brinkmann) 29 #75

(with Knapowski, S.) Further developments in the comparative prime-number theory. II. A modification of Chebyshev's assertion. *Acta Arith.* 10 (1964), 293-313. (A. E. Ingham) 30 #4739

On the twin-prime problem. I. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 247-261 (1965). (S. Ikehara) 33 #2612

(with Szüsz, P.) On the constructive theory of functions. I. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 495-502 (1965). (G. Sunouchi) 32 #4439

(with Dancs, S.) On the distribution of values of a class of entire functions. I. *Publ. Math. Debrecen* 11 (1964), 257-265. (S. M. Shah) 30 #3217

(with Dancs, S.) On the distribution of values of a class of entire functions. II. *Publ. Math. Debrecen* 11 (1964), 266-272. (S. M. Shah) 30 #3218

(with Knapowski, S.) Further developments in the comparative prime-number theory. III. *Acta Arith.* 11 (1965), 115-127. (H. W. Brinkmann) 31 #4773

(with Knapowski, S.) Further developments in the comparative prime-number theory. IV, V. *Acta Arith.* 11 (1965), 147-161; *ibid.* 11 (1965), 193-202. (H. W. Brinkmann) 32 #99

(with Balázs, J.) Notes on interpolation. IX (Approximate representation of Fourier-transform). *Acta Math. Acad. Sci. Hungar.* 16 (1965), 215-220. (Gabor Szegö) 30 #5098

On a characterization of Dirichlet's *L*-functions. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 8 (1965), 65-69. (H.-E. Richert) 34 #1285

(with Knapowski, S.) On an assertion of Čebyšev. *J. Analyse Math.* 14 (1965), 267-274. (A. E. Ingham) 31 #2221

A remark on the heat-equation. *J. Analyse Math.* 14 (1965), 443-448. (R. V. Churchill) 31 #1476

On some conjectures in the theory of numbers. *Proc. London Math. Soc.* (3) 14a (1965), 288-299. (A. E. Ingham) 31 #2225

(with Erdős, P.) On some problems of a statistical group-theory. I. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 175-186 (1965). (J. Riordan) 32 #2465

(with Knapowski, S.) Further developments in the comparative prime-number theory. VI. Accumulation theorems for residue-classes representing quadratic residues mod *k*. *Acta Arith.* 12 (1966/67), 85-96. (H. W. Brinkmann) 34 #149

On the approximation of piecewise analytic functions by rational functions. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 296-300. *Izdat. "Nauka", Moscow,* 1966. (T. J. Rivlin) 35 #2037

Certain function-theoretic sieve methods in the theory of numbers. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1289-1292. (W. Schwarz) 34 #5781

(with Szüsz, Péter) A new direction in the constructive theory of functions. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 33-45. (P. Erdős) 34 #6409

On some problems in comparative prime number theory. (Hungarian) *Mat. Lapok* 17 (1966), 19-32. (P. Erdős) 36 #2572

On some problems in the theory of the mechanical quadrature. *Matematica (Cluj)* 8(31) (1966), 181-192. (R. E. Barnhill) 35 #5139

(with Szüsz, P.) On the constructive theory of functions. II. *Studia Sci. Math. Hungar.* 1 (1966), 65-69. (G. Sunouchi) 34 #6410

(with Szüsz, P.) On the constructive theory of functions. III. *Studia Sci. Math. Hungar.* 1 (1966), 315-322. (G. Sunouchi) 34 #6411

On the twin-prime problem. II. *Acta Arith.* 13 (1967/68), 61-89. (S. Ikehara) 36 #3740

On the twin-prime problem. III. *Acta Arith.* 14 (1967/68), 399-407. (S. Ikehara) 38 #127

(with Erdős, P.) On some problems of a statistical group-theory. II. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 151-163. (L. A. Shepp) 34 #7624

Remarks on the preceding paper of J. Clunie entitled "On equivalent power series". *Acta Math. Acad. Sci. Hungar.* 18 (1967), 171-173. (L. Alpár) 35 #1762

(with Erdős, P.) On some problems of a statistical group-theory. III. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 309-320. (J. Riordan) 35 #6743

(with Erdős, Pál) Certain problems of statistical group theory. (Hungarian. English summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 17 (1967), 51-57. (L. G. Kovács) 35 #6744

(See also Contests in higher mathematics (Hungary 1949-1961), 39 #1252; Abhandlungen aus Zahlentheorie und Analysis, 41 #3200a; Number theory and analysis, 41 #3200b; and Number theory, 42 #4470)

(with Erdős, P.) On some problems of a statistical group-theory. IV. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 413-435. (J. Riordan) 38 #1156

On an inequality of Čebyšev. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 11 (1968), 15-16. (H. Burkill) 39 #4342

Approximate solution of algebraic equations. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 18 (1968), 223-235. (J. Szabados) 39 #2322

On a problem concerning the zeros of Dirichlet's *L*-functions. *Publ. Ramanujan Inst. No.* 1 (1968/69), 95-100. (T. M. Apostol) 42 #1778

(with Knapowski, S.) Über einige Fragen der vergleichenden Primzahltheorie. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 157-171. *Plenum, New York,* 1969. (R. A. Rankin) 42 #7610

A remark on linear differential equations. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 357-360. (D. Hinton) 40 #2947

On a certain limitation of eigenvalues of matrices. *Aequationes Math.* 2 (1969), 184-189. (J. W. S. Cassels) 39 #5606

(with Dénes, J.; Erdős, P.) On some statistical properties of the alternating group of degree *n*. *Enseignement Math.* (2) 15 (1969), 89-99. (J. Riordan) 40 #214

(with Halász, G.) On the distribution of roots of Riemann zeta and allied functions. I. *J. Number Theory* 1 (1969), 121-137. (T. M. Apostol) 38 #4422

The life and works of Catherine Rényi. (Hungarian) *Mat. Lapok* 20 (1969), 219-226. (Editors) 42 #2923

Remarks on orthogonal polynomials. (Hungarian. English summary) *Mat. Lapok* 20 (1969), 305-309. (Author's summary) 42 #3328

Applications of graph theory to geometry and potential theory. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta.,* 1969*), pp.* 423-434. *Gordon and Breach, New York,* 1970. (From the author's introduction) 42 #7551

Zeta roots and prime numbers. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen,* 1968*), pp.* 205-216. *North-Holland, Amsterdam,* 1970. (R. Spira) 42 #5925

Analysis and diophantine approximation. *Symposia Mathematica, Vol. IV (INDAM, Rome,* 1968/69*), pp.* 133-153. *Academic Press, London,* 1970. (W. W. Adams) 43 #158

(with Halász, G.) On the distribution of roots of Riemann zeta and allied functions. II. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 403-419. (T. M. Apostol) 42 #3035

(with Erdős, P.; Méir, A.; Sós, Vera T.) On some applications of graph theory. II. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 89-99. *Academic Press, London,* 1971. (G. O. H. Katona) 44 #3887

(with Erdős, P.) On some general problems in the theory of partitions. I. *Acta Arith.* 18 (1971), 53-62. (J. Lehner) 44 #6636

(with Erdős, P.) On some problems of a statistical group theory. V. *Period. Math. Hungar.* 1 (1971), *no.* 1, 5-13. (J. H. B. Kemperman) 44 #6638

Turbabin, A. S.

(with Borisovič, Ju. G.) On the Cauchy problem for linear inhomogeneous differential equations with retarded argument. *Dokl. Akad. Nauk SSSR* 185 (1969), 741-744. (O. Gürel) 40 #493

Turbat, Christiane. See Rigolot-Turbat, Christiane.

Turbīn, A. F.

(with Koroljuk, V. S.) The asymptotic behavior of the sojou time of a semi-Markov process in a reducible subset of states. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 2 (1970), 133-143. (B. Kronfeld) 44 #1125

The asymptotic behavior of the sojourn time of a semi-Markov process in a reducible subset of the states. Linear case. (Russian. English summary) *Teor. Verojatnost. i Mat. Statist. Vyp.* 4 (1971), 179-194. (B. Kronfeld) 44 #6059

(with Plotkin, Ja. D.) Inversion of linear operators that are perturbed on the spectrum. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 168-176. (B. V. Loginov) 43 #6748

Turčin, V. F.

The solution of Fredholm's equation of the first kind in the statistical ensemble of smooth functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1270-1284. (Petr Mandl) 36 #4849

The choice of an ensemble of smooth functions in the solutio of the inverse problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 230-238. (E. H. Bareiss) 37 #3665

Turčin, V. M.

(with Drozd, Ju. A.) The number of modules of representatio in genus for integral matrix rings of the second order. (Russian) *Mat. Zametki* 2 (1967), 133-138. (J. Kubilius) 37 #5253

Turcu, Aurel

Almost periodic solutions of the equation of Duffing in the case of non-resonance. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 9 (1964), *no.* 2, 61-76. (Author's summary) #31 #433

Almost periodic solutions of the equation of Duffing in the case of resonance. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 1, 83-9 (Author's summary) 32 #2685

On the subharmonic oscillations of the Duffing equation. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 2, 67-74. (Author's summary) 33 #916

Turczi, Gy.

Certain invariant functions of the calculus of variations. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 115-120. (D. F. Lawden) 34 #4965

Turdiev, T.

On the limiting solution of a linear differential equation with retarded argument. (Russian) *Integration Certain Differentia Equations Math. Phys. (Russian), pp.* 236-252. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. (Ju. Rjabov (RŽMat 1965 #7 B223)) 36 #5473

Two-sided solutions of a linear homogeneous differential equation of first order with retarded argument. (Russian) *Taškent. Gos. Ped. Inst. Učen. Zap.* 61 (1966), 43-46. (Marko Švec) 35 #1897

On a new solution of the equation $y'(x) = \lambda y(x-P)$. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 79-84. (A. D. Ziebur) 35 #1887

Analytic solutions of certain classes of linear differential equations with retarded argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 85-95. (J. K. Hale) 36 #6741

Solution of certain types of differential equations with retardation. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 197-204. (K. L. Cooke) 35 #3191

(with Medžitov, M.; Norkin, S. B.) A homogeneous initial value problem for linear differential and integro-differential equations with retarded argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 6 (1968), 67-77. (L. Losonczi) 38 #4786

Turdza, Erwin

On the stability of the functional equation of the first order. *Ann. Polon. Math.* 24 (1970/71), 35-38. (A. Smajdor) 42 #4914

On the stability of the functional equation $\phi[f(x)] = g(x)\phi(x) + F(x)$. *Proc. Amer. Math. Soc.* 30 (1971), 484-486. (O. Em. Gheorghiu) 44 #7175

Tureckiĭ, A. H.

Summation methods of Fourier series of which the saturation classes are trigonometric polynomials. (Russian) *Dokl. Akad. Nauk BSSR* 3 (1959), 136-142. (F. I. Haršiladze (RŽMat 1960 #5122)) 41 #2298

On certain extremal problems in the theory of interpolation. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962*) (Russian), pp.* 220-232. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (R. R. Goldberg) 33 #4560

On a class of functions for which the given method of summation provides an approximation of the order of the best one. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 5 (48), 132-139. (M. Tomić) 33 #4561

A remark on the inverse problem in the theory of approximation in the *L*-metric. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1965, *no.* 2, 5-8. (L. de Branges) 32 #4435

(with Aksen', M. B.) On best quadrature formulae for certain classes of functions. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1019-1021. (A. H. Stroud) 33 #3458

A class of functions for which a given summation method yields the best order approximation. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 159-165. (M. Tomić) 33 #7764

(with Aksen', M. B.) The best quadrature formulae for certain classes of functions. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 1, 15-27. (Walter Gautschi) 34 #5281

Finite-differences analogs of a problem of Ahiezer-Kreĭn and Favard. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 3, 10-22. (G. Goes) 34 #3190

(with Toropova, G. N.) An estimate for approximation of functions satisfying a Lipschitz condition by the Fejér-Hermite interpolation formula. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 1, 76-92. (Bl. Sendov) 35 #640

(with Korzun, I. I.) Some identities. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 3, 20-30. (Bl. Sendov) 36 #1889

* Теория интерполирования в задачах. (Russian) [Theory of interpolation in problem form] *Izdat. "Vyšèĭšaja Škola", Minsk,* 1968. 318 *pp.* (C. de Boor) 41 #5840

(with Korzun, I. I.) An estimate of the approximation by Lagrange interpolating polynomials with Čebyšev nodes for a class of functions having a derivative of prescribed order that is bounded in the mean. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 2, 5-24. (H. E. Warren) 38 #459

A certain method for approximating periodic functions by trigonometric polynomials. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 3, 5-11. (V. M. Kokilašvili) 38 #3681

A class of functions for which a given summation method yields the best order approximation. III. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 80-87. (M. Tomić) 40 #6143

Interpolation for a large number of given values of a function. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 6, 50-61. (G. G. Lorentz) 44 #5660

A remark on the summability of Fourier series. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1971, *no.* 2, 115-121. (S. Aljančić) 44 #7218

Turetskii, A. K. See Tureckiĭ, A. H.

Turetsky, A. Kh. See Tureckiĭ, A. H.

Turetzky, A. H. See Tureckii, A. H.

Turgeon, J.

On the rank numbers of an arc. *Canad. J. Math.* 22 (1970), 789-802. (M. Kucharzewski) 42 #982

Turin, George L.

Signal design for sequential detection systems with feedback. *IEEE Trans. Information Theory* IT-11 (1965), 401-408. 32 #3945

Comparison of sequential and nonsequential detection systems with uncertainty feedback. *IEEE Trans. Information Theory* IT-12 (1966), 5-8. (Author's summary) 40 #3989

The effect of weak fading on the output spectrum of an FM system. *IEEE Trans. Information Theory* IT-14 (1968), 265-268. (Author's summary) 40 #3997

More on uncertainty feedback: The bandlimited case. *IEEE Trans. Information Theory* IT-14 (1968), 321-324. (Editors) 40 #3995

Turin, V. Ja.

Non-stability in the critical case for solutions of a system of differential equations with discontinuous right hand sides. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1312-1320. (G. R. Sell) 33 #2895

The stability under a linear approximation of the solutions for differential equations with discontinuous right-hand terms. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 1, 34-37. (R. F. Datko) 31 #444

Stability of solutions of a system of differential equations with discontinuous right-hand sides in the critical case. *Prikl. Mat. Meh.* 29 (1965), 931-938 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 1097-1105 (1966). (A. M. Krall) 37 #3132

Turing, Alan M.

(See Machine intelligence, 41 #2974)

Turinsky, Paul J.

The super-variational technique revisited. *J. Math. Anal. Appl.* 33 (1971), 605-615. (D. B. Hunter) 43 #1407

Turkovskiĭ, V. A.

Certain extremal properties of regular functions, bounded in the disc $|z| < 1$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 166-170. (G. Biriuk) 33 #1447

Turnbull, C.

(with Manohar, R.) On a modification of Romberg quadrature. *Canad. Math. Bull.* 11 (1968), 217-224. (A. Sharma) 37 #7086

Turnbull, Herbert Westren

(See Ledermann, W., 31 #1170 and Scott, J. F., 41 #1473)

Turner, Edward C.

Diffeomorphisms of a product of spheres. *Invent. Math.* 8 (1969), 69-82. (Edgar H. Brown, Jr.) 40 #3562

Turner, J. W.

(with Balescu, R.; Clavin, P.; Mandel, P.) On a relation between exact and asymptotic time evolution operators. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 1055-1066. (E. J. Verboven) 42 #7189

Turner, James

(with Yoeli, Michael) Decompositions of group functions with applications to two-rail cascades. *Information and Control* 10 (1967), 565-571. (P. L. Hammer) 36 #7441

Point-symmetric graphs with a prime number of points. *J. Combinatorial Theory* 3 (1967), 136-145. (J. W. Moon) 35 #2783

A graph-theoretical model for periodic discrete structures. *J. Franklin Inst.* 285 (1968), 52-58. (Author's summary) 36 #3605

Generalized matrix functions and the graph isomorphism problem. *SIAM J. Appl. Math.* 16 (1968), 520-526. (F. Harary) 37 #3951

A graph-theoretical model for periodic discrete structures. *Proof Techniques in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich.,* 1968*), pp.* 155-160. *Academic Press, New York,* 1969. (W. Imrich) 41 #102

Key-word indexed bibliography of graph theory. *Proof Techniques in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich.,* 1968*), pp.* 189-330. *Academic Press, New York,* 1969. (Editors) 41 #3318

(with Kautz, William H.) A survey of progress in graph theory in the Soviet Union. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 385-390. (F. Harary) 42 #2972

(with Elspas, Bernard) Graphs with circulant adjacency matrices. *J. Combinatorial Theory* 9 (1970), 297-307. (Authors' summary) 42 #7540

(with Kautz, William H.) A survey of progress in graph theory in the Soviet Union. *SIAM Rev.* 12 (1970), *suppl.*, iv + 68 *pp.* (F. Harary) 42 #2973

Turner, Robert E. L.

Perturbation of compact spectral operators. *Comm. Pure Appl. Math.* 18 (1965), 519-541. (J. T. Schwartz) 31 #2623

Perturbation of ordinary differential operators. *J. Math. Anal. Appl.* 13 (1966), 447-457. (R. R. D. Kemp) 33 #3139

Some variational principles for a nonlinear eigenvalue problem. *J. Math. Anal. Appl.* 17 (1967), 151-160. (H. F. Weinberger) 35 #788

An extremal problem. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 437-440. (J. B. McLeod) 38 #2675

A class of nonlinear eigenvalue problems. *J. Functional Analysis* 2 (1968), 297-322. (D. E. Edmunds) 38 #1546

Eigenfunction expansions in Banach spaces. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 193-211. (F. H. Brownell) 39 #2024

Perturbation with two parameters. *Linear Algebra and Appl.* 2 (1969), 1-11. (S. R. Caradus) 39 #6898

A note on eigenvalues of normal transformations. *Proc. Amer. Math. Soc.* 20 (1969), 30-34. (J. A. R. Holbrook) 39 #2000

A problem in Rayleigh-Taylor instability. *Rend. Sem. Mat. Univ. Padova* 42 (1969), 305-323. (W. Velte) 41 #5800

Nonlinear eigenvalue problems with nonlocal operators. *Comm. Pure Appl. Math.* 23 (1970), 963-972. (H. Amann) 42 #8214

Nonlinear Sturm-Liouville problems. *J. Differential Equations* 10 (1971), 141-146. (P. Waltman) 44 #522

(with Schneider, H.) Positive eigenvectors of order-preserving maps. *J. Math. Anal. Appl.* 37 (1972), 506-515. (H. E. Lacey) 44 #5754

Turner, W. C.

(with Ghare, P. M.; Montgomery, D. C.) Optimal interdiction policy for a flow network. *Naval Res. Logist. Quart.* 18 (1971), 37-45. (I. T. Frisch) 44 #3673

Turner, W. W.

(with Leitner, A.) A method of generating integral representations. *Arch. Math. (Basel)* 17 (1966), 551-560. (L. Debnath) 34 #6340

Turner Bharucha-Reid, Albert. See Bharucha-Reid, Albert Turner.

Turner-Smith, R. F.

Marginal subgroup properties for outer commutator words. *Proc. London Math. Soc.* (3) 14 (1964), 321-341. (M. Rosenlicht) 29 #2289

Finiteness conditions for verbal subgroups. *J. London Math. Soc.* 41 (1966), 166-176. (T. R. Berger) 35 #4290

Turnidge, Darrell R.

Torsion theories and semihereditary rings. *Proc. Amer. Math. Soc.* 24 (1970), 137-143. (G. Michler) 41 #262

(with Miller, Robert W.) Morita duality for endomorphism rings. *Proc. Amer. Math. Soc.* 31 (1972), 91-94. (B. L. Osofsky) 44 #4054

Turnovec, František

A modification of the decomposition algorithm for solving linear programming problems with upper bounded variables. (Czech. English summary) *Ekonom.-Mat. Obzor* 4 (1968), 351-358. (From the author's summary) 38 #4143

Necessary and sufficient conditions for equilibrium points of noncooperative convex games. (Czech. English summary) *Ekonom.-Mat. Obzor* 5 (1969), 343-353. (From the author's summary) 39 #7948

* (with Chobot, Michal) Teória hier. (Slovak) [The theory of games] *Slovenské Pedagogické Nakladatel'stvo, Bratislava,* 1967. 182 *pp.* (M. Maňas) 41 #3120

The double description method for basic solutions with orthogonality property. (Czech summary) *Ekonom.-Mat. Obzor* 7 (1971), 31-47. (L. W. Ehrlich) 43 #7045

Türnpu, H.

Summability factors for the Riesz methods. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 206 (1967), 90-105. (Hubert Tietz) 41 #7335

(with Abel, M.) ψ-convergence factors. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 206 (1967), 106-121. (Hubert Tietz) 41 #7336

A certain class of integral transforms. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 220 (1968), 104-121. (C. Tanaka) 40 #7891

The absolute summability of biorthonormal expansions. (Russian. Estonian and German summaries) *Tartu Riikl. Ül. Toimetised Vih.* 220 (1968), 154-165. (H.-H. Körle) 42 #2250

Turovec', S. P.

Best approximation in the mean for functions satisfying a Lipschitz condition. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 725-729. (Author's summary) 33 #3018

Best approximation in the mean of differentiable functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 417-422. (J. Albrycht) 37 #4477

Turovskiĭ, O. M.

A case of the inverse mixed boundary value problem. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 292-295. (A. Haimovici) 33 #4291

Turowicz, Andrzej

Sur les trajectoires et quasitrajectoires des systèmes de commande nonlinéaires. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 10 (1962), 529-531. (H. A. Antosiewicz) 32 #2227

(with Pliś, A.) On chords of convex bodies. *Colloq. Math.* 12 (1964), 87-89. (G. C. Shephard) 29 #5161

Sur les solutions des équations différentielles au sens de E. E. Wiktorowski. *Ann. Polon. Math.* 16 (1965), 377-380. (C. A. Swanson) 30 #4014

* Geometria zer wielomianów. (Polish) [Geometry of zeros of polynomials] *Państwowe Wydawnictwo Naukowe, Warsaw,* 1967. 155 *pp.* (T. T. Tonkov) 37 #5372

Une méthode de démonstration de la loi de distribution de Gauss. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 697-701. (V. Mzlyšev (RŽMat 1968 #8 V29)) 39 #4915

(with Górecki, H.) Optimal control. (Polish) *Wiadom. Mat.* (2), 12, 115-149 (1969). (Editors) 39 #7985

Turpanova, V. M.

Some theorems on Dirichlet series. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 8 (1968), 343-349. (G. Halász) 39 #4366

Singular points and convergence of Dirichlet series with complex exponents. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 8 (1968), 827-843. (J. G. Kryzyż) 41 #1979

Turpin, Philippe

Sur une classe d'algèbres topologiques. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A436-A439. (W. Żelazko) 34 #6566

(with Waelbroeck, Lucien) Sur l'approximation des fonctions différentiables à valeurs dans les espaces vectoriels topologiques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A94-A97. (G. Marinescu) 38 #2597

(with Waelbroeck, Lucien) Intégration et fonctions holomorphes dans les espaces localement pseudo-convexes. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A160-A162. (G. Marinescu) 38 #2598

(with Waelbroeck, Lucien) Algèbres localement pseudo-convexes à inverse continu. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A194-A195. (G. Marinescu) 39 #4677

Une remarque sur les algèbres à inverse continu. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1686-A1689. (E. J. Barbeau) 42 #3571

Turquette, Atwell R.

Independent axioms for infinite-valued logic. *J. Symbolic Logic* 28 (1963), 217-221. (C.-C. Chang) 31 #3327

(with Fisch, Max) Peirce's triadic logic. *Trans. Charles S. Peirce Soc.* 2 (1966), 71-85. (J. Tucker) 35 #29

A method for constructing implication logics. *Z. Math. Logi Grundlagen Math.* 12 (1966), 267-278. (R. F. Wheeler) 35 #1453

Peirce's phi and psi operators for triadic logic. *Trans. Charles S. Peirce Soc.* 3 (1967), 66-73. (From the author's introduction) 39 #2619

Dualizable quasi-strokes for *M*-state automata. *Information Sci.* 1 (1968/69), 131-142. (Author's summary) 42 #46

Generalizable Kleene logics. *Proc. Amer. Math. Soc.* 20 (196 361-367. (A. Rose) 39 #1306

Turri, Nedda Meregaglia

Alcune osservazioni sui singrammi commutati. *Boll. Un. Mat. Ital.* (3) 20 (1965), 181-184. (O. Ore) 34 #4165

Questioni di realità sulle corrispondenze algebriche reali simmetriche tra enti razionali semplicemente infinite. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 101 (1967), 465-472. (A. Evyatar) 37 #5214

Turri, Tullio

Sulle superficie iperellittiche del tipo quinto secondo scor *Rend. Sem. Fac. Sci. Univ. Cagliari* 30 (1960), 18-34. (P. Du Val 31 #3917

Sulle curve canoniche trasformate in sè da un'omografia ciclica. *Rend. Sem. Fac. Sci. Univ. Cagliari* 32 (1962), 213-218. (P. Du Val) 30 #1441

Ancora sulle trasformazioni antibirazionali involutorie. *Rend. Sem. Fac. Sci. Univ. Cagliari* 33 (1963), 33-38. (P. Du Val) 30 #1443

Superficie di S_p trasformate in sé da un'omografia ciclica di ordine *p*-1, nel caso *p*-1 primo. *Rend. Sem. Fac. Sci. Univ. Cagliari* 33 (1963), 48-50. (P. Du Val) 30 #1444

Rettifica alla Nota "Sulle curve canoniche trasformate in sè da un'omografia ciclica". *Rend. Sem. Fac. Sci. Univ. Cagliari* 33 (1963), 124. (P. Du Val) 30 #1442

Sulla continuità delle trasformazioni della retta complessa conservanti i gruppi armonici. *Rend. Sem. Fac. Sci. Univ. Cagliar* 33 (1963), 229-231. (P. Du Val) 30 #1445

Superficie algebriche normali irreducibili invarianti in un'omografia ciclica. *Rend. Sem. Fac. Sci. Univ. Cagliari* 33 (196 445-454. (B. Segre) 29 #6383

Sopra un sistema a due dimensioni di superficie di ordine quattro ciascuna trasformata in sé involutoriamente. (English summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 34 (1964), 253-255. (P. Du Val) 31 #1604

Turrittin, Hugh L.

Solvable related equations pertaining to turning point proble *Asymptotic Solutions of Differential Equations and Their Applications (Proc. Sympos., Math. Res. Center, U.S. Army, Univ. Wisconsi Madison, Wis., 1964), pp.* 27-52. *Wiley, New York,* 1964. (F. M. Stein) 33 #377

(with Harris, W. A., Jr.) Reciprocals of inverse factorial series. *Funkcial. Ekvac.* 6 (1964), 37-46. (T. Fort) 29 #6217

Stokes multipliers for the differential equation $d^n y/dx^n - y/x = 0$. *Funkcial. Ekvac.* 9 (1966), 261-272. (W. Strodt) 36 #1762

Convergent solutions of ordinary linear nonhomogeneous differential equations. *Funkcial. Ekvac.* 12 (1969), 7-21. (D. A. Lutz) 40 #5956

Turski, A. J.

Transient and oscillating solution of Boltzmann-Vlasov equation in linearized plasma. *Ann. Physics* 35 (1965), 240-249. (Edward Frieman) 32 #8935

Turski, Władysław

Some results of research on automatic programming in eastern Europe. *Advances in Computers, Vol.* 5, *pp.* 23-108. *Academic Press, New York,* 1964. (B. A. Galler) See 31 #904

Tursman, Richard

The shortest axioms of the implicational calculus. *Notre Dame J. Formal Logic* 9 (1968), 351-358. (From the author's summar 39 #3964

Tursunkulov, M.

The investigation of a nonlinear Hilbert problem with shift. (Russian) *Problems of Integration of Differential Equations (Russian), pp.* 232-248. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1966. (L. von Wolfersdorf) 35 #6845

The solution of a class of linear loaded singular integral equations. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1966, *no.* 3, 31-40. (T. G. Gegelia) 36 #629

Tursunov, M.

A higher-dimensional boundary value problem. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 5, 3-6. (R. Guenther) 38 #6236

Uniqueness of the solutions of boundary value problems for a certain differential equation with a singular coefficient. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 5, 3-6. (C. V. Coffman) 44 #4361

urteltaub, M. J.

(with Sternberg, Eli) Elastostatic uniqueness in the half-space. *Arch. Rational Mech. Anal.* 24 (1967), 233-242. (M. E. Gurtin) 34 #7092

(with Sternberg, Eli) On concentrated loads and Green's functions in elastostatics. *Arch. Rational Mech. Anal.* 29 (1968), 193-240. (J. Ignaczak) 37 #2490

urtoi, Adriana

(with Popovici, Iulian) Propriétés métriques des formes réelles de Jordan de type A_{II}. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 303-314. (T. Okubo) 42 #998

(with Popovici, Iulian) Sur les connexions spinorielles. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1499-1505. (J. D. Zund) 43 #5436

Espaces de Wagner et formes réelles de Jordan de type D. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 111-119. (O. Kowalski) 44 #965

Turyn, Richard J.

The multiplier theorem for difference sets. *Canad. J. Math.* 16 (1964), 386-388. (Morris Newman) 29 #1154

The linear generation of the Legendre sequence. *J. Soc. Indust. Appl. Math.* 12 (1964), 115-116. (D. H. Lehmer) 29 #60

The nonexistence of seven difference sets. *Illinois J. Math.* 9 (1965), 590-594. (H. B. Mann) 31 #5807

Character sums and difference sets. *Pacific J. Math.* 15 (1965), 319-346. (H. J. Ryser) 31 #3349

Sequences with small correlation. *Error Correcting Codes (Proc. Sympos. Math. Res. Center, Madison, Wis., 1968), pp.* 195-228. *John Wiley, New York,* 1968. (G. Solomon) 39 #3897

Complex Hadamard matrices. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 435-437. *Gordon and Breach, New York,* 1970. (J. J. Seidel) 42 #5821

On C-matrices of arbitrary powers. *Canad. J. Math.* 23 (1971), 531-535. (N. J. Pullman) 44 #6522

Tu Shih-jan

(See Discourses on the history of mathematics of the Sung and Yüan period, 34 #2403)

al Tûsî, Nâsir al-Dîn. See Naṣīr ad-Dīn aṭ-Ṭūsī.

uškina, T. A.

A numerical experiment on the calculation of the Hasse invariant for certain curves. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1203-1204. (W. J. LeVeque) 33 #108

(with Šahbazjan, K. V.) The basic concepts of parallel ordering. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 6-15. (V. Spiridonov) 44 #2656

(with Šahbazjan, K. V.) Solution of certain problems of parallel ordering. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 16-26. (V. Spiridonov) 44 #2657

Tusnády, Gábor

On rearrangements of infinite series. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 121-126. (T. Pati) 37 #636

(with Katona, G.) The principle of conservation of entropy in a noiseless channel. *Studia Sci. Math. Hungar.* 2 (1967), 29-35. (L. L. Campbell) 35 #2687

On the sequence of generalized partial sums of a series. *Studia Sci. Math. Hungar.* 2 (1967), 431-434. (E. Hille) 36 #4202

On the OC-function of the acceptance plan designed for a Pólya process of defective items. *Studies in Mathematical Statistics: Theory and Applications, pp.* 193-199. *Akad. Kiadó, Budapest,* 1968. (A. C. Cohen) 38 #843

(with Csiszár, I.; Katona, G.) Information sources with different cost sclaes and the principle of conservation of entropy. *Proc. Colloquium on Information Theory (Debrecen, 1967), Vol. I, pp.* 101-128. *János Bolyai Math. Soc., Budapest,* 1968. (E. A. Robinson) 40 #4000

Remark on K. Sarkadi's paper entitled: "Estimation after selection". *Studia Sci. Math. Hungar.* 3 (1968), 381-382. (A. C. Cohen) 38 #6702

(with Csiszár, I.; Katona, G.) Information sources with different cost sclaes and the principle of conservation of entropy. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 185-222. (E. C. Posner) 40 #8496

Tusupov, M. T.

(with Eržanov, Ž. S.) The second fundamental problem for an elastic sheet with a doubly periodic system of equal holes. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 3, 3-7. (M. Mişicu) 35 #7629

Existence of a solution of the second fundamental doubly periodic problem of elasticity theory. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 5, 40-44. (M. Mişicu) 36 #2350

(with Eržanov, Ž. S.) On the solution of doubly periodic problems of the theory of elasticity. (Russian) *Concentration of Stresses, No. 2 (Russian), pp.* 59-66. *Naukova Dumka, Kiev,* 1968. (Editors) 39 #5091

Tutaev, L. K.

* Lines and surfaces in three-dimensional affine space. Translated and edited by IPST Staff. *Israel Program for Scientific Translations, Jerusalem; Daniel Davey & Co., Inc., New York,* 1964. ix + 92 *pp.* (D. J. Struik) 31 #5157

On the differential geometry of curves and surfaces in a Minkowski space. (Russian) *Proc. First Republican Conf. Math. Byelorussia (Russian), pp.* 290-307. *Izdat. "Vysšaja Škola", Minsk,* 1965. (M. Decuyper) 38 #6511

(with Burdun, A. A.) On the theory of curves in Minkowski space with a center. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 4, 47-56. (M. C. Chaki) 35 #947

(with Platonova, V. I.) On the differential geometry of the composite manifold M_{22} in three-dimensional affine space. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 2, (Z. Nádeník) 41 #9117a

Tutaj, Edward

A generalization of the second theorem of O. Hanner. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 109-112.
} (H. Noguchi) 40 #1971

Tutsch, J. H.

The classical atom revisited. *Amer. J. Phys.* 38 (1970), 651-655. (T. Sasakawa) 43 #4378

Tutschke, Wolfgang

Eine Verallgemeinerung der Betragsfunktion im Zusammenhang mit einer Klasse von Differentialoperatoren auf Riemannschen Flächen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 309 (1962), 16 *pp.* (M. Ohtsuka) 31 #5974

Über periodische Lösungen nicht notwendig selbstadjungierter elliptischer Differentialgleichungssysteme in mehrfach-zusammenhängenden Gebieten. *Math. Nachr.* 26 (1963/64), 247-286. (M. Coroi-Nedelcu) 29 #4974

Eine hinreichende Bedingung für die Existenz positiver Lösungen von linearen Gleichungssystemen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 5 (1963), 663-667. (M. Pinl) 29 #3487

Parameterabhängige Pfaffsche Formen in mehrfach-zusammenhängenden ebenen Gebieten im Zusammenhang mit globalen Normalformen partieller Differentialgleichungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 6 (1964), 129-134. (M. Pinl) 29 #3741

Zur Theorie der parameterabhängigen Differentialformen. I. Reduzierte Periodenmatrizen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 6 (1964), 881-886. (M. Pinl) 31 #6072

Ein graphentheoretisches Zwischenwertproblem mit einer Anwendung auf periodische Funktionen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 481-488. (H. Fast) 33 #2776

Über das Wertannahmeproblem gewisser verallgemeinerter analytischer Funktionen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 610-615. (M. Coroi-Nedelcu) 33 #1474

Über eine Verschärfung der Aussage des Satzes von Rouché. *Arch. Math. (Basel)* 17 (1966), 432-434. (A. A. Armendáriz) 33 #7500

Zur Theorie der parameterabhängigen Differentialformen. II. Lineare Differentialoperatoren zweiter Ordnung und zugeordnetes Koeffizientendifferential. *Math. Ann.* 165 (1966), 31-35. (J. Eells) 33 #2960

Über einen Stetigkeitsbegriff für Kurven. *Math. Nachr.* 32 (1966), 307-311. (D. C. Benson) 36 #857

Modified first boundary value problem for non-selfadjoint partial differential equations of elliptic type. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 318-320. (L. K. Jackson) 34 #6316

(with Naas, J.) Geometrie und komplexe Differentiation. *Monatsb. Deutsch. Akad. Wiss. Berlin* 10 (1968), 12-21. (E. M. Zaustinsky) 41 #947

(with Naas, J.) Fortsetzung reeler Kurven zu isotropen Kurven und Anfangswertprobleme für verallgemeinerte analytische Funktionen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 10 (1968), 244-249. (E. M. Zaustinsky) 41 #492

Über eine spezielle Form des Maximumprinzips für holomorphe Funktionen in Zusammenhang mit einem Satz von Rossberg. *Ann. Polon. Math.* 22 (1969/70), 341-343. (D. V. V. Wend) 41 #3759

(with Naas, J.) Geometrie und komplexe Differentiationen. I. Verallgemeinerungen holomorpher Strukturen, insbesondere auf den Sphären S^{2n}. *Math. Nachr.* 39 (1969), 183-193. (T. Suguri) 39 #3422

Bemerkungen über pseudoholomorphe Funktionen mit vorgeschriebenem Nullstellenverhalten. *Monatsb. Deutsch. Akad. Wiss. Berlin* 11 (1969), 703-706. (J. A. Ward) 41 #7131

Integrabilitätsbedingungen p-analytischer Funktionen mehrerer komplexer Veränderlicher. *Math. Nachr.* 39 (1969), 239-248. (J. A. Ward) 40 #396

(with Naas, J.) Geometrie und komplexe Differentiationen. II. Modelle komplexer Differentialgeometrien. *Math. Nachr.* 42 (1969), 233-259. (T. Suguri) 42 #2378

(The sign } indicates an entry in the supplement.)

(with Naas, J.) Geometrie und komplexe Differentiation. III. Über die Chevalleysche Tangentendefinition und ihre Anwendung auf komplexe Mannigfaltigkeiten mit linearen Strukturrelationen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 11 (1969) 6-12. (E. M. Zaustinsky) 41 #948, erratum, 41, p. 1965

Das Reziprozitätstheorem für eine Klasse pseudoholomorpher Funktionen mehrerer komplexer Variabler. *S.-B. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* 108, *no.* 5, 19 *pp.* (1969). (R. P. Gilbert) 41 #8712

Pseudoholomorphe Funktionen einer und mehrerer komplexer Variabler im Zusammenhang mit der Theorie vollständiger Differentialgleichungssysteme. *Elliptische Differentialgleichungen, Band I (Kolloq., Berlin,* 1969*), pp.* 165-173. *Akademie-Verlag, Berlin,* 1970. (H. Kerner) 43 #556

Hartogs' theorem for generalized analytic functions of several complex variables. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 765-766. (O. Stănăşilă) 42 #6278

Konstruktion eindeutiger Stammfunktionen in mehrfach zusammenhängenden Gebieten. *Monatsb. Deutsch. Akad. Wiss. Berlin* 12 (1970), 249-255. (G. Wildenhain) 42 #4752

Über die Fortsetzung von Funktionen mehrerer Variabler ins Komplexe. *Math. Nachr.* 45 (1970), 373-377. (S. Delache) 42 #4763

Tutte, William T.

The number of planted plane trees with a given partition. *Amer. Math. Monthly* 71 (1964), 272-277. (F. Harary) 32 #4044

(with Brown, W. G.) On the enumeration of rooted nonseparable planar maps. *Canad. J. Math.* 16 (1964), 572-577. (J. Bosák) 31 #2164

(with Harary, F.) The number of plane trees with a given partition. *Mathematika* 11 (1964), 99-101. (G. Sabidussi) 30 #4691

(with Harary, Frank; Prins, Geert) The number of plane trees. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 319-329. (G. Sabidussi) 29 #4049

The quest of the perfect square. *Amer. Math. Monthly* 72 (1965), *no.* 2, *part II,* 29-35. (L. W. Danzer) 32 #2338

(with Harary, Frank) A dual form of Kuratowski's theorem. *Bull. Amer. Math. Soc.* 71 (1965), 168. (W. Moser) 32 #8329

(with Harary, Frank) A dual form of Kuratowski's theorem. *Canad. Math. Bull.* 8 (1965), 17-20. (W. Moser) 32 #8330

(with Harary, F.) Correction and addendum to: A dual form of Kuratowski's theorem. *Canad. Math. Bull.* 8 (1965), 373. (Editors) 32 #8331

Lectures on matroids. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 1-47. (J. W. Moon) 31 #4023

Menger's theorem for matroids. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 49-53. (J. W. Moon) 31 #3359

(with Erdős, Paul, Harary, Frank) On the dimension of a graph. *Mathematika* 12 (1965), 118-122. (J. W. Moon) 32 #5537

* Connectivity in graphs. Mathematical Expositions, No. 15. *University of Toronto Press, Toronto, Ont.; Oxford University Press, London,* 1966. ix + 145 *pp.* (F. Harary) 35 #1503

Squared rectangles. *Proc. IBM Sci. Comput. Sympos. Combinatorial Problems (Yorktown Heights, N. Y.,* 1964*), pp.* 3-9. *IBM Data Process. Division, White Plains, N. Y.,* 1966. (C. J. Bouwkamp) 35 #5346

Connectivity in matroids. *Canad. J. Math.* 18 (1966), 1301-1324. (A. Lehman) 34 #5706

On the algebraic theory of graph colorings. *J. Combinatorial Theory* 1 (1966), 15-50. (J. W. Moon) 33 #2573 (E)

(with Harary, Frank) On the order of the group of a planar map. *J. Combinatorial Theory* 1 (1966), 394-395. (S. Lin) 34 #90

Topics in graph theory. *Graph Theory and Theoretical Physics, pp.* 301-312. *Academic Press, London,* 1967. (W. Imrich) 38 #1015

Antisymmetrical digraphs. *Canad. J. Math.* 19 (1967), 1101-1117. (J. W. Moon) 35 #5362

A correction to: "On the algebraic theory of graph colorings". *J. Combinatorial Theory* 3 (1967), 102. (Editors) 35 #4124

On dichromatic polynomials. *J. Combinatorial Theory* 2 (1967), 301-320. (W. Moser) 36 #6320

(with Harary, Frank; Karp, Richard M.) A criterion for planarity of the square of a graph. *J. Combinatorial Theory* 2 (1967), 395-405. (J. Bosák) 36 #71

On even matroids. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 213-214. (A. Lehman) 37 #2622

On the enumeration of planar maps. *Bull. Amer. Math. Soc.* 74 (1968), 64-74. (J. W. Moon) 36 #1363

(See also Recent progress in combinatorics, 40 #4128)

Even and odd 4-colorings. *Proc. Techniques in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich.,* 1968*), pp.* 161-169. *Academic Press, New York,* 1969. (From the author's introduction) 40 #5499

Projective geometry and the 4-color problem. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 199-207. *Academic Press. New York,* 1969. (Author's summary) 40 #5500

A geometrical version of the four color problem. (With discussion) *Combinatorial Mathematics and its Applications (Proc. Conf., Univ. North Carolina, Chapel Hill, N. C.,* 1967*), pp.* 553-560. *Univ. North Carolina Press, Chapel Hill, N. C.* 1969. (M. Aigner) 41 #8298

(with Berman, G.) The golden root of a chromatic polynomial. *J. Combinatorial Theory* 6 (1969), 301-302. (D. W. Hall) 39 #98

On the enumeration of four-colored maps. *SIAM J. Appl. Mat* 17 (1969), 454-460. (F. Harary) 39 #5421

More about chromatic polynomials and the golden ratio. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta.,* 1969*), pp.* 439-453. *Gordon and Breach, New York,* 1970. (Author's summary) 41 #8299

On the enumeration of two-coloured, rooted and weighted pla trees. *Aequationes Math.* 4 (1970), 143-156. (H. Sachs) 42 #75

The golden ratio in the theory of chromatic polynomials. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 391-402. (R. E. Greenwood, 42 #130

Toward a theory of crossing numbers. *J. Combinatorial Theory* 8 (1970), 45-53. (W. G. Brown) 41 #6720

On chromatic polynomials and the golden ratio. *J. Combinatorial Theory* 9 (1970), 289-296. (Author's summary) 42 #7557

Graphs on spheres. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 239-248. *Academic Press, London,* 1971. (Author's summary) 42 #5853

* Introduction to the theory of matroids. Modern Analytic and Computational Methods in Science and Mathematics, No. 37. *American Elsevier Publishing Co., Inc., New York,* 1971. xi + 84 *pp.* (J. E. Graver) 43 #1865

Tutubalin V. N.

The limiting behavior of compositions of measures in certai homogeneous spaces. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963) 1301-1342. (J. E. Cigler) 32 #8393a

A remark on the paper "The limiting behavior of composition of measures in certain homogeneous spaces". (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1207. (J. E. Cigler) 32 #8393b

Compositions of measures on the simplest nilpotent group. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 531-539. (J. G. Wendel) 29 #6539

Limit theorems for a product of random matrices. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 19-32. (K. Krickeberg) 30 #5354

(See also Auslander, L.; Green, L.; Hahn, F., 35 #4332)

(with Sazonov, V. V.) Probability distributions on topological groups. (Russian. English summary) *Teor. Verojatnos i Primenen.* 11 (1966), 3-55. (I. Csiszár) 33 #8012

The asymptotic behavior of the distribution of a product of complex unimodular matrices. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 2, 70-77. (L. Schmetterer) 35 #1076

Brownian motion of the group of the complex unimodular matrices of the second order. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 33-36. (Author's summary) 36 #4649

On measures whose support is generated by a Lie algebra. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 154-160. (I. Csiszár) 36 #2185

The central limit theorem for random motions of Euclidean space. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 6, 100-108. (Author's summary) 39 #3566

The approximation of probability measures in variation and products of random matrices. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 63-81. (I. Csiszár) 37 #2304

Random walk on the Lobačevskiĭ plane. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 512-517. (J. G. Wendel) 38 #6642

Certain theorems of the type of the strong law of large numbers. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969) 319-326. (G. K. Eagleson) 40 #2145

An investigation of certain mathematical models of radio waveconductors with random inhomogeneities. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 577-596. (A. A. Maradudin) 42 #4090

Tuulmets, L. A.

The bending of a minimal congruence V_3 in R_4. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 13 (1964), 210-216. (M. Pinl) 30 #1464

Normal quasi-congruences V_3 in R_4-space. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964) 109-121. (A. Goetz) 33 #654

The second mean envelope of an isotropic congruence in R_4. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 206 (1967), 37-43. (I. Vaisman) 41 #6075

Tuyl, A. Van. See Van Tuyl, A.

Tuzar, Antonín

Bemerkung zur Optimisation der numerischen Lösung für die Randwertaufgaben der gewöhnlichen Differentialgleichungen. (Russian summary) *Acta Tech. ČSAV* 12 (1967), 304-313. (T. A. Porsching) 40 #3725

Tuzik, A. I.

On the solution of singular integral equations with Cauchy kernel in an exceptional case. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 2, 125-127. (H. G. Bzihatlov) 44 #7237 žilin, A. A.

The theory of Macdonald integrals. I. Recurrent relations. Uniformly convergent series. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1195-1212. (Z. Janković) 36 #434

The theory of Macdonald integrals. II. Asymptotic expansions. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1751-1765. (Z. Janković) 36 #5405

The theory of Macdonald integrals. III. New representations of Macdonald integrals. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1892-1900. (Z. Janković) 38 #4732

Asymptotic expansions of a certain class of integrals. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1024-1035. (E. Riekstiņš) 41 #7173

On the theory of the Fresnel integral. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 938-944. (S. Fempl) 40 #5911

Asymptotic expansions of the solutions of problems of the diffraction of waves in angular and wedge-shaped domains. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 99-113. (S. Kaliski) 43 #5795

A theory of the functional equations of Maljužinec. I. The homogeneous functional equations. General properties of the solutions. Special cases. (Russian) *Differencial'nye Uravnenija* 6 (1970), 692-704. (Z. Janković) 42 #4916

A theory of the functional equations of Maljužinec. II. The theory of infinite Barnes products. General solutions of homogeneous functional equations of Maljužinec. Various representations of the fundamental solutions. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1048-1063. (Z. Janković) 43 #758

The use of recurrence relations for MacDonald integrals to derive expressions for electromagnetic fields produced by dipoles in the presence of a perfectly conducting halfplane. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1520-1523. (J. E. Rosenthal) 43 #2912

A theory of the functional equations of Maljužinec. III. Inhomogeneous functional equations. General theory. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1077-1088. (Z. Janković) 44 #1962

uzov, V. A.

Regular sets of circuits of a graph. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 492-496. (R. M. Baer) 40 #2572

The minimization of graph schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 922-928. (I. Cederbaum) 38 #5523

The isolation of closed subgraphs. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1385-1387. (J. Bosák) 40 #1300

The canonical assumptions for graph schemes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 486-490. (J. Bosák) 42 #2986

Graph schemes with associative calculus. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 132-145. (A. Ádám) 43 #1780

varadze, S. V.

(with Jakovlev, A. V.) Auxiliary problems in the theory of the imbedding of fields. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 1, 67-76. (E. Inaba) 37 #1350

verberg, Helge

A remark on Ehrenfeucht's criterion for irreducibility of polynomials. *Prace Mat.* 8 (1963/64), 117-118. (W. Ledermann) 30 #1123

A generalization of Radon's theorem. *J. London Math. Soc.* 41 (1966), 123-128. (B. J. Birch) 32 #4601

On the irreducibility of polynomials $f(x) + g(y) + h(z)$. *Quart. J. Math. Oxford Ser.* (2) 17 (1966), 364-366. (A. Schinzel) 34 #4263

On Dilworth's decomposition theorem for partially ordered sets. *J. Combinatorial Theory* 3 (1967), 305-306. (R. P. Dilworth) 35 #5366

Further generalization of Radon's theorem. *J. London Math. Soc.* 43 (1968), 352-354. (H. Hadwiger) 41 #7535

On equal unions of sets. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 249-250. *Academic Press, London,* 1971. (M. Hochberg) 43 #4684

Tveritin, A. N.

Asymptotic representations of function-sums for a class of trigonometric series. (Russian) *Problems of Math. Phys. and Theory of Functions, II (Russian), pp.* 118-133. *Naukova Dumka, Kiev,* 1964. (J. Musielak) 32 #4451

Tverskoĭ, B. A.

(with Wo, Hong-An) The influence of rotation on the appearance of turbulence in plane flows. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1030-1032. (D. A. Lee) 31 #1852

Tversky, Amos

A general theory of polynomial conjoint measurement. *J. Mathematical Psychology* 4 (1967), 1-20. (R. D. Luce) 34 #5531

(with Krantz, David H.) The dimensional representation and the metric structure of similarity data. *J. Mathematical Psychology* 7 (1970), 572-596. (L. J. Gleser) 42 #2824

Tvrdý, Milan

The normal form and the stability of solutions of a system of differential equations in the complex domain. *Czechoslovak Math. J.* 20(95) (1970), 39-73. (J. Nikolaus) 41 #2100

Tweddle, I.

Weak compactness in locally convex spaces. *Glasgow Math. J.* 9 (1968), 123-127. (R. C. James) 39 #752

Unconditional convergence and vector-valued measures. *J. London Math. Soc.* (2) 2 (1970), 603-610. (J. Schmets) 42 #5006

(with Husain, T.) On the extreme points of the sum of two compact convex sets. *Math. Ann.* 188 (1970), 113-122. (D. G. Larman) 42 #6571

Vector-valued measures. *Proc. London Math. Soc.* (3) 20 (1970), 469-489. (F. Cunningham, Jr.) 41 #3707

Tweed, John

A note on the thermoelastic problem for a penny-shaped crack. *Glasgow Math. J.* 10 (1969), 169-172. (R. Muki) 41 #2987

Tweedie, M. C. K.

Further results concerning expectation-inversion technique. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que.,* 1963*), pp.* 195-218. *Statistical Publishing Society, Calcutta,* 1965. (R. V. Hogg) 35 #5060

A mean-square-error characterization of binomial-type distributions. *Ann. Math. Statist.* 38 (1967), 620-623. (J. Sacks) 35 #5041

(with Veevers, A.) The inversion of cumulant operators for power-series distributions, and the approximate stabilization of variance by transformations. *J. Amer. Statist. Assoc.* 63 (1968), 321-328. (G. P. Patil) 37 #2354

(See also Boneva, Liliana I.; Kendall, David; Stefanov, Ivan, 44 #6083)

Twersky, Victor

On propagation in random media of discrete scatterers. *Proc. Sympos. Appl. Math., Vol. XVI, pp.* 84-116. *Amer. Math. Soc., Providence, R.I.,* 1964. (C. H. Wilcox) 29 #906

(with Burke, James E.; Censor, Dan) Exact inverse-separation series for multiple scattering in two dimensions. *J. Acoust. Soc. Amer.* 37 (1965), 5-13. (R. F. Millar) 31 #2963

(See also Friedman, Bernard, 40 #6814)

Twine, S. W.

A double-six of cubic curves and developables and the associated icosahedral group. *J. London Math. Soc.* (2) 1 (1969), 184-188. (P. Vincensini) 39 #7494

Twomey, J. B.

(with Kennedy, P. B.) Some properties of bounded univalent functions and related classes of functions. *Proc. Roy. Irish Acad. Sect. A* 65, 43-49 (1967). (M. Reade) 35 #4388

On the derivative of a starlike function. *J. London Math. Soc.* (2) 2 (1970), 99-110. (S. D. Bernardi) 40 #7436

On starlike functions. *Proc. Amer. Math. Soc.* 24 (1970), 95-97. (D. K. Thomas) 40 #2843

On meromorphic starlike functions. *J. London Math. Soc.* (2) 4 (1971), 231-239. (Ch. Pommerenke) 44 #5445

(with Saff, E. B.) A note on the location of critical points of polynomials. *Proc. Amer. Math. Soc.* 27 (1971), 303-308. (M. Marden) 42 #6195

Twomey, S.

On the numerical solution of Fredholm integral equations of the first kind by the inversion of the linear system produced by quadrature. *J. Assoc. Comput. Mach.* 10 (1963), 97-101. (R. Kalaba) 29 #6655

The application of numerical filtering to the solution of integral equations encountered in indirect sensing measurements. *J. Franklin Inst.* 279 (1965), 95-109. (E. J. Scott) 31 #5358

(with Jacobowitz, H.; Howell, H. B.) Matrix methods for multiple-scattering problems. *J. Atmospheric Sci.* 23 (1966), 289-296. (Authors' summary) 33 #2102

Tyablikov, S. V. See Tjablikov, S. V.

Tyagi, B. N.

(with Kishen, K.) On the construction and analysis of some balanced asymmetrical factorial designs. *Calcutta Statist. Assoc. Bull.* 13 (1964), 123-149. (H. L. Harter) 30 #2629

On construction of second and third order rotatable designs through pairwise balanced and doubly balanced designs. *Calcutta Statist. Assoc. Bull.* 13 (1964), 150-162. (H. L. Harter) 30 #2637

(with Kishen, K.) Partially balanced asymmetrical factorial designs. *Contributions to Statistics, pp.* 147-158. *Statist. Publ. Soc., Calcutta,* 1965. (M. Atiqullah) 35 #6291

Tyagi, M. S.

The travelling-salesman problem. *Math. Seminar* 4, 168-176 (1968). (R. B. Potts) 42 #7255

Tyagi, N. K.

(with Mohan, G.) Multiple-channel bootstrap. *Nuovo Cimento* (10) 36 (1965), 291-293. (Ernest S. Abers) 33 #1014

Tyagi, V. P.

(with Kapur, J. N.) Similar solution of boundary layer equations for two-dimensional flows of a certain class of non-Newtonian fluids. *Z. Angew. Math. Mech.* 44 (1964), 137-139. (A. C. Pipkin) 30 #5650

General study of a hear transmission problem of a channel-gas flow with Neumann-type thermal boundary conditions. *Proc. Cambridge Philos. Soc.* 62 (1966), 555-573. (L. N. Tao) 33 #6973

Tyc, A.

(with Simson, D.) On stable derived functors. (Loose Russian summary) *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 18 (1970), 57-64. (G. Georgescu) 41 #8497

(with Simson, D.) On stable derived functors. II. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 635-639. (G. Georgescu) 43 #6287

Tychonov, A. N. See Tihonov, André Nikolaevič.

Tychonoff, A. N. See Tihonov, André Nikolaevič.

Tyčinina, S. E.

T_n-triples of complexes. (Russian) *Orenburg. Gos. Ped. Inst. Učen. Zap. Vyp.* 21 (1967), 135-139. (M. Akivis (RŽMat 1968 #10 A469)) 41 #9119

T pairs of congruences of planes in P_5. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 3 (70), 104-112. (A. Urban) 37 #6853

Stratifiable pairs of congruences of planes in P_5. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 77-86. (A. Urban) 37 #3465

Tym, Witold

(with Kisyński, Jan) Sur la convergence des approximations successives pour l'équation $\partial^2 z/\partial x\partial y = f(x,y,z,\partial z/\partial x,\partial z/\partial y)$. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 16 (1962), 107-121 (1964). (P. Hartman) 30 #1311

Tymchatyn, E. D.

A one-parameter subsemigroup which meets many regular $\mathcal{D}$-classes. *Canad. J. Math.* 21 (1969), 735-739. (A. D. Wallace) 39 #2904

(with Ward, L. E., Jr.) On three problems of Franklin and Wallace concerning partially ordered spaces. *Colloq. Math.* 20 (1969), 229-236. (D. R. Brown) 40 #3512

The 2-cell as a partially ordered space. *Pacific J. Math.* 30 (1969), 825-836. (H. Herrlich) 40 #3518

Antichains and products in partially ordered spaces. *Trans. Amer. Math. Soc.* 146 (1969), 511-520. (J. D. McCharen) 41 #7642

Tyndall, William F.

A duality theorem for a class of continuous linear programming problems. *J. Soc. Indust. Appl. Math.* 13 (1965), 644-666. (K. Ritter) 32 #9043

An extended duality theorem for continuous linear programming problems. *SIAM J. Appl. Math.* 15 (1967), 1294-1298. (K. Ritter) 36 #7410

On two duality theorems for continuous programming problems. *J. Math. Anal. Appl.* 31 (1970), 6-14. (M. Rössler) 41 #6565

Tynjanskiĭ, N. T.

Exact limits of sequences of inverse spectra of exact sequences of groups. (Russian) *Soobšč. Akad. Nauk Gruzin. SSR* 30 (1963), 393-400. (N. Stein) 32 #8338

(with Zelikin, M. I.) Determined differential games. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 151-157. (W. M. Wonham) 35 #2644

(with Lebedev, V. N.) Duality theory of concave-convex games. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 1264-1267. (J. R. Isbell) 35 #5229

Conjugacy of concave-convex functions. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 351-370. (M. Hasumi) 39 #4634

General concave-convex games. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 303-306. (W. M. Wonham) 39 #7949

Conjugate concave-convex functions in linear topological spaces, and their saddle points. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 512-541. (V. F. Dem janov) 39 #3823

Tynnov, M. See Tõnnov, M.

Tynyanskiĭ, N. T. See Tynjanskiĭ, N. T.

Tyras, G.

(with de Marchin, Phillippe) Radiation from an infinite axial slot on a circular cylinder clad with magnetoplasma. *J. Res. Nat. Bur. Standards Sect. D* 69D (1965), 529-538. (R. D. Kodis) 31 #6512

Tyrrell, J. A.

(with Reeve, J. E.) Intersection theory on a singular algebraic surface—Addendum. *J. London Math. Soc.* 41 (1966), 619-626. (P. Du Val) 34 #2583

(with Semple, J. G.) Specialization of Cremona transformations. *Mathematika* 15 (1968), 171-177. (O.-H. Keller) 38 #5772

(with Williams, C. M.) On the pure transcendence of certain fields of rational functions. *Bull. London Math. Soc.* 1 (1969), 75-78. (J. Ohm) 39 #184

(with Semple, J. G.) The Cremona transformation of S_6 by quadrics through a normal elliptic septimic scroll ${}^iR^7$. *Mathematika* 16 (1969), 89-97. (A. Evyatar) 40 #2676

(with Semple, J. G.) The $T_{2,4}$ of S_6 defined by a rational surface ${}^3F^8$. *Proc. London Math. Soc.* (3) 20 (1970), 205-221. (O.-H. Keller) 41 #5367; erratum, 42, p. 1824

* (with Semple, J. G.) Generalized Clifford parallelism. Cambridge Tracts in Mathematics and Mathematical Physics, No. 61. *Cambridge University Press, London-New York,* 1971. vii + 140 *pp.* (J. A. Todd) 44 #3179

(with Reeve, J. E.) The surface of S_4 generated by the rational normal quartic curves which touch four given lines. *J. London Math. Soc.* (2) 3 (1971), 1-6. (B. d'Orgeval) 43 #2598

Tyshkevich, R. See Tyškevič, R. I.

Tyškevič, R. See Tyškevič, R. I.

Tyškevič, R. I.

(with Suprunenko, D. A.) Dynamical transformations. (Russia *Dokl. Akad. Nauk BSSR* 7 (1963), 289-292. (J. L. Brenner) 30 #3791

(with Suprunenko, D. A.) Dynamic mappings and a class of determinate machines. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 2, 9-17. (Authors' summary) 34 #4070

* (with Suprunenko, D. A.) Перестановочные матрицы. (Russian) Commutative matrices) *Nauka i Tehnika, Minsk,* 1966. 104 *pp.* (R. F. Rinehart) 34 #1356

* (with Fedenko, A. S.) Линейная алгебра и аналитическая геометрия. (Russian) [Linear algebra and analytic geometry] *Izdat "Vyšèĭšaja Škola", Minsk,* 1968. 503 *pp.* (Editors) 41 #1752

(with Suprunenko, D. A.) Contractible subgroups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 861-862. (K. A. Hirsch) 40 #4362

Transitive groups with transitive stabilizers. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 6, 35-37. (József Pelikán) 44 #2811

Primitive permutation groups and holomorphs of groups. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1971, *no.* 1, 14-21. (J. D. Dixon) 44 #6808

Tytus, Francis J.

A theorem for deriving consequences of the axiom of choice. *Notre Dame J. Formal Logic* 8 (1967), 291-296. (E. Harzheim) 38 #4325

An elementary construction of the natural numbers. *Notre Dame J. Formal Logic* 8 (1967), 297-300. (G. Fodor) 39 #2629

Tyugu, È. H.

Solution of problems on computer models. (Russian) *Ž. Vyčisl Mat. i Mat. Fiz.* 10 (1970), 716-733. (E. Seiden) 44 #1276

Tyurina, G. N. See Tjurina, G. N.

Tzafestas, S. G.

A minimum principle in Hilbert space. *Internat. J. Control* (1) 11 (1970), 917-921. (D. G. B. Edelen) 43 #1015

Final-value control of nonlinear composite distributed- and lumped-parameter systems. *J. Franklin Inst.* 290 (1970), 439-451. (J. Willems) 43 #5967

On the identification of hybrid distributed-parameter control systems. *Internat. J. Control* (1) 13 (1971), 145-154. (C. P. Tsokos) 43 #4534

Tzafriri, L.

The connection between normalizable and spectral operators. *Israel J. Math.* 3 (1965), 75-80. (H. A. Gindler) 32 #8184

On perturbation theory for spectral operators. *Israel J. Math.* 4 (1966), 62-64. (S. R. Foguel) 33 #7866

On multiplicity theory for Boolean algebras of projections. *Israel J. Math.* 4 (1966), 217-224. (J. R. Ringrose) 35 #783

Operators commuting with Boolean algebras of projections of finite multiplicity. *Pacific J. Math.* 20 (1967), 571-587. (J. T. Schwartz) 34 #8197

Operators commuting with Boolean algebras of projections of infinite multiplicity. *Trans. Amer. Math. Soc.* 128 (1967), 164-175. (B. R. Gelbaum) 35 #2165

Quasi-similarity for spectral operators on Banach spaces. *Pacific J. Math.* 25 (1968), 197-217. (K. K. Oberai) 37 #2029

(with McCarthy, C. A.) Projections in $\mathcal{L}_1$ and $\mathcal{L}_\infty$-spaces. *Pacific J. Math.* 26 (1968), 529-546. (J. Lindenstrauss) 39 #2007

Remarks on contractive projections in L_p-spaces. *Isreal J. Math.* 7 (1969), 9-15. (S. Newberger) 40 #1766

Reflexivity of cyclic Banach spaces. *Proc. Amer. Math. Soc.* 22 (1969), 61-68. (W. A. J. Luxemburg) 39 #6058

(with Lindenstrauss, J.) On the complemented subspaces problem. *Isreal J. Math.* 9 (1971), 263-269. (W. J. Davis) 43 #2474

Conditional expectations and an isomorphic characterization of L_1-spaces. *Proc. Amer. Math. Soc.* 27 (1971), 317-324. (F. Cunningham, Jr.) 43 #900

Tzannes, Nicolaos S.

Polynomial expansions of random functions. *IEEE Trans. Information Theory* IT-13 (1967), 314. (H. Bergström) 35 #3728

Tzarina, Marian. See Ţarină, Marian.

Tzeng, K. K.

(with Hartmann, C. R. P.) On the minimum distance of certain reversible cyclic codes. *IEEE Trans. Information Theory* IT-16 (1970), 644-646. (Authors' summary) 43 #1747

Tzénoff, Iv. See Cenov, I. V.

Tzenov, I. See Cenov, I. V.

Tzer, Yee Lee. See Lee, Tzer-Yee.

Tzou, Kuo-Hsien

Covariant electrodynamics of charged mesons of spin one with arbitrary anomalous magnetic moment. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 286-308. (S. Bludman) 32 #5144

Tzschach, H. G.

(with Künzi, H. P.) The duoplex-algorithm. *Numer. Math.* 7 (1965), 222-225. (R. W. Cottle) 31 #4615

* (with Künzi, H. P.; Zehnder, C. A.) Numerische Methoden der mathematischen Optimierung, mit ALGOL- und FORTRAN-Programmen. Leitfäden der angewandten Mathematik und Mechanik, Band 8. *B. G. Teubner, Stuttgart,* 1967. 151 pp. (H. F. Karreman) 35 #3863

* (with Künzi, Hans P.; Zehnder, C. A.) Numerical methods of mathematical optimization, with ALGOL and FORTRAN programs. Translated from the German by Werner C. Rheinboldt and Cornelie J. Rheinboldt. *Academic Press, New York-London,* 1968. x + 171 pp. (Editors) 37 #2413

Tzung, F.

(with Hegemier, G. A.) Stress-wave generation in a temperature-dependent absorbing solid by implusive electromagnetic radiation. *Trans. ASME Ser. E. J. Appl. Mech.* 37 (1970), 339-344. (S. Kaliski) 42 #7122

U, Cun-sin'. See Wu Ts'ung-hsin.

Uaĭld"r, R. L. See Wilder, Raymond Louis.

Ubaĭdullaeva, M. K.

The intersection of "past" and "future" random processes with a discrete set of states. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 15 (1971), *no.* 1, 29-31. (D. A. Darling) 44 #4808

Ubaldo, Guido

(See Mechanics in sixteenth-century Italy, 38 #5558)

Ubaldo, Richard. See Richard Ubaldo.

Uberoi, C.

Gravitational instability of an infinitely extending layer of finite thickness surrounded by non-conducting material in the presence of magnetic field and rotation. *J. Indian Inst. Sci.* 46 (1964), 11-27. (L. J. F. Broer) 29 #5511

(with Raghavachar, M. R.) Gravitational instability in the presence of Hall current. *J. Indian Inst. Sci.* 46 (1964), 91-103. (R. S. B. Ong) 31 #4325

Uberoi, Mahinder S.

(with Chow, Chuen-yen) Hydromagnetic instability of fluid between two coaxial cylinders. *Phys. Fluids* 8 (1965), 413-417. (Wei Lai) 33 #3568

U Can-pu. See Wu Ts'ang-p'u.

Ucci, J. J.

Immersions and embeddings of Dold manifolds. *Topology* 4 (1965), 283-293. (A. Dold) 32 #4703

On symmetric maps of spheres. *Invent. Math.* 5 (1968), 8-18. (I. M. James) 37 #917

On the symmetric cube of a sphere. *Trans. Amer. Math. Soc.* 151 (1970), 527-549. (R. E. Mosher) 41 #9255

Uchida, Fuichi

A note on the generalized homology theory. *Tôhoku Math. J.* (2) 16 (1964), 81-89. (J.-P. Meyer) 29 #1640

Immersions and embeddings of tangent bundles. *Tôhoku Math. J.* (2) 17 (1965), 161-170. (D. Fuks (RŽMat 1966 #8 A390)) 36 #901

Immersions of lens spaces. *Tôhoku Math. J.* (2) 18 (1966), 393-397. (M. L. Curtis) 35 #2294

Stable operations in mod p cohomology theories. *Osaka J. Math.* 6 (1969), 93-106. (C. M. Naylor) 41 #4531

Exact sequences involving cobordism groups of immersions. *Osaka J. Math.* 6 (1969), 397-408. (K. Lamotke) 41 #9271

The structure of the cobordism groups $B(n,k)$ of bundles over manifolds with involution. *Osaka J. Math.* 7 (1970), 193-202. (R. E. Stong) 41 #9272

Cobordism groups of semi-free S^1- and S^3-actions. *Osaka J. Math.* 7 (1970), 345-351. (K. Aoki) 43 #4068

Bordism algebra of involutions. *Proc. Japan Acad.* 46 (1970), 615-619. (C. B. Thomas) 44 #4759

(with Kawakubo, Katsuo) On the index of a semi-free S^1-action. *J. Math. Soc. Japan* 23 (1971), 351-355. (H. Scheerer) 44 #3345

Uchida, Kôji

On Tannaka's conjecture on the cohomologically trivial modules. *Proc. Japan Acad.* 41 (1965), 249-253. (A. Rosenberg) 32 #1237

A note on the projective modules over group rings. *Proc. Japan Acad.* 43 (1967), 13-16. (L. J. Ratliff, Jr.) 35 #4318

Remarks on Grothendieck rings. *Tôhoku Math. J.* (2) 19 (1967), 341-348. (A. Heller) 37 #2838

On Tate's duality theorems in Galois cohomology. *Tôhoku Math. J.* (2) 21 (1969), 92-101. (J. P. Labute) 40 #5603

Unramified extensions of quadratic number fields. I. *Tôhoku Math. J.* (2) 22 (1970), 138-141. (J. Browkin) 42 #7640

Unramified extensions of quadratic number fields. II. *Tôhoku Math. J.* (2) 22 (1970), 220-224. (J. Browkin) 42 #7641

Galois group of an equation $X^n - aX + b = 0$. *Tôhoku Math. J.* (2) 22 (1970), 670-678. (I. L. Gaal) 43 #3238

Class numbers of imaginary abelian number fields. I. *Tôhoku Math. J.* (2) 23 (1971), 97-104. (T. Metsänkylä) 44 #2727

Class numbers of imaginary abelian number fields. II. *Tôhoku Math. J.* (2) 23 (1971), 335-348. (T. Metsänkylä) 44 #5294

Class numbers of imaginary abelian number fields. III. *Tôhoku Math. J.* (2) 23 (1971), 573-580. (T. Metsänkylä) 44 #5295

Uchida, Minoru

(with Hori, Motoo) Application of the theory of Markov processes to comminution. I. The case of discrete time parameter. *Kōdai Math. Sem. Rep.* 19 (1967), 174-188. (Benjamin Epstein) 36 #2238 (E)

(with Hori, Motoo) Errata to: "Application of the theory of Markov processes to comminution. I. The case of discrete time parameter". *Kōdai Math. Sem. Rep.* 19 (1967), 384. (Editors) 36 #6027

(with Hori, Motoo) Correction to: "Application of the theory of Markov processes to comminution. I. The case of discrete time parameter". *Kōdai Math. Sem. Rep.* 20 (1968), 125-126. (Editors) 37 #4896

Uchiyama, Hironobu

(with Sawaragi, Yoshikazu; Tanaka, Teruo) The phase plane analysis of on-off control system with series compensation. II. Approximate proportional-derivative type compensation. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 588-595. (Authors' summary) 42 #5681

Uchiyama, Jun

On the discrete eigenvalues of the many-particle system. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966), 117-132. (E. J. Woods) 34 #8240

On the spectra of integral operators connected with Boltzman and Schrödinger operators. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 101-127. (M. J. Fisher) 36 #5774

Finiteness of the number of discrete eigenvalues of the Schrödinger operator for a three particle system. *Publ. Res. Inst. Math. Sci.* 5 (1969), 51-63. (D. Babbitt) 40 #6900 (E)

Corrections to: "Finiteness of the number of discrete eigenvalues of the Schrödinger operator for a three particle system". *Publ. Res. Inst. Math. Sci.* 6 (1970), 189-192. (D. Babbitt) 42 #5566

Finiteness of the number of discrete eigenvalues of the Schrödinger operator for a three particle system. II. *Publ. Res. Inst. Math. Sci.* 6 (1970), 193-200. (D. Babbitt) 42 #4115

On the existence of the discrete eigenvalue of the Schröding operator for the negative hydrogen ion. *Publ. Res. Inst. Math. Sci.* 6 (1970), 201-204. (E. Müller-Pfeiffer) 42 #3438

(with Ikebe, Teruo) On the asymptotic behavior of eigenfunctions of second-order elliptic operators. *J. Math. Kyoto Univ.* 11 (1971), 425-448. (E. Müller-Pfeiffer) 44 #7152

Uchiyama, Koîchi

(with Fujiwara, Daisuke) On some dissipative boundary value problems for the Laplacian. *J. Math. Soc. Japan* 23 (1971), 625-6 (S. Dümmel) 44 #4574

Uchiyama, Miyoko

(with Uchiyama, Saburô) On the representation of large even integers as sums of a prime and an almost prime. *Proc. Japan Acad.* 40 (1964), 150-154. (N. G. de Bruijn) 29 #2234

Uchiyama, Saburô

A further note on the sieve method of A. Selberg. *J. Fac. Sci. Hokkaido Univ. Ser. I* 17 (1963), 79-83. (Morris Newman) 29 #1196

On the distribution of almost primes in an arithmetic progression. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 1-22. (E. Cohen) 30 #1108

(with Togashi, Akiyo) On the representation of large even integers as sums of two almost primes. I. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 60-68. (H. Gupta) 29 #3420

On the representation of large even integers as sums of two almost primes. II. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964), 69-77. (H. Gupta) 29 #3421

On the distribution of integers representable as a sum of two h-th powers. *J. Fac. Sci. Hokkaido Univ. Ser. I* 18 (1964/65), 124-127. (R. P. Bambah) 30 #3071

(with Uchiyama, Miyoko) On the representation of large even integers as sums of a prime and an almost prime. *Proc. Japan Acad.* 40 (1964), 150-154. (N. G. de Bruijn) 29 #2234

À propos d'un problème de M. J. E. Littlewood. *C. R. Acad. Sci. Paris* 260 (1965), 2675-2678. (S. Chowla) 31 #3387

On the mean modulus of trigonometric polynomials whose coefficients have random signs. *Proc. Amer. Math. Soc.* 16 (1965), 1185-1190. (G. Sunouchi) 32 #2830

A limit theorem for sums of a certain kind of random variable *Proc. Japan Acad.* 41 (1965), 99-103. (P. Erdős) 31 #5236

On a theorem of G. Pólya. *Proc. Japan Acad.* 41 (1965), 517-520. (D. G. Cantor) 34 #1309

On a differential-difference equation. *J. Fac. Sci. Hokkaido Univ. Ser. I* 19 (1966), 59-65. (N. G. de Bruijn) 34 #4736

Sur des sommes de nombres entiers relativement premiers à n. *J. Fac. Sci. Shinshu Univ.* 1 (1966), 19-23. (O. H. Körner) 36 #5065

A note on a theorem of J. N. Franklin. *Math. Comp.* 20 (1966), 139-140. (F. Supnick) 32 #5630

(with Koshiba, Zen'ichirô) On the existence of prime numbers in arithmetic progressions. *Proc. Japan Acad.* 42 (1966), 696-701. (A. E. Ingham) 35 #1561

(with Koshiba, Zen'ichirô) On the existence of prime numbers in arithmetic progressions. *J. Math. Anal. Appl.* 19 (1967), 431-443. (T. M. Apostol) 35 #4177

On the representation of large even integers as sums of a prime and an almost prime. II. *Proc. Japan Acad.* 43 (1967), 567-571. (N. G. de Bruijn) 37 #179

A note on the uniform distribution of sequences of integers. *J. Fac. Sci. Shinshu Univ.* 3 (1968), 163-169. (I. Niven) 40 #115

(with Kuipers, Lauwerens) Notes on the uniform distribution of sequences of integers. *Proc. Japan Acad.* 44 (1968), 608-613. (J. Chauvineau) 39 #148

On the number of representations of an integer as the sum of the square of a prime and an r-free integer. *J. Fac. Sci. Shinshu Univ.* 5 (1970), 141-146. (O. H. Körner) 43 #7412

On some products involving primes. *Proc. Amer. Math. Soc.* 28 (1971), 629-630. (S. L. Segal) 43 #3227

Ucsnay, Peter

Wohlgeordnete Untermengen in totalgeordneten Gruppen. Mit einer Anwendung auf Potenzreihenkörper. *Math. Ann.* 160 (1965), 161-170. (P. Ribenboim) 32 #147

Durch Äquivalenzrelationen beschreibbare uniforme Strukturen. *J. Reine Angew. Math.* 234 (1969), 99-106. (H. Yanagihara) 39 #2735

Uda, Toshio

(with Ozaki, Shigeo) On some properties of flat families. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 297-300 (1970). (H. Kerner) 43 #3494

Udagawa, Kanehisa

(with Sato, Shigeo) Asymptotic behavior of solutions of differential difference equations for delay system. *Electron. Commun. Japan* 48 (1965), *no.* 2, 27-34. (S. Ekberg) 34 #3683

(with Inagaki, Yasuyoshi; Tange, Hidetaka) The state characteristic equations of finite automata and their regular expressions. *Electron. Commun. Japan* 48 (1965), *no.* 9, 25-36. (S. Huzino) 34 #8897

Udalov, A. S.

On the theory of curves and surfaces in affine and projective spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 4 (35), 158-164. (A. Goetz) 29 #2736

Some questions in the theory of curves and surfaces in affine and projective spaces. (Russian) *Works of Young Scientists (Russian), pp.* 93-94. *Izdat. Saratov. Univ., Saratov,* 1964. (L. Tamássy) 32 #4617

Invariant rigging of surfaces in multidimensional projective space. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 2 (69), 102-105. (I. Kolář) 37 #2109

Uddin Ahmed, Nasir. See Ahmed, Nariruddin.

Udeschini, Paolo

Sopra una costante universale nella teoria unitaria di Einstein. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 68-80. (V. Hlavatý) 29 #1040

On Einstein's unified field theory. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 436-447. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (W. Israel) 34 #5490

Hamiltonian formalism in Einsteinian gravitation: Geometrical aspect. (Italian summary) *Meccanica--J. Italian Assoc. Theoret. Appl. Mech.* 3 (1968), 148-155. (P. G. Bergmann) 42 #5605

Udeschini Brinis, Elisa

Sul significato delle caratteristiche cinetiche e delle equazioni del Maggi per sistemi anolonomi. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 303-311. (T. P. Anđelić) 32 #6724

Sul divario fra due campi cinetici. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 274-281. (J. Charles-Renaudie) 29 #4238

Sui sistemi meccanici dinamicamente equivalenti. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 592-602. (L. A. MacColl) 29 #4239

Equazioni di campi spinoriali dedotte da un'unica lagrangiana. I. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 577-585. (W. Rindler) 34 #5495

Equazioni di campi spinoriali dedotte da un'unica lagrangiana. II. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 828-832. (W. Rindler) 34 #5496

Deduzione variazionale delle equazioni gravitazionali spinoriali. (English summary) *Ann. Mat. Pura Appl.* (4) 81 (1969), 45-59. (P. Havas) 39 #6606

Principio variazionale spinoriale nei campi gravitazionali einsteiniani. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 249-260. (N. D. Sengupta) 40 #8429

Udgaonkar, Bhalchandra M.

Phenomenology based on Regge poles. *Strong Interactions and High Energy Physics (Scottish Universities' Summer School,* 1963), *pp.* 223-258. *Plenum Press, New York,* 1964. (P. Roman) 30 #5727

(with Balázs, L. A. P.; Singh, Virendra) Reciprocal bootstrap possibilities for baryons. *Phys. Rev.* (2) 139 (1965), B1313-B1318. (P. Tarjanne) 32 #5169

(with Singh, Virendra) Baryon bootstrap possibilities in SU(6). *Phys. Rev.* (2) 139 (1965), B1585-B1587. (P. Tarjanne) 32 #5170

Udilov, V. V.

The estimation of the stability of linear interacting systems with distributed parameters. (Russian) *Complex Systems of Control, No.* 4 *(Russian), pp.* 74-80. *Naukova Dumka, Kiev,* 1968. (Editors) 39 #5186

(with Gudymenko, B. A.) The application of the vector-valued Ljapunov function in the problem of stabilizing higher-dimensional systems. (Russian) *Complex Control Systems (Proc. Seminar, Kiev,* 1968). *No.* 1 *(Russian), pp.* 41-56. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #7971

The optimization of linear control systems with a symmetric principal part. (Russian) *Complex Control Systems (Proc. Seminar, Kiev,* 1968). *No.* 1 *(Russian), pp.* 57-70. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #7986

Udrescu, Valeriu Şt.

Sur le premier théorème de réduction d'Eilenberg et MacLane. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 11 (1961), 285-288. (B. B. Venkov (RŽMat 1962 #1 A277)) 30 #4817

A generalization of the notion of continuous map. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 499-503. (Author's summary) 30 #5259

On several types of continuity. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 505-507. (Author's summary) 30 #5260

About Serre fiber spaces. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 601-609. (S.-T. Hu) 32 #3063b

On Serre fiber spaces. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 861-869. (S.-T. Hu) 32 #3063a

L'homologie des Λ-(Φ,Ψ)-modules. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 471-480. (P. Abellanas) 33 #4120

Homology of Λ-(Φ,Ψ)-modules. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 519-528. (Editors) 33 #4121

A quadratic diophantine equation. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 885-886. (J. D. Swift) 38 #4404

An elementary proof of a conjecture of Ramanujan. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 887-890. (J. D. Swift) 38 #4403

On the zeta function of a totally positive definite quadratic form. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1629-1632. (S. L. Segal) 41 #3411

On a theorem of Chowla. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1633-1634. (W. Ljunggren) 41 #3398

Udrişte, Constantin N.

Introduction of some intrinsic differential invariants in Riemannian varieties. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 509-514. (Author's summary) 42 #5202

Groups of motions in Riemannian spaces of class one. (Romanian. French summary) *Stud. Cerc. Mat.* 21 (1969), 515-524. (Author's summary) 42 #5191

Groups of motions and the directions of the lines of curvature. (Romanian. Russian, English, French and German summaries) *Bul. Inst. Politehn. Bucureşti* 32 (1970), *no.* 4, 29-34. (R. Miron) 44 #4682

Congruences on the tangent bundle of a differentiable manifold. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1079-1096. (A. Rapcsák) 44 #3235

Uebe, G.

* (with Hochstädter, D.) Ökonometrische Methoden. Lecture Notes in Operations Research and Mathematical Systems, Vol. 26. *Springer-Verlag, Berlin-New York,* 1970. xii + 250 *pp.* (M. Rössler) 41 #6551

Ueberfuhr, Hans-Jürgen

Über die Lösungseinschliessung bei Systemen gewöhnlicher Differentialgleichungen. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 8 (1966), 275-282. (W. J. Kotzé) 39 #2336

Über die Iteration mit einem abgeänderten Operator. *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 10 (1968), 565-566. 39 #7793

Ueda, Takao

The continuity of a critical point set with applications to some decision problems. *SIAM J. Appl. Math.* 21 (1971), 145-154. (Author's summary) 44 #7986

Ueda, Yoshiaki

(with Schechter, J.; Okubo, S.) Permutation symmetry and a derivation of unitary symmetry. *Ann. Physics* 32 (1965), 424-443. (N. Mukunda) 33 #2283

(with Okubo, Susumu) Possible effects of CP violation in $K^+ \to 3\pi$ decay. *Phys. Rev.* (2) 139 (1965), B1591-B1599. (G. Barton) 32 #7002

(with Schechter, J.) Weak currents in broken $U(3) \otimes U(3)$. *Phys. Rev.* (2) 144 (1966), 1338-1342. (R. Gatto) 33 #3671

(with Hayashi, Chihiro; Kawakami, H.) Transformation theory as applied to the solutions of non-linear differential equations of the second order. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 4 (1969), 235-255. (H. C. Howard) 41 #579

Uehara, Hiroshi

(with Brenneman, Frank) On a cotriple homology in a fibred category. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 13-38. (M. Barr) 40 #2734

(with Shimada, Nobuo; Brenneman, Frank; Iwai, Akira) Triple cohomology of algebras and two term extensions. *Publ. Res. Inst. Math. Sci.* 5 (1969), 267-285. (M. Barr) 41 #5467

Uehara, Masayuki

Composite particles and vanishing wave function renormalization constants in *S*-matrix theory. *Progr. Theoret. Phys.* 32 (1964), 306-319. 32 #836

Uehara, Takeyuki

(with Iri, Yumi; Iri, Masao) The geometry of the Cartan space associated with general compressible fluid flows. (French, German, Italian, and Russian summaries) *Internat. J. Engrg. Sci.* 1 (1963), 497-508. (H. A. Eliopoulos) 29 #1847

(with Kondo, Kazuo; Sato, Kohei) Non-Riemannian dynamical theory of energy conversion. I. General principle. (Japanese summary) *RAAG Res. Notes* (3) *No.* 157 (1970), i + 41 *pp.* (D. Lovelock) 41 #9137

Uematu, Tosio

On a multidimensional linear discriminant function. *Ann. Inst. Statist. Math.* 16 (1964), 431-437. (D. G. Chapman) 31 #842

Ueno, Sueo

The invariant imbedding method for transport problems. II. Resolvent in photon diffusion equation. *J. Math. Anal. Appl.* 3 (1961), 361-372. (R. Kalaba) 29 #3212

(with Bellman, Richard; Kalaba, Robert) Invariant imbedding and diffuse reflection from a two-dimensional flat layer. *Icarus* 1 (1962/63), 297-303. (G. M. Wing) 30 #1828

(with Aroesty, J.; Bellman, R.; Kalaba, R.) Invariant imbedding and rarefied gas dynamics. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 10(14) (1964), *no.* 1-2, 85-90. (J. P. Guiraud) 32 #3403

(with Bellman, Richard; Kalaba, Robert) Invariant imbedding and time-dependent scattering of light in a one-dimensional medium. *J. Math. Anal. Appl.* 9 (1964), 424-432. (G. M. Wing) 31 #1078

A probabilistic approach for scattering of light in slab geometry. I. *J. Math. Anal. Appl.* 11 (1965), 11-19. (E. H. Bareiss) 32 #8964

(with Bellman, R. E.; Kagiwada, H. H.; Kalaba, R. E.) Invariant imbedding and the computation of internal fields for transport processes. *J. Math. Anal. Appl.* 12 (1965), 541-548. (G. M. Wing) 32 #8959

(with Bellman, R.; Kagiwada, H.; Kalaba, R.) On the identification of systems and the unscrambling of data. II. An inverse problem in radiative transfer. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 910-913. (C. L. Sheng) 30 #5845

(with Bellman, Richard; Kalaba, Robert) Invariant imbedding and scattering of light in a one-dimensional medium with a moving boundary. *J. Math. Anal. Appl.* 15 (1966), 171-182. (H. H. Kagiwada) 33 #7068

(with Kagiwada, H.; Kalaba, R.) Initial-value methods for integral equations arising in theories of the solar atmosphere. (Russian summary) *Astrofizika* 4 (1968), 493-503. (Editors) 39 #1917

(with Buell, June; Kalaba, Robert) Exact solution of a family of matrix integral equations for multiply scattered partially polarized radiation. I. Technical Report No. 69-1. *Department of Electrical Engineering, University of Southern California, Los Angeles, Calif.*, 1969. i + 7 *pp.* (A. Leonard) 42 #7217

(with Buell, June; Kalaba, Robert) Exact solution of a family of matrix integral equations for multiply scattered partially polarized radiation. I. *J. Mathematical and Physical Sci.* 4 (1970), 180-185. (I. Stakgold) 44 #4932

(with Buell, June; Casti, John; Kalaba, Robert) Exact solution of a family of matrix integral equations for multiply scattered partially polarized radiation. II. *J. Mathematical Phys.* 11 (1970), 1673-1678. (A. Leonard) 42 #7218

(with Casti, J.; Kalaba, R.) Invariant imbedding and the variational treatment of Fredholm integral equations with displacement kernels. *J. Mathematical Phys.* 12 (1971), 1276-1278. (P. Achuthan) 44 #2125

Ueno, Tadashi

(with Ikeda, Nobuyuki; Tanaka, Hiroshi; Sato, Keniti) A boundary-value problem for multi-dimensional diffusion processes. (Japanese) *Sûgaku* 13 (1961/62), 37-53. (Yuji Itô) 29 #4093

(with Sato, Keniti) Multi-dimensional diffusion and the Markov process on the boundary. *J. Math. Kyoto Univ.* 4 (1964/65), 529-605. (H. P. McKean, Jr.) 33 #6702

A survey on the Markov process on the boundary of multidimensional diffusion. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.*, 1965/66), *Vol. II: Contributions to Probability Theory, Part* 2, *pp.* 111-130. *Univ. California Press, Berkeley, Calif.*, 1967. (H. Bauer) 36 #3415

A class of Markov processes with non-linear, bounded generators. *Japan. J. Math.* 38 (1969), 19-38. (C. P. Tsokos) 41 #4656

A class of purely discontinuous Markov processes with interactions. I, II. *Proc. Japan Acad.* 45 (1969), 348-353; *ibid.* 45 (1969), 437-440. (J. A. Goldstein) 40 #6654

A class of Markov processes with interactions. I, II. *Proc. Japan Acad.* 45 (1969), 641-646; *ibid.* 46 (1970), 995-1000. (T. E. Harris) 42 #3859

Uesaka, Yoshinori

Theory of construction of nonlinear discriminant function. *Electron. Commun. Japan* 51 (1968), *no.* 7, 128-137. (N. Zierler) 41 #1451

Uesu, Tadahiro

On Zermelo's set-theory and the simple type-theory with the axiom of infinity. *Comment. Math. Univ. St. Paul.* 15 (1966), 49-59. (G. Fodor) 34 #4116

Zermelo's set theory and G*LC. *Comment. Math. Univ. St. Paul.* 16 (1967/68), 69-88. (K. Schütte) 38 #41 (E)

Gentzen's Hauptsatz for simple type theory with the infinit induction. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 124-126 (1969). (J. N. Crossley) 41 #34

On the recursively restricted rules. *Comment. Math. Univ. St. Paul.* 18 (1970), 31-42. (K. J. Barwise) 42 #71

Uesugi, Toshitane

On the λ prolongation of a pseudogroup of transformations. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 12 (1965), 29-33. (A. M. Rodrigues) 34 #6747

A note on the topological groupoid associated with a pseudogroup of transformations. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 12 (1965), 35-40. (A. M. Rodrigues) 34 #6748

On the relations between the groupoid and the pseudogroup of transformations. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 12 (1965), 41-55. (A. M. Rodrigues) 34 #6749

Uetake, Y.

(with Kishi, G.) Rank of edge incidence matrix. *IEEE Trans. Circuit Theory* CT-16 (1969), 230-232. (L. W. Beineke) 39 #4037

Ufimcev, G. V.

Optimal two-impulse transfer under the action of perturbations in the plane of the transfer orbit. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 1, 146-152. (B. Garfinkel) 44 #2479

Ufimcev, P. Ja.

Transverse diffusion in diffraction at a wedge. (Russian) *Radiotehn. i Èlektron.* 10 (1965), 1013-1022. (N. D. Kazarinoff) 33 #2108

Asymptotic solution of the problem of diffraction on a ribbon. *Radiotehn. i Èlektron.* 13 (1968), 1867-1870 *(Russian); translated as Radio Engrg. Electron. Phys.* 1968, 1631-1633 (1969). (R. E. Kleinman) 39 #5098

Asymptotic expansions in the theory of diffraction of a plane wave by a strip. *Dokl. Akad. Nauk SSSR* 187 (1969), 1257-1260 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 755-757. (Wallace L. Anderson) 44 #5008

Ufimceva, L. I.

A generalization of the additive problem of divisors. (Russian) *Mat. Zametki* 7 (1970), 477-482. (W. Schwarz) 43 #172

Ufimtsev, P. Ia. See Ufimcev, P. Ja.

Ufimtsev, P. J. See Ufimcev, P. Ja.

Ufliand, Ia. S. See Ufljand, Ja. S.

Ufljand, Ja. S.

* Интегральные преобразования в задачах теории упругости. (Russian) [Integral transforms in problems of elasticity theory] *Izdat. Akad. Nauk SSSR, Moscow*, 1963. 367 *pp.* (J. R. M. Radok) 29 #6681

The behaviour of stresses at an edge point of a wedge. (Russian) *Leningrad. Politehn. Inst. Trudy No.* 226 (1963), 109-113. (P. P. Teodorescu) 29 #4266

* (with Lebedev, N. N.; Skal′skaja, I. P.) Problems of mathematical physics. Revised, enlarged and corrected English edition; translated and edited by Richard A. Silverman. With a supplement by Edward L. Reiss. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1965. xi + 429 *pp.* (J. Mathews) 32 #3308

* (with Lebedev, N. N.; Skal′skaja, I. P.) Problems in mathematical physics. Translated by A. R. M. Robson. Translation edited by J. Reinfelds. *Pergamon Press, Oxford-Edinburgh-New York-Paris*, 1966. viii + 406 *pp.* (J. Mathews) 33 #6873

(with Lozanovskaja, I. T.) A class of problems in mathematica physics with a mixed eigenvalue spectrum. *Dokl. Akad. Nauk SSSR* 164 (1965), 1005-1007 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 918-919. (C. H. Wilcox) 33 #7689

(with Ruhovets, A. N.) On a class of dual integral equations and their applications to the theory of elasticity. *Prikl. Mat. Meh.* 30 (1966), 271-277 *(Russian); translated as J. Appl. Math. Mech.* 30 (1966), 334-341 (1967). (R. P. Srivastav) 36 #631

(with Belova, N. A.) The eigenfunction expansion of a singular boundary value problem for Legendre's equation. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1397-1399. (H. Baumgärtel) 37 #1684

(with Efimova, I. T.) A generalization of Fourier's integral theorem and its applications. *Prikl. Mat. Meh.* 33 (1969), 941-944 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 920-923 (1970), (J. Hersch) 41 #5887

(with Efimova, I. T.) The torsion of composite cylindrical rods. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Meh.* 23 (1970), *no.* 3, 59-65. (P. P. Teodorescu) 44 #4967 (with Belova, N. A.) Torsion of a truncated hyperboloid. *Prikl. Mat. Meh.* 34 (1970), 349-354 *(Russian); translated as J. Appl. Math. Mech.* 34 (1970), 329-335. (H. R. Aggarwal) 43 #827

Uflyand, Ya. S. See Ufljand, Ja. S.

Ufnarovskaja, T. P.

Certain questions on the theory of continuous quasigroups. (Russian) *Studies in General Algebra. No. 1 (Russian), pp.* 82-87. *Kišinev. Gos. Univ., Kishinev,* 1968. (G. E. Dimitroff) 41 #1913

Uginčius, Peter

Acoustic-ray equations for a moving, inhomogeneous medium. *J. Acoust. Soc. Amer.* 37 (1965), 476-479. (E. T. Kornhauser) 30 #5648

(with Schwiderski, E. W.; Lugt, H. J.) Axisymmetric viscous fluid motions around conical surfaces. *SIAM J. Appl. Math.* 14 (1966), 191-208. (K. Stewartson) 33 #945

Ugodčikov, A. G.

The construction of conformal mappings by electric simulation and by Lagrange interpolation polynomials. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraîn. RSR* 1963, 1424-1427. (Author's summary) 29 #2944

* Построение конформно отображающих функций при ромощи электромоделирования и интерполяционных полиномов Лагранжа. (Russian) [Construction of functions yielding conformal mappings, by means of electro-modelling and the Lagrange interpolation polynomials] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1966. 77 *pp.* (Hana Švecová) 34 #2847

Differentiation of functions which realize an approximate conformal mapping. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 8 (63), 76-81. (H. Švecová) 36 #2789

Ugowski, H.

On integro-differential equations of parabolic and elliptic type. *Ann. Polon. Math.* 22 (1969/70), 255-275. (M. I. Imanaliev) 42 #6566

(with Besala, P.) Some uniqueness theorems for solutions of parabolic and elliptic partial differential equations in unbounded regions. *Colloq. Math.* 20 (1969), 127-141. (Moshe Marcus) 39 #1805

On integro-differential equations of parabolic type. *Ann. Polon. Math.* 25 (1971), 9-22. (D. Ramakrishna Rao) 44 #7245

Ugrin-Šparac, Dimitrije

Some number theoretic applications of certain polynomials related to Bernoulli polynomials. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 259-276. (J. H. Jordan) 41 #1664

On a number-theoretic function. *Mathematica (Cluj)* 11(34) (1969), 167-170. (G. K. White) 41 #5290

A generalization of Taylor's formula and its application in elementary theory of distributions. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 71-80. (J. N. Pandey) 43 #2170

Lower bounds for sums of powers of different natural numbers expressed as functions of the sum of these numbers. *J. Reine Angew. Math.* 245 (1970), 74-80. (M. Mikolás) 43 #3228

Ugulava, D. K.

The approximation of vectors in three-dimensional space. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 47 (1967), 257-262. (V. P. Havin) 36 #3996

Estimates of harmonic polynomials in space. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 49 (1968), 533-538. (F. Barański) 37 #5414

The approximation in the mean of functions that are harmonic in the unit ball. (Russian) *Sakharth. SSR Mecn. Akad. Gamothvl. Centr. Šrom.* 9 (1970), *no.* 3, 91-96. (L. I. Hedberg) 44 #5672

On the theory of approximation by hyperspherical polynomials. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 58 (1970), 285-288. (G. G. Lorentz) 43 #5225

Uhans'ka, D. V.

(with Kazīmīrs'kiĭ, P. S.) Certain sufficient conditions for the decomposition of a polynomial matrix into linear factors. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 31 (1969), 51-53, 105. (G. M. Bergman) 43 #6235

Certain questions on the decomposition of a polynomial matrix into factors. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 31 (1969), 54-57, 105. (G. M. Bergman) 43 #6234

(with Kazīmīrs'kiĭ, P. S.) A criterion for the solvability of the equation $X^2 - A = 0$. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 44 (1970), 30-37, 210. (G. M. Bergman) 44 #2766

Uhde, Kurt

* spezielle Funktionen der mathematischen Physik. Tafeln I: Zylinderfunktionen. B - I-Hochschultaschenbücher, 55/55a. *Bibliographisches Institut, Mannheim,* 1964. viii + 267 *pp.* (John Todd) 29 #3676a

* Spezielle Funktionen der mathematischen Physik. Tafeln II: Elliptische Integrale. Thetafunktionen. Legendresche Polynome. Laguerresche Funktionen. Gammafunktion. Fresnelsche Integrale. Fehlerfunktion. Integralexponentielle u. a. B·I-Hochschultaschultaschenbücher, 76/76a. *Bibliographisches Institut, Mannheim,* 1964. viii + 211 *pp.* (John Todd) 29 #3676b

Uher, Jaromír

(with Preiss, David) A note on the first mean value theorem in integral calculus. (Czech. German summary) *Časopis Pěst. Mat.* 94 (1969), 199-201. (T. Šalát) 40 #5799

(with Preiss, David) A remark on the substitution theorem for the Riemann integral. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 345-347. (T. Šalát) 43 #6369

Uherka, David J.

Generalized Stieltjes integrals and a strong representation theorem for continuous linear maps on a function space. *Math. Ann.* 182 (1969), 60-66. (S. Goldberg) 40 #705

Uhl, J. J., Jr.

Orlicz spaces of finitely additive set functions, linear operators, and martingales. *Bull. Amer. Math. Soc.* 73 (1967), 116-119. (S. Heckscher) 35 #721

Orlicz spaces of finitely additive set functions. *Studia Math.* 29 (1967), 19-58. (S. Heckscher) 37 #1985

Applications of Radon-Nikodým theorems to martingales of vector valued functions. *Bull. Amer. Math. Soc.* 75 (1969), 840-842. (P. W. Millar) 39 #6375

Martingales of vector valued set functions. *Pacific J. Math.* 30 (1969), 533-548. (K. Krickeberg) 40 #1767

The Radon-Nikodym theorem and the mean convergence of Banach space valued martingales. *Proc. Amer. Math. Soc.* 21 (1969), 139-144. (L. L. Helms) 38 #6640

The range of a vector-valued measure. *Proc. Amer. Math. Soc.* 23 (1969), 158-163. (D. H. Tucker) 41 #8628

Compact operators on Orlicz spaces. *Rend. Sem. Mat. Univ. Padova* 42 (1969), 209-219. (G. O. Okikiolu) 40 #7838

The compactness of certain dominated operators. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1635-1637. (N. Dinculeanu) 41 #2452

Applications of Radon-Nikodým theorems to martingale convergence. *Trans. Amer. Math. Soc.* 145 (1969), 271-285. (P. W. Millar) 40 #4983

Vector integral operators. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 463-478. (M. de Guzmán) 44 #2103

Extensions and decompositions of vector measures. *J. London Math. Soc.* (2) 3 (1971), 672-676. (Erik G. F. Thomas) 44 #4181

Abstract martingales in Banach spaces. *Proc. Amer. Math. Soc.* 28 (1971), 191-194. (S. Kurepa) 44 #826

Uhlenbeck, George E.

(See Studies in statistical mechanics, 29 #1951 and 31 #4502)

(with Wang Chang, C. S.; de Boer, Jean) The heat conductivity and viscosity of polyatomic gases. *Studies in Statistical Mechanics, Vol. II, pp.* 241-268. *North-Holland, Amsterdam; Interscience, New York,* 1964. (R. Balescu) 29 #6881

(with Hemmer, P. C.) On critical phenomena in a van der Waals gas. *Statist. Mech. of Equilibrium and Non-equilibrium, Proc. Internat. Sympos., Aachen,* 1964, *pp.* 241-252. *North-Holland, Amsterdam,* 1965. (G. S. Joyce) 32 #7126

(with Fox, Ronald Forrest) Contributions to non-equilibrium thermodynamics. I. Theory of hydrodynamical fluctuations. *Phys. Fluids* 13 (1970), 1893-1902. (T. Koga) 42 #5521

Uhlenbeck, K.

Morse theory on Banach manifolds. *Bull. Amer. Math. Soc.* 76 (1970), 105-106. (D. E. Sanderson) 40 #6596

Integrals with nondegenerate critical points. *Bull. Amer. Math. Soc.* 76 (1970), 125-128. (M. Klingmann) 40 #8080

Harmonic maps; a direct method in the calculus of variations. *Bull. Amer. Math. Soc.* 76 (1970), 1082-1087. (J. Eells) 41 #9305

Uhlenbrock, D. A.

(with Tani, Smio) Hard core produced by orthogonality constraints. *J. Mathematical Phys.* 3 (1962), 1161-1170. (S. Rosendorff) 29 #1914

Properties of quantum statistical expectation values. *J. Mathematical Phys.* 7 (1966), 885-893. (H. Araki) 33 #2323

Perturbation of statistical semigroups in quantum statistical mechanics. *J. Mathematical Phys.* 12 (1971), 2503-2512. (K. Kumar) 44 #5063

Uhlenbusch, J.

(with Fucks, W.) Hydromagnetische Lagertheorie. (English and Russian summaries) *Z. Angew. Math. Mech.* 43 (1963), 553-560. (H. Hasimoto) 29 #6774

Uhlhorn, Ulf

(with Fröman, P. O.; Jakab, G.) On the hydrodynamical background of Heller's unmixing demonstration. *Ark. Fys.* 31 (1966), 271-280. (W. H. Reid) 34 #8712

Uhlíř, M.

(with Winternitz, P.; Smorodinskiĭ, Ja. A.) On relativistic angular momentum theory. *Jadernaja Fiz.* 1 (1965), 163-172 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 113-119. (Authors' summary) 34 #5474 (with Friš, J.; Mandrosov, V.; Smorodinskiĭ, Ja. A.; Winternitz, P.) On higher symmetries in quantum mechanics. *Phys. Lett.* 16 (1965), 354-356. (J. M. Jauch) 32 #5212

(with Winternitz, P.; Smorodinskiĭ, Ja. A.; Friš, I.) Symmetry groups in classical and quantum mechanics. *Jadernaja Fiz.* 4 (1966), 625-635 *(Russian); translated as Soviet J. Nuclear Phys.* 4 (1967), 444-450. (R. Delbourgo) 35 #2576

Uhlmann, Armin

Bemerkungen zu einem Satz von Reeh und Schlieder. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 13 (1964), 235-236. (H. Araki) 32 #5138

Group structures with intrinsic mass splitting. *High Energy Phys. Theory Elem. Particles (Internat. School Theoret. Phys., Yalta,* 1966) *(Russian), pp.* 313-317. *"Naukova Dumka", Kiev,* 1967. (L. O'Raifeartaigh) 39 #2414

On formal crossing. *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna,* 1968), *pp.* 75-78. *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (N. Mukunda) 41 #6493

(with Lassner, G.) On positive functionals on algebras of test functions for quantum fields. *Comm. Math. Phys.* 7 (1968), 152-159. (H. Ezawa) 37 #3822

Uhlmann, Werner

Ranggrössen als statistische Schätzfunktionen. *Z. Angew. Math. Mech.* 43 (1963), *suppl.*, T50-T51. (H. L. Harter) 32 #6617

Mittelwerte und ihre Schätzfunktionen bei zirkulären zufälligen Variablen. (English summary) *Metrika* 8 (1964), 25-47. (N. H. Kuiper) 32 #4778

* Statistische Qualitätskontrolle: Eine Einführung. Leitfäden der angewandten Mathematik und Mechanik, Band 7. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1966. 220 pp. (K. Medin) 34 #918

Vergleich der hypergeometrischen mit der Binomial-Verteilung. (English summary) *Metrika* 10 (1966), 145-158. (H. E. Reinhardt) 33 #5042

Kosten-optimale Prüfpläne für die Gut-Schlecht-Prüfung. (English summary) *Metrika* 13 (1968), 206-224. (Author's summary) 38 #2880

U Hong-chu

A variational method for equations of generalized positive operators. I. (Korean. Russian summary) *Cho-sŏn In-Min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1966, *no.* 1, 11-13. (Author's summary) 36 #3504

A variational method for equations of generalized positive operators. II. (Korean. Russian summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1966, *no.* 2, 3-4. (Author's summary) 36 #3505

U Hong Zsu. See U Hong-chu.

Uhovskiĭ, M. R.

An axially symmetric problem with initial data for the equations of motion of an ideal incompressible fluid. (Russian) *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza* 1967, *no.* 3, 3-12. (S. Raman) 36 #3537

(with Judovič, V. I.) Axially symmetric flows of ideal and viscous fluids filling the whole space. *Prikl. Mat. Meh.* 32 (1968), 59-69 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 52-61. (W. F. Ames) 39 #650

Ui, Tetsuo

Some properties of the management systems and the theory of graphs. *Mem. Osaka Inst. Tech. Ser. A* 15 (1971), 85-94. 44 #1415

Description and optimal control of the discrete management systems. *Mem. Osaka Inst. Tech. Ser. A* 15 (1971), 95-104. 44 #1416

Ujihara, Masako. See Ujihara Fukuda, M.

Ujihara Fukuda, M.

Obstructions to locally flat embeddings of bounded combinatorial manifolds. *Proc. Japan Acad.* 42 (1966), 438-440. (R. H. Szczarba) 36 #4569

Immersed knot cobordism and immersion. *Quart. J. Math. Oxford Ser.* (2) 20 (1969), 409-429. (R. Schultz) 40 #8061

Ukai, Seiji

Eigenvalues of the neutron transport operator for a homogeneous finite moderator. *J. Math. Anal. Appl.* 18 (1967), 297-314. (A. Leonard) 35 #1316

Solution of monoenergetic neutron transport equation for a finite slab by Laplace transformation. *J. Math. Anal. Appl.* 27 (1969), 323-337. (A. Leonard) 39 #7917

Asymptotic distribution of eigenvalues of the kernel in the Kirkwood-Riseman integral equation. *J. Mathematical Phys.* 12 (1971), 83-92. (D. B. Fairlie) 43 #842

Ukashah, Walid

(with Kennedy, E. S.) al-Khwārizmī's planetary latitude tables. *Centaurus* 14 (1969), 86-96. (Y. Dold) 41 #1476

Ukhovskii, M. R. See Uhovskiĭ, M. R.

Ukidave, V. H.

(with Rao, P. R. P.) Some separable forms of the Riccati equation. *Amer. Math. Monthly* 75 (1968), 38-39. (F. Max Stein and Robert Haaheim) 37 #1669

Ukšanović, Jovan B.

Certain properties of the linear correlation coefficient. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 4(19) (1967), 24 246. (L. Schmetterer) 37 #3607

The linear correlation coefficient and the nonlinear correl tion. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 6(21) (1969), 43-45. (T. T. Tonkov) 41 #6370

Pearson quotient and independence of random variables. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 6(21) (1969), 46-48. (E. Seneta) 41 #1095

Ula, Nurul

(with Kim, M.) An empirical Bayes approach to adaptive control. *J. Franklin Inst.* 280 (1965), 189-204. 32 #1058

Ulam, Stanislaw M.

* Problems in modern mathematics. *Science Editions [John Wiley & Sons, Inc.], New York,* 1964. xvii + 150 *pp.* (Editors) 43 #6031

(with Stein, P. R.) Non-linear transformation studies on electronic computers. *Rozprawy Mat.* 39 (1964), 66 *pp.* (R. W. Hamming) 29 #6666

Computers. *Sci. Amer.* 211 (1964), 202-216. (Editors) 29 #3007

Combinatorial analysis in infinite sets and some physical theories. *SIAM Rev.* 6 (1964), 343-355. (H. Freudenthal) 30 #1067

(with Everett, C. J.) On some possibilities of generalizing the Lorentz group in the special relativity theory. *J. Combinato Theory* 1 (1966), 248-270. (A. F. Monna) 33 #7075

(with Meisters, G. H.) On visual hulls of sets. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 1172-1174. (R. C. James) 35 #4707

* (with Kac, Mark) Mathematics and logic: Retrospect and prospects. *Frederick A. Praeger, Publishers, New York-London,* 1968. x + 170 *pp.* (H. B. Curry) 38 #964

Computations on certain binary branching processes. *Computers in Mathematical Research, pp.* 168-171. *North-Holland, Amsterdam,* 1968. (From the author's introduction) 38 #2037

(with Beyer, W. A.) Note on the visual hull of a set. *J. Combinatorial Theory* 4 (1968), 240-245. (G. H. Meisters) 37 #1964

(with Erdős, Paul) On equations with sets as unknowns. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1189-1195. (A. H. Stone) 38 #3152

(with Mycielski, Jan) On the pairing process and the notion of genealogical distance. *J. Combinatorial Theory* 6 (1969), 227-234. (P. Holgate) 38 #6854

Reminiscences from the Scottish Café. (Polish) *Wiadom. Mat.* (2) 12, 49-58 (1969). (2 *plates*) 39 #6726

(with Erdős, P.) Some probabilistic remarks on Fermat's last theorem. *Rocky Mountain J. Math.* 1 (1971), *no.* 4, 613-616. (W. J. LeVeque) 44 #2724

Ulanov, M. P.

Linear functionals on certain spaces of abstract functions. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 402-409. (J. L. B. Cooper) 37 #3328

Vector-valued set functions and the representation of continu linear mappings. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 410-425. (B. Walsh) 37 #746

Ulanovskiĭ, M. A.

Stationary motions of affine connections. (Russian) *Mat. Sb. (N.S.)* 62(104) (1963), 249-263. (G. Vranceanu) 34 #8331

Geodesics and minimal curves of an invariant metric of a linear group. (Russian) *Ukrain. Geometr. Sb. Vyp.* 1 (1965), 107-113. (A. Urban) 35 #3602

Curvature and torsion tensors of spaces with affine connection. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 130-137. (M. C. Chaki) 35 #6085

Riemannian metrics with prescribed curvature tensor field. (Russian) *Ukrain. Geometr. Sb. Vyp.* 4 (1967), 99-101. (A. Fedenko (RŽMat 1968 #10 A484)) 40 #6447

Homomorphisms of spaces with affine connection. (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 171-176. (A. Goetz) 43 #54

Ulanovsky, M. A. See Ulanovskiĭ, M. A.

Ulašev, B.

A certain extremal integro-differential equation with retarded argument. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 4, 36-41. (D. Przeworska-Rolewicz) 43 #5129

The existence of the solution of extremal differential equations with selfregulated lag that is not solved with respect to the derivative. (Russian) *Boundary Value Problems for Differential Equations,* 1 *(Russian), pp.* 139-145. *Izdat. "Fan" Uzbek SSR, Tashkent,* 1971. (G. S. Ladde) 44 #5592 drick, J. P.

(with Siekmann, J.) On the swimming of a flexible plate of arbitrary finite thickness. *J. Fluid Mech.* 20 (1964), 1-33. (K. B. Ranger) 29 #6719

(with Reece, J. W.; Siekmann, J.) Some recent developments in sea animal locomotion hydordynamics. *Developments in Theoret. and Appl. Mech. Vol.* 2 *(Proc. Second Southeastern Conf., Atlanta, Ga.,* 1964), *pp.* 337-349. *Pergamon, Oxford,* 1965. (Authors' summary) 30 #5556

dukytė, V.

* (with Glembockis, J.; Karazija, R.; Strockytė, T.; Vizbaraitė, J.) Tables of $9j$-coefficients for integral values of the parameters with one parameter equal to unity. English and Russian texts. Editor A. Jucys. Academy of Sciences of Lithuanian SSR. Institute of Physics and Mathematics. Academy of Sciences USSR. Computing Center. *Computing Center AS USSR, Moscow,* 1968. xxviii + 552 *pp.* (C. Froese Fischer) 39 #7912

ehla, Ivan

(with Navrátil, Emil) Computation of some integrals involving Hermite polynomials. (Czech. Russian and English summaries) *Apl. Mat.* 8 (1963), 385-391. (Authors' summary) 31 #5939

(with Blank, J.) Solution of the Bethe-Goldstone equation for the reaction matrix in finite nuclei. *Czechoslovak J. Phys. Sect. B* 15 (1965), 797-823. (K. Kumar) 32 #7082

(with Wiesner, Jan) Remark to the problem of eigenvalues of Schrödinger equation. *Apl. Mat.* 15 (1970), 352-355. (E. Müller-Pfeiffer) 42 #2083

lina, G. V.

The range of values of a certain system of functionals in the class of schlicht functions with real coefficients. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 342-350. (T. Kubo) 43 #7619

itko, A. F.

On the representation of functions as integrals of the associated Legendre polynomial of second order $Q^{i\tau}_{n-1/2}(\cosh \xi)$. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 640-643. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 33 #2834

(with Položiĭ, G. M.) On inversion formulae for the fundamental formulae for the fundamental integral representation of p-analytic functions with characteristic $p = x^k$. (Russian) *Prikladna. Meh.* 1 (1965), *vyp.* 1, 39-51. 32 #2567

lītko, A. T.

(with Vovkodav, Ī. P.) A generalization of the Weyl-Lebedev-Skal'skaja integral transform. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 199-202, 283. (V. Komkov) 42 #8193

l'janov, P. L.

On the convergence to +∞ of orthogonal series and their generalization. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 216-220. *Fizmatgiz, Moscow,* 1961. (J.-P. Kahane) 33 #3042

(See also Alexits, G., 36 #1912)

Series with respect to a Haar system with monòtone coefficients. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 925-950. (K. Tandori) 29 #3820

On the approximation of functions. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 418-437. (G. Goes) 29 #417

Series with respect to a Haar system. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962) *(Russian), pp.* 397-406. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (I. M. Sheffer) 33 #6272

(with Steckin, S. B.) Subsequences of convergence of series. (Russian) *Trudy Mat. Inst. Steklov.* 86 (1965), 1-83. (S. Mandelbrojt) 34 #6422

Haar series. (Russian. English summary) *Vestnik Moskov.-Univ. Ser. I Mat. Meh.* 1965, *no.* 4, 35-43. (R. F. Gundy) 32 #8033

Absolute and unconditional convergence. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 536-538. (J. Musielak) 33 #4574

* (with Steckin, S. B.) Sequences of convergence for series. Translated from the Russian by G. Piranian. Proceedings of the Steklov Institute of Mathematics, No. 86 (1965). *American Mathematical Society, Providence, R. I.,* 1967. v + 85 *pp.* (Editors) 35 #4661

Absolute and uniform convergence of Fourier series. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 193-225. (S. Verblunsky) 34 #6431

Some properties of series with respect to the Haar system. (Russian) *Mat. Zametki* 1 (1967), 17-24. (I. M. Sheffer) 34 #8070

Imbedding of certain classes of functions. (Russian) *Mat. Zametki* 1 (1967), 405-414. (J. Mařík) 35 #2136

(with Nikišin, E. M.) On absolute and unconditional convergence. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 3 (135), 240-242. (S. Verblunsky) 35 #3359

(with Men'sov, D. E.) The metric theory of functions at Moscow University during the last fifty years. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 5, 24-36. (J. Mařík) 36 #2450

The imbedding of certain classes of functions of a single variable. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 1259-1262. (G. Goes) 36 #6929

The embedding of certain classes H_p^{ω} of functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 649-686. (G. W. Hedstrom) 37 #6749

Imbedding theorems and best approximations. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 1044-1047. (G. Wildenhain) 39 #4665

(with Men'šov, D. E.) The problem of the representation of functions by series. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 2, 30-40. (K. Karták) 42 #4947

Certain properties of series in Schauder's system. (Russian) *Mat. Zametki* 7 (1970), 431-442. (S. A. Alimov) 42 #4949

Weierstrass theorems for functions of class $\phi(L)$. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 1030-1033. (G. Albinus) 43 #5232

Ul'janova, V. I.

(with Abramov, A. A.) On the solution of the equation for the energy of the ionized hydrogen molecule. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 351-354. (E. L. Hill) 31 #3126

Ullah, N. See Nazakat Ullah.

Ullah, Nazakat. See Nazakat Ullah.

Ullersma, P.

An exactly solvable model for Brownian motion. I. Derivation of the Langevin equation. *Physica* 32 (1966), 27-55. (R. J. Rubin) 33 #7058a

An exactly solvable model for Brownian motion. II. Derivation of the Fokker-Planck equation and the master equation. *Physica* 32 (1966), 56-73. (R. J. Rubin) 33 #7058b

An exactly solvable model for Brownian motion. III. Motion of a heavy mass in a linear chain. *Physica* 32 (1966), 74-89. (R. J. Rubin) 33 #7058c

An exactly solvable model for Brownian motion. IV. Susceptibility and Nyquist's theorem. *Physica* 32 (1966), 90-96. (R. J. Rubin) 33 #7058d

Ullian, Joseph S.

(with Ginsburg, Seymour; Hibbard, Thomas N.) Sequences in context free languages. *Illinois J. Math.* 9 (1965), 321-337. (R. W. Ritchie) 34 #2467

Failure of a conjecture about context free languages. *Information and Control* 9 (1966), 61-65. (Author's summary) 32 #9174

(with Ginsburg, Seymour) Ambiguity in context free languages. *J. Assoc. Comput. Mach.* 13 (1966), 62-89. (Authors' summary) 36 #2446

(with Ginsburg, Seymour) Preservation of unambiguity and inherent ambiguity in context-free languages. *J. Assoc. Comput. Mach.* 13 (1966), 364-368. (J. A. Schatz) 34 #1119

(with Hibbard, Thomas N.) The independence of inherent ambiguity from complementedness among context-free languages. *J. Assoc. Comput. Mach.* 13 (1966), 588-593. (S. Ginsburg) 34 #2377

Partial algorithm problems for context free languages. *Information and Control* 11 (1967), 80-101. (S. Ginsburg) 37 #1205

Is any set theory true? *Philos. Sci.* 36 (1969), 271-279. (M. Boffa) 40 #4098

Three theorems concerning principal AFLs. *J. Comput. System Sci.* 5 (1971), 304-314. (P. Deussen) 43 #5761

Ullman, Jeffrey D.

Decoding of cyclic codes using position invariant functions. *IBM J. Res. Develop.* 9 (1965), 233-240. (Author's summary) 31 #4651

(with Hopcroft, J. E.) An approach to a unified theory of automata. *Bell System Tech. J.* 46 (1967), 1793-1829. (S. Ginsburg) 38 #4218

(with Hopcroft, J. E.) Sets accepted by one-way stack automata are context sensitive. *Information and Control* 13 (1968), 114-133. (Authors' summary) 38 #5529

(with Hopcroft, J. E.) Decidable and undecidable questions about automata. *J. Assoc. Comput. Mach.* 15 (1968), 317-324. (Authors' summary) 38 #5530

(with Hopcroft, John E.) Relations between time and tape complexities. *J. Assoc. Comput. Mach.* 15 (1968), 414-427. (Authors' summary) 38 #4219

(with Hopcroft, J. E.) Deterministic stack automata and the quotient operator. *J. Comput. System Sci.* 2 (1968), 1-12. (H. Maurer) 40 #8518

(with Aho, Alfred V.) The theory of languages. *Math. Systems Theory* 2 (1968), 97-125. (J. Gruska) 38 #6907

* (with Hopcroft, John E.) Formal languages and their relation to automata. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1969. x + 242 *pp.* (S. Ginsburg) 38 #5533

(with Weiner, Peter) Uniform synthesis of sequential circuits. *Bell System Tech. J.* 48 (1969), 1115-1127. (Authors' summary) 39 #3914

(with Hopcroft, J. E.) Some results on tape-bounded Turing machines. *J. Assoc. Comput. Mach.* 16 (1969), 168-177. (Authors' summary) 39 #8022

Halting stack automata. *J. Assoc. Comput. Mach.* 16 (1969), 550-563. (Author's summary) 40 #1207

(with Aho, A. V.) Syntax directed translations and the pushdown assembler. *J. Comput. System Sci.* 3 (1969), 37-56. (D. Vaida) 39 #2544

(with Aho, A. V.) Properties of syntax directed translations. *J. Comput. System Sci.* 3 (1969), 319-334. (R. See) 40 #5355

(with Aho, A. V.; Hopcroft, J. E.) A general theory of translation. *Math. Systems Theory* 3 (1969), 193-221. (D. Vaida) 40 #4017

(with Sethi, Ravi) The generation of optimal code for arithmetic expressions. *J. Assoc. Comput. Mach.* 17 (1970), 715-728. (Authors' summary) 43 #1475

(with Aho, A. V.; Hopcroft, J. E.) On the computational power of pushdown automata. *J. Comput. System Sci.* 4 (1970), 129-136. (H. Maurer) 42 #1595

(with Aho, A. V.) A characterization of two-way deterministic classes of languages. *J. Comput. System Sci.* 4 (1970), 523-538. (K. S. Fu) 42 #2891

(with Aho, Alfred V.; Denning, Peter J.) Principles of optimal page replacement. *J. Assoc. Comput. Mach.* 18 (1971), 80-93. (B. Gluss) 44 #3686

Ullman, Joseph L.

(with Titus, C. J.) An integral inequality with applications to harmonic mappings. *Michigan Math. J.* 10 (1963), 181-192. (John W. Green) 29 #3653

A class of weight functions for which Tchebycheff quadrature is possible. *Bull. Amer. Math. Soc.* 72 (1966), 1073-1075. (R. A. Valentin) 34 #4766

A class of weight functions that admit Tchebycheff quadrature. *Michigan Math. J.* 13 (1966), 417-423. (E. W. Cheney) 34 #5290

A problem of Schmidt and Spitzer. *Bull. Amer. Math. Soc.* 73 (1967), 883-885. (I. I. Hirschman, Jr.) 36 #3056

A criterion for arcsine distribution. *J. Math. Mech.* 16 (1967), 1165-1176. (H. Widom) 35 #401

(with Lyndon, R. C.) Groups of elliptic linear fractional transformations. *Proc. Amer. Math. Soc.* 18 (1967), 1119-1124. (A. M. Macbeath) 36 #5234

On weighted Tchebycheff polynomials. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill., 1967), pp.* 51-53. *Southern Illinois Univ. Press, Carbondale, Ill.*, 1968. (A. A. Armendáriz) 40 #612

(with Lyndon, R. C.) Pairs of real 2-by-2 matrices that generate free products. *Michigan Math. J.* 15 (1968), 161-166. (A. M. Macbeath) 37 #4173

(with Lyndon, R. C.) Groups generated by two parabolic linear fractional transformations. *Canad. J. Math.* 21 (1969), 1388-1403. (L. Greenberg) 41 #3620

Toeplitz matrices associated with a semi-infinite Laurent series. *Proc. London Math. Soc.* (3) 22 (1971), 164-192. (H. Widom) 44 #1981

(with Kahaner, David K.) Equal weight quadrature on infinite intervals. *SIAM J. Numer. Anal.* 8 (1971), 75-79. (J. B. Butler, Jr.) 44 #4902

Ullman, Nelly

(with Ullman, Robert) Numerical solutions of singular Fredholm equations. *J. Mathematical Phys.* 7 (1966), 1743-1748. (Authors' summary) 36 #3524

Ullman, Robert

(with Ullman, Nelly) Numerical solutions of singular Fredholm equations. *J. Mathematical Phys.* 7 (1966), 1743-1748. (Authors' summary) 36 #3524

Ullom, S.

Galois cohomology of ambiguous ideals. *J. Number Theory* 1 (1969), 11-15. (H. Yokoi) 38 #5755

Normal bases in Galois extensions of number fields. *Nagoya Math. J.* 34 (1969), 153-167. (H. Yokoi) 39 #1436

A note on the classgroup of integral group rings of some cyclic groups. *Mathematika* 17 (1970), 79-81. (H. K. Farahat) 42 #4650

Integral normal bases in Galois extensions of local fields. *Nagoya Math. J.* 39 (1970), 141-148. (W.-D. Geyer) 41 #8390

Ullrich, David F.

(with Coffman, C. V.) On the continuation of solutions of a certain non-linear differential equation. *Monatsh. Math.* 71 (1967), 385-392. (J. S. W. Wong) 37 #3078

(with Marlin, J. A.) Periodic solutions of second order nonlinear differential equations without damping. *SIAM J. Appl. Math.* 16 (1968), 998-1010. (W. S. Loud) 39 #552

Boundary value problems for a class of nonlinear second-order differential equations. *J. Math. Anal. Appl.* 28 (1969), 188-210. (K. Kreith) 39 #7203

Ullrich, Milan

(with Kubát, Libor) A generalized approach to fault-finding procedures. (Czech summary) *Kybernetika (Prague)* 2 (1966), 48-53. (Authors' summary) 33 #7112

A note on adaptive control systems. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 605-610. *Academia, Prague*, 1967. (H. J. Kushner) 38 #1934

(with Driml, Miloslav) Maximum likelihood estimate of the number of types. (Russian summary) *Acta Tech. ČSAV* 12 (1967), 300-303. (M. Skibinsky) 40 #990

(with Žaludová, A. H.; Řezný, Z.) A survey of some recent Czechoslovak work in automatic statistical process control. *J. Appl. Probability* 5 (1968), 43-54. (Authors' summary) 37 #1187

(with Hanš, Otto; Kubát, Libor) On optimal fault-finding strategy of element-measurement method for systems with exactly one failure. (Czech summary) *Kybernetika (Prague)* 6 (1970), 59-66. (A. P. Basu) 42 #7013

Ulm, S.

Iteration methods with second-order divided differences. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 56-58. (M. Altman) 31 #6374

A majorant principle and the method of secants. (Russian. Estonaian and English summaries) *Eesti NSV Tead. Akad. Toimetise Füüs.-Mat. Tehn.-tead. Seer.* 13 (1964), 217-227. (Author's summary) 29 #5369

A generalization of Steffensen's method for solving nonlinear operator equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1093-1097. (T. I. Seidman) 30 #3580

Algorithms of the generalized Steffensen method. (Russian. Estonian and German summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 14 (1965), 435-443. (H. J. Stetter) 33 #3457

A class of iteration methods with convergence speed of third order. (Russian. Estonian and German summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 14 (1965), 534-539. (J. M. Ortega) 34 #3782

Construction of algorithms for an approximate solution of certain problems of optimal control. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat. Tehn.-tead. Seer.* 15 (1966), 167-177. (Zita Poracká) 33 #5385

Solution of boundary value problems resulting from the maximum principle. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 16 (1967), 3-12. (H. Shintani) 35 #2495

Generalized divided differences. I, II. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Ma* 16 (1967), 13-26; 146-156. (R. Voigt) 35 #6330

Iteration methods with successive approximation of the inver operator. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 16 (1967), 403-411. (H. Shinta 36 #7323

(with Poll, V.) Certain methods for solving minimum problem (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 17 (1968), 151-163. (H. Shintani) 38 #859

Two-level optimization. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 3-13. (E. G. Gol'šteĭn) 43 #4473

Component-wise descent and hierarchic optimization. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 147-151. (Author's summary) 42 #8907

A conditional gradient method and a decomposition of optimal control problems. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 245-248. (G. M. Tenengol'c) 43 #1712

A certain method of synthesis of suboptimal controls. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 19 (1970), 150-158. *(loose errata)* (P. Neumann) 44 #6382

The decentralized control of a dynamical system. (Russian) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 19 (1970), 241-244. *(loose errata)* (R. N. Salija) 43 #3027

Ulmer, Friedrich

Satelliten und derivierte Funktoren. I. *Math. Z.* 91 (1966), 216-266. (A. Heller) 33 #2705

Properties of dense and relative adjoint functors. *J. Algebr* 8 (1968), 77-95. (M. Barr) 36 #5190; erratum, 38, p. 1376

Representable functors with values in arbitrary categories. *J. Algebra* 8 (1968), 96-129. (M. Barr) 36 #5191

On cotriple and André (co)homology, their relationship with classical homological algebra. *Sem. on Triples and Categorical Homology Theory (ETH, Zürich, 1966/67), pp.* 376-398. *Springer, Berlin*, 1969. (A. K. Bousfield) 39 #6952

Acyclic models and Kan extensions. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash., 1968, Vol. One), pp.* 181-204. *Springer, Berlin*, 1969. (G. M. Kelly) 41 #1840a

Kan extensions, cotriples and André (co)homology. *Category Theory, Homology Theory and their Applications, II (Battelle Institute Conference, Seattle, Wash., 1968, Vol. Two), pp.* 278-308. *Springer, Berlin*, 1969. (G. M. Kelly) 41 #1840b

The adjoint functor theorem and the Yoneda embedding. *Illinois J. Math.* 15 (1971), 355-361. (M. Tierney) 43 #7484

Ulmer, Milton

(with Noble, N.) Factoring functions on Cartesian products. *Trans. Amer. Math. Soc.* 163 (1972), 329-339. (R. Engelking) 44 #5917

Ulrich, Dolph

Solution to a problem posed by Kalicki. *Proc. Amer. Math. Soc.* 22 (1969), 728-729. (J. E. Fenstad) 39 #5316 lrich, John Wade

A characterization of planar oriented graphs. *SIAM J. Appl. Math.* 18 (1970), 364-371. (Author's summary) 41 #107

lugh Beg, Mirza Mahomed

(See Kary-Nijazov, T. N., 35 #8)

l'yanov, P. L. See Ul'janov, P. L.

manskiĭ, Ju. B.

(with Vaĭnikko, G. M.) Regular operators. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 87-88. (E. Gerlach) 37 #6778

manskiĭ, V. V.

(with Danilenko, P. Ja.) A method of minimization of functions of the algebra of logic. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 54 (1969), 45-48. (Authors' summary) 42 #2867

(with Danilenko, P. Ja.) A certain algorithm for optimal choice of logical operations in the design of digital systems. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 55 (1969), 45-48. (Authors' summary) 42 #1370

mar, Sarfaraz

On Fourier-effective matrix. *Indian J. Math.* 7 (1965), 25-30. (L. Lorch) 32 #7998

marov, S. U.

(See Ibn Sīna, Abū ʿAlī al-Husayn ibn ʿAbdallāh, 36 #2458)

mbetžanov, D. U.

On the question of periodic and quasi-periodic solutions of certain quasi-linear differential equations. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1965, *no.* 1, 54-64. (W. S. Loud) 32 #2678

An existence theorem for almost periodic solutions of differential equations in linear normed spaces. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 1, 38-44. (R. F. Matlak) 35 #1904

(with Kapišev, K. K.) The multiperiodic solutions of a certain class of integro-differential equations with small parameters. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 3, 32-38. (P. C. Das) 41 #5712

Periodic and almost periodic solutions, of a certain class of partial differential equations, which are holomorphic with respect to a parameter. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 3, 37-43. (T. Kusano) 41 #2193

The almost periodic solutions of a certain class of partial differential equations with small parameters. (Russian) *Differencial'nye Uravnenija* 6 (1970), 913-916. (E. Sánchez Palencia) 42 #6405

meda, Kenji

(with Soeda, Takashi) On the expected norm stability of a linear (time-variant) stochastic system. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 520-528. (Authors' summary) 42 #3377

Asymptotic stability of a linear stochastic system with piecewise constant parameters. (Japanese. English summary) *Res. Rep. Anan Tech. College No.* 7 (1971), 95-99. (Author's summary) 43 #8415

Umegaki, Hisaharu

(with Nakamura, Masahiro; Takesaki, M.) A remark on the expectations of operator algebras. *Kōdai Math. Sem. Rep.* 12 (1960), 82-90. (K. Krickeberg (Zbl 102, 108)) 40 #3325

(with Nakamura, Masahiro) Heisenberg's commutation relation and the Plancherel theorem. *Proc. Japan Acad.* 37 (1961), 239-242. (J. Wang) 29 #3579

General treatment of alphabet-message space and integral representation of entropy. *Kōdai Math. Sem. Rep.* 16 (1964), 18-26. (I. Csiszár) 29 #6962

A functional method for stationary channels. *Kōdai Math. Sem. Rep.* 16 (1964), 27-39. (I. Csiszár) 29 #6963a (E)

Supplement and correction to the preceding paper "A functional method for stationary channels". *Kōdai Math. Sem. Rep.* 16 (1964), 189-190. (I. Csiszár) 29 #6963b

Representations and extremal properties of averaging operators and their applications to information channels. *J. Math. Anal. Appl.* 25 (1969), 41-73. (H. Körezlioğlu) 40 #920

(with Bharucha-Reid, A. T.) Banach space-valued random variables and tensor products of Banach spaces. *J. Math. Anal. Appl.* 31 (1970), 49-67. (A. de Korvin) 41 #6263

Umemura, Hiroshi

Formal moduli for *p*-divisible groups. *Nagoya Math. J.* 42 (1971), 1-7. (M. Miyanishi) 44 #6712

Umemura, Yasuo

Nuclear extensions of Hilbert spaces and nuclear spaces. (Japanese) *Sûgaku* 15 (1963/64), 193-201. (K. Yosida) 30 #2321

On the infinite dimensional Laplacian operator. *J. Math. Kyoto Univ.* 4 (1964/65), 477-492. (J. Feldman) 31 #5102

Measures on infinite dimensional vector spaces. *Publ. Res. Inst. Math. Sci. Ser. A* 1 (1965), 1-47. (J. Feldman) 32 #4726

Carriers of continuous measures in a Hilbertian norm. *Publ. Res. Inst. Math. Sci. Ser. A* 1 (1965), 49-54. (M. Loève) 32 #8154

(with Kôno, Norio) Infinite dimensional Laplacian and spherical harmonics. *Publ. Res. Inst. Math. Sci. Ser. A* 1 (1965/66), 163-186. (J. Feldman) 34 #1578

Umezawa, Hiroomi

(with Takahashi, Yasushi; Kamefuchi, Susumu) The mass levels and the broken symmetry in terms of inequivalent representations. *Ann. Physics* 26 (1964), 336-363. (Authors' summary) 31 #1053

(with Kamefuchi, S.) Bose fields and inequivalent representations. (Italian summary) *Nuovo Cimento* (10) 31 (1964), 429-446. (Y. Takahashi) 29 #4463

(with Kamefuchi, S.) The mass of gauge particles and the self-consistent method of quantum field theory. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 448-468. (R. F. Streater) 29 #6831

(with Leplae, L.) Inequivalent representations and superconductivity. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 372-396. (D. A. Uhlenbrock) 33 #7040

Local conservation and the gauge invariance generated by Goldstone particles. *Nuovo Cimento* (10) 38 (1965), 1415-1419. (R. F. Streater) 33 #2217

(with Aurilia, A.) Theory of high-spin fields. *Phys. Rev.* (2) 182 (1969), 1682-1694. (S. Gudder) 41 #4918

Umezawa, M.

Invariant quantities in semi-simple groups. II. *Nuclear Phys.* 53 (1964), 54-64. (Author's summary) 31 #1324

Invariant quantities in semi-simple groups. III. *Nuclear Phys.* 57 (1964), 65-88. (R. Keown) 31 #6598

Invariant quantities in simple groups B_ω, C_ω and D_ω. I, II, III, IV. *Nederl. Akad. Wetensch. Proc. Ser. B* 69 (1966), 579-591, 592-606, 607-619, 620-628. (A. Kihlberg) 35 #297

(with Scheibling, F.) Invariant quantities in a simple group G_2. *Nederl. Akad. Wetensch. Proc. Ser. B* 73 (1970), 22-32. (Bruno Harris) 41 #1923

Umezawa, Toshio

On a model in the ordinal numbers. *J. Math. Soc. Japan* 17 (1965), 341-357. (B. van Rootselaar) 33 #34

On a model in the ordinal numbers. II. *Rep. Fac. Sci. Shizuoka Univ.* 1, 53-63 (1966). (B. van Rootselaar) 35 #5307

(with Reade, Maxwell O.) Some criteria for the multivalence of certain analytic functions. *Colloq. Math.* 16 (1967), 23-26. (M. S. Robertson) 35 #4397

A method of two-level simplification of Boolean functions. *Nagoya Math. J.* 29 (1967), 201-210. (A. A. Mullin) 34 #8889

An absolute simplification of Boolean functions. *Rep. Fac. Sci. Shizuoka Univ.* 2, 1-15 (1967). (J. Kuntzmann) 39 #6680

Umirbekov, A. U.

(with Abutaliev, È. B.; Sadullaev, R. S.) An approximate solution of a boundary value problem for an equation of elliptic type in a multiply connected domain by the Monte Carlo method. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 43 (1967), 142-158. 40 #8216

Umjarov, H. U.

Oscillations in systems with two degrees of freedom. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 24 (1964), 30-36. (J. M. Skowroński) 33 #6044

Certain oscillatory systems. (Russian) *Taškent. Politehn. Inst. Naučn. Trudy (N.S.) No.* 24 (1964), 37-43. (J. M. Skowroński) 33 #6045

Ummel, Brian R.

Some examples relating the deleted product to imbeddability. *Proc. Amer. Math. Soc.* 31 (1972), 307-311. (C. W. Patty) 44 #7533

Unbehauen, Rolf

Über ein neues Verfahren zur Auflösung von Polynomgleichungen. *Math.-Tech.-Wirtschaft* 10 (1963), 109-112. (R. B. Grafton) 30 #2663

Zur Synthese digitaler Filter. (English summary) *Arch. Elek. Übertr.* 24 (1970), 305-313. (S. Kullback) 44 #3757

Undalova, I. A.

One-parameter automorphism groups of type "B" in a space with affine connection. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 107-120. (L. Tamássy) 41 #6096

The one-parameter projective transformation groups of a space with affine connection. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 121-131. (L. Tamássy) 41 #6097

The stationary automorphism groups of spaces with affine connection. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 140-143. (L. Tamássy) 41 #6098

A geometric interpretation and a generalization of a certain theorem of Ljapunov. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 5 (72), 91-96. (L. K. Jackson) 37 #4314

The types of one-parameter groups of projective transformations of a space with affine connection. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 5 (96), 96-106. (A. Goetz) 43 #5449

Underwood, Douglas H.
On some uniqueness questions in primary representations of ideals. *J. Math. Kyoto Univ.* 9 (1969), 69-94. (L. J. Ratliff, Jr.) 40 #134

Underwood, Richard
(with Golub, Gene H.) Stationary values of the ratio of quadratic forms subject to linear constraints. (Italian summary) *Z. Angew. Math. Phys.* 21 (1970), 318-326. (J. D. P. Donnelly) 42 #7056

Undy, G. C.
(with Brewer, K. R. W.) Samples of two units drawn with unequal probabilities without replacement. *Austral. J. Statist.* 4 (1962), 89-100. (C. Hayashi) 31 #6332

Ungar, Gerald S.
Local homogeneity. *Duke Math. J.* 34 (1967), 693-700. (P. S. Mostert) 36 #869
Pseudoregular mappings. *Colloq. Math.* 19 (1968), 225-229. (E. Hemmingsen) 37 #3542
Light fiber maps. *Fund. Math.* 62 (1968), 31-45. (M. L. Marx) 36 #7140
A pathological fiber space. *Illinois J. Math.* 12 (1968), 623-625. (A. H. Clark) 38 #2782
Spaces of homeomorphisms. *Portugal. Math.* 27 (1968), 67-73. (J. E. Keesling) 41 #6193
Conditions for a mapping to have the slicing structure property. *Pacific J. Math.* 30 (1969), 549-553. (J. W. Rutter) 40 #3550
Completely regular maps, fiber maps and local n-connectivity. *Proc. Amer. Math. Soc.* 21 (1969), 104-108. (H. Wada) 39 #7601

Ungar, Peter
Stable Hill equations. *Comm. Pure Appl. Math.* 14 (1961), 707-710. (R. Gusarova (RŽMat 1963 #10 B183)) 31 #423
Bloch circles of univalent functions. *Comm. Pure Appl. Math.* 18 (1965), 313-318. (M. Reade) 30 #4927
The theorem of Coles on uniform distribution. *Comm. Pure Appl. Math.* 20 (1967), 609-618. (B. Volkmann) 35 #4171

Unger, Heinz
(See Colloquium über Schaltkreis- und Schaltwerk-Theorie, 30 #4631; Funktionalanalysis, Approximationstheorie, numerische Mathematik (Oberwolfach, 1965), 36 #4772; Colloquium über Automatentheorie, Drittes (Hannover, 1965), 36 #4919; Numerische Mathematik, 42 #7; Grundzüge der Mathematik, 38 #957; and Funktionalanalytische Methoden der numerischen Mathematik, 40 #2207)
* (with Pflaumann, Erika) Funktionalanalysis. Band I. B. I.-Hochschultaschenbücher, Band 82/82a. *Bibliographisches Institut, Mannheim,* 1968. 240 *pp.* (1 *foldout*) (R. D. McWilliams) 39 #1932

Unger, Stephen H.
(with Paull, Marvin C.) Structural equivalence of context-free grammars. *J. Comput. System Sci.* 2 (1968), 427-463. (H. Maurer) 39 #2548

Ungureanu-David, Elena
The application of a semi-inverse method to motions with a free surface in subterranean hydrodynamics. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 11 (1962), *no.* 34, 243-251. (J. V. Wehausen) 30 #5795
On the theory of interference of sources in homogeneous porous media. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 677-681. (Author's summary) 30 #5665
On a three-dimensional motion in inhomogeneous porous media. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 683-688. (Author's summary) 31 #1001
A method of approximating the solutions of the equations of Boussinesq. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 909-913. (P. K. Ghosh) 33 #8159
Sur le mouvement des fluides dans les milieux poreux non homogènes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A181-A183. (S. A. Berger) 39 #7872
A uniqueness proof for a class of fluid motions through inhomogeneous porous media. (French summary) *Z. Angew. Math. Phys.* 21 (1970), 1088-1093. (J. C. Burns) 44 #2413

Ungurjan, S. G.
The use of optimal Ljapunov functions for the solution of discontinuous variational problems. (Russian) *Complex Systems of Control, No.* 3 *(Russian), pp.* 26-36. *Naukova Dumka, Kiev,* 1967. (J. Burlak) 39 #5200

Uninskiĭ, A. P.
Imbedding theorems for a class of functions with a mixed norm. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 806-808. (J. Albrycht) 33 #1721

Unna, I.
(with Weneser, J.) The number problem in Bardeen-Cooper-Schrieffer and random-phase-approximation nuclear calculations. *Phys. Rev.* (2) 137 (1965), B1455-B1465. (Y. Nogami) 32 #3662

Unni, K. Raman
Hankel transforms and entire functions. *Bull. Amer. Math. Soc.* 71 (1965), 511-513. (E. Riekstiņš) 30 #5131
Weighted entire functions. *Bull. Amer. Math. Soc.* 71 (1965), 514-516. (E. Riekstiņš) 30 #4947
On generalized powers of the difference operator. *Canad. J. Math.* 17 (1965), 124-129. (S. M. Shah) 30 #2245
(with Rahman, Q. I.) Extremal problems and polynomials of least deviation. *Scripta Math.* 27, 303-329 (1966). (R. E. Edwar 33 #6219
Inequalities for weighted entire functions. *Tôhoku Math. J.* (2) 18 (1966), 274-282. (S. K. Bose) 34 #2886
Functions of exponential type. *Symposia on Theoretical Physics and Mathematics, Vol.* 6 *(Inst. Math. Sci. Fourth Anniversary Sympos. Lectures, Madras,* 1966), *pp.* 131-159. *Plenum, New York,* 1968. (H. Kober) 38 #1262

Unno, Wasaburo
On the convective stability in a region of variable mean molecular weight. *Z. Astrophys.* 61 (1965), 268-272. (E. A. Spiegel) 31 #6661

Uno, Yoshikazu
Operating functions on some subspaces of l_p. *Tôhoku Math. J.* (2) 20 (1968), 60-72. (S. Izumi) 37 #3346

Unsain, Ignacio
Classification of the simple separable real L^*-algebras. *Bull. Amer. Math. Soc.* 77 (1971), 462-466. (H. Alagia) 43 #304

Unt, V.
A combined Bondi and fast approximation method in general relativity. I. The axi-symmetric case. (Estonian and Russian summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 169-185. (I. Robinson) 43 #5885

Unterberger, André
(with Bokobza-Haggiag, Juliane) Les opérateurs de Calderon-Zygmund précisés. *C. R. Acad. Sci. Paris* 259 (1964), 1612-1614. (R. T. Seeley) 31 #635a
L'indice est une fonction additive sur $K(B(X), S(X))$. *Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique (Séminaire H. Cartan* 16^e *année:* 1963/64, *Fasc.* 1), *Exposé* 14, 3 *pp. Secrétariat mathématique, Paris,* 1965. (J. Dieudonné) 31 #4047a
(with Bokobza-Haggiag, Juliane) Les opérateurs de Calderon-Zygmund précisés. *C. R. Acad. Sci. Paris* 260 (1965), 34-37. (R. Seeley) 31 #635b
(with Bokobza-Haggiag, Juliane) Sur une généralisation des opérateurs de Calderón-Zygmund et des espaces H^s. *C. R. Acad. Sci. Paris* 260 (1965), 3265-3267. (B. Frank Jones, Jr.) 32 #6264
(with Bokobza-Haggiag, Juliane) Les opérateurs pseudo-différentiels d'ordre variable. *C. R. Acad. Sci. Paris* 261 (1965), 2271-2273. (R. T. Seeley) 32 #4567
Solutions à régularité d'ordre variable d'équations aux dérivé partielles à coefficients constants. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A313-A314. (H. Kumano-go) 41 #3978
Solutions à régularité d'ordre variable d'équations aux dérivé partielles. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A368-A369. (H. Kumano-go) 41 #3975
Régularité des solutions d'équations aux dérivées partielles à deux variables, à coefficients constants. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A814-A815. (H. Kumano-go) 41 #3976

Unteregger, P.
(with Cap, F.; Majerotto, W.; Raab, W.) Spinor calculus in Riemannian manifolds. *Fortschr. Physik* 14 (1966), 205-233. (H. A. Buchdahl) 34 #8312

Unti, Theodore W. J.
(with Newman, Ezra T.) Note on the dynamics of gravitational sources. *J. Mathematical Phys.* 6 (1965), 1806-1811. (P. Rastall) 32 #5339
(with Torrence, R. J.) Theorem on gravitational fields with geodesic rays. *J. Mathematical Phys.* 7 (1966), 535-538. (Gerald Rosen) 32 #5335

Uosaki, Katsuji
(with Sugiyama, Hiroshi) On an application of the stochastic approximation process to the control system with a time-varying parameter. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 529-536. (Authors' summary) 42 #5690

Upadhyay, M. D.
Congruences of curves in a Riemannian space. (Turkish summary) *İstanbul Üniv. Fen. Fak. Mec. Ser. A* 27 (1962), 35-40. (Author's summary) 31 #2690
(with Mishra, R. S.) Maxwell fields. *J. Math. Pures Appl.* (9) 43 (1964), 67-85. (A. Peres) 29 #1037

Orthogonal correspondence in a ϕ-congruence. *Tensor (N.S.)* 15 (1964), 29-36. (M. Decuyper) 29 #534

(with Nigam, I. S.) On congruence of Guichard. *Tensor (N.S.)* 15 (1964), 40-44. (T. K. Pan) 29 #538

Geodesic torsion of a congruence. *Tensor (N.S.)* 15 (1964), 45-53. (T. K. Pan) 29 #537

Director surfaces with orthogonal correspondence. *Tensor (N.S.)* 15 (1964), 228-232. (T. K. Pan) 29 #6397

Union curves of a Riemannian space. *Tensor (N.S.)* 16 (1965), 93-96. (A. Fialkow) 31 #2691

A note on Hlavatý's theory of Einstein Maxwell fields. *Tensor (N.S.)* 17 (1966), 86-91. (B. K. Dutta) 34 #5491

Congruences of curves in a Riemannian space. III. *Gaṇita* 20 (1969), *no.* 2, 7-10. (P. Vincensini) 42 #8418

Some applications of Malus Dupin theorem. *Gaṇita* 20 (1969), *no.* 2, 17-21. (J. Hoschek) 42 #5172

(with Trivedi, H. K. N.) Hypersurface of striction of curvilinear congruence in a Riemannian space. *Gaṇita* 20 (1969), *no.* 1, 55-64. (K. K. Gorowara) 42 #2385

Conformal curvature identities. *Tensor (N.S.)* 21 (1970), 33-36. (J. R. Vanstone) 41 #960

Some applications of Malus-Dupin theorem. I. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 1, 7-9. (Author's summary) 43 #1063

On the congruence-μ. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 1, 10-14. (Author's summary) 43 #1064

Upadhyay, Manjari

q-differential equations with polynomial solutions. *Proc. Amer. Math. Soc.* 18 (1967), 57-62. (L. Carlitz) 34 #3047

Certain transformations and summation formulae for basic bilateral hypergeometric series ${}_2\Psi_2$. *Amer. Math. Monthly* 75 (1968), 171-172. (L. J. Slater) 37 #1654

(with Verma, Arun) Certain transformations of the products of basic bilateral hypergeometric series. *Indian J. Math.* 10 (1968), 59-71. (L. J. Slater) 38 #1296

(with Verma, Arun) Transformations of products of basic bilateral hypergeometric series. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 155-168. (Authors' summary) 40 #1609

Upadhyaya, K. S.

Flow-transition through several oblique hydromagnetic shocks. *Tensor (N.S.)* 19 (1968), 337-340. (R. P. Kanwal) 38 #2995

Upadhyaya, R. D.

Certain representation theorems for a generalised third iterate of the Laplace transform. *Ranchi Univ. Math. J.* 1 (1970), 11-16. (B. R. Bhonsle) 43 #7873

Upadhyaya, U. N.

(with Wannier, G. H.) Zero-field susceptibility of Bloch electrons. *Phys. Rev.* (2) 136 (1964), A803-A810. (C. P. Enz) 31 #3183

Uppuluri, V. R. Rao

A stronger version of Gautschi's inequality satisfied by the gamma function. *Skand. Aktuarietidskr.* 1964, 51-52 (1965). (Walter Gautschi) 31 #4934

On a stronger version of Wallis' formula. *Pacific J. Math.* 19 (1966), 183-187. (H. L. Harter) 34 #3743 (E)

(with Feder, P. I.; Shenton, L. R.) Random difference equations occurring in one-compartment models. *Math. Biosci.* 1 (1967), 143-171. (Authors' summary) 35 #6229

Correction to: "On a stronger version of Wallis' formula". *Pacific J. Math.* 23 (1967), 629-630. (H. L. Harter) 36 #4692

(with Carpenter, John A.) Numbers generated by the function $\exp(1-e^x)$. *Fibonacci Quart.* 7 (1969), *no.* 4, 437-448. (H. Gupta) 41 #3294

(with Carpenter, John A.) An inversion method for band matrices. *J. Math. Anal. Appl.* 31 (1970), 554-558. (J. Vandergraft) 42 #3096

(with Doner, J. R.) A Markov chain structure for riff shuffling. *SIAM J. Appl. Math.* 18 (1970), 191-209. (J. G. Mauldon) 42 #5337

(with Carpenter, John A.) A generalization of the classical occupancy problem. *J. Math. Anal. Appl.* 34 (1971), 316-324. (Bernard Harris) 43 #5572

Ura, Taro

On the flow outside a closed invariant set; stability, relative stability and saddle sets. *Contributions to Differential Equations* 3 (1964), 249-294. (W. R. Utz) 29 #321

(with Kimura, Ikuo) Stability in topological dynamics. *Proc. Japan Acad.* 40 (1964), 703-706. (W. H. Gottschalk) 31 #1669

Sur le courant extérieur à une région invariante. *Funkcial. Ekvac.* 9 (1966), 171-179. (W. R. Utz) 35 #501

Isomorphism and local characterization of local dynamical systems. *Funkcial. Ekvac.* 12 (1969), 99-122. (W. R. Utz) 41 #4515

Local isomorphisms and local parallelizability in dynamical systems theory. *Math. Systems Theory* 3 (1969), 1-16. (O. Hájek) 40 #489

Urabe, Minoru

Relations between periods and amplitudes of periodic solutions of $\ddot{x} + g(x) = 0$. *Funkcial. Ekvac.* 6 (1964), 63-88. (Z. Opial) 30 #4028

Galerkin's procedure for nonlinear periodic systems. *Arch. Rational Mech. Anal.* 20 (1965), 120-152. (L. Cesari) 32 #253

Galerkin's procedure for non-linear periodic systems and its extension to multi-point boundary value problems for general non-linear systems. *Numerical Solutions of Nonlinear Differential Equations (Proc. Adv. Sympos., Madison, Wis., 1966), pp.* 297-327. *John Wiley & Sons, Inc., New York,* 1966. (C. W. Clenshaw) 34 #8652

An existence theorem for multi-point boundary value problems. *Funkcial. Ekvac.* 9 (1966), 43-60. (P. B. Bailey) 35 #455

Periodic solutions of differential systems, Galerkin's procedure and the method of averaging. *J. Differential Equations* 2 (1966), 265-280. (L. Collatz) 34 #966

(with Reiter, Allen) Numerical computation of nonlinear forced oscillations by Galerkin's procedure. *J. Math. Anal. Appl.* 14 (1966), 107-140. (T. Pearcey) 32 #8513 (E)

(with Reiter, Allen) Erratum: "Numerical computation of nonlinear forced oscillations by Galerkin's procedure". *J. Math. Anal. Appl.* 16 (1966), 382. (Editors) 33 #6841

Numerical solution of multi-point boundary value problems in Chebyshev series. Theory of the method. *Numer. Math.* 9 (1966/67), 341-366. (H. Oser) 35 #6375

* Nonlinear autonomous oscillations: Analytical theory. Mathematics in Science and Engineering, Vol. 34. *Academic Press, New York-London,* 1967. xi + 330 *pp.* (G. P. Szegö) 36 #2898

The Newton method and its application to boundary value problems with nonlinear boundary conditions. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn.,* 1967), *pp.* 383-410. *Benjamin, New York,* 1967. (D. R. Arterburn) 36 #6676

The degenerate case of boundary value problems associated with weakly nonlinear differential systems. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 545-584. (V. Lakshmikantham) 40 #1631

Roundoff error distribution in fixed-point multiplication and a remark about the rounding rule. *SIAM J. Numer. Anal.* 5 (1968), 202-210. (R. B. Potts) 37 #3796

Numerical solution of boundary value problems in Chebyshev series—A method of computation and error estimation. *Conf. on Numerical Solution of Differential Equations (Dundee,* 1969), *pp.* 40-86. *Springer, Berlin,* 1969. (C. W. Clenshaw) 43 #1443

Numerical investigation of subharmonic solutions to Duffing's equation. *Publ. Res. Inst. Math. Sci.* 5 (1969), 79-112; *correction, ibid.* 5 (1969), 286a. (C. C. Conley) 41 #2935

An implicit one-step method of high-order accuracy for the numerical integration of ordinary differential equations. *Numer. Math.* 15 (1970), 151-164. (J. C. Butcher) 42 #2679

Uragami, Takuyuki S.

Pendellösung fringes in Bragg case in a crystal of finite thickness. *J. Phys. Soc. Japan* 28 (1970), 1508-1527. (Author's summary) 42 #7150

Ural'ceva, Nina N.

(with Ladyženskaja, O. A.) A boundary-value problem for linear and quasi-linear parabolic equations. I, II, III. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 26 (1962), 5-52; *ibid.* 26 (1962), 753-780; *ibid.* 27 (1963), 161-240. (D. G. Aronson) 31 #6063

(with Ladyženskaja, O. A.) On linear and quasi-linear equations and systems of elliptic and parabolic types. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963), *pp.* 146-150. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. Sarason) 37 #604

* (with Ladyženskaja, O. A.) Линейные и квазилинейные уравнения эллиптического типа. (Russian) [Linear and quasi-linear equations of elliptic type] *Izdat. "Nauka", Moscow,* 1964. 538 *pp.* (H. Smolickiĭ (RŽMat 1965 #11 B241K)) 35 #1955

(with Ladyženskaja, O. A.; Rivkind, V. Ja.) Classical solvability of diffraction problems for equations of elliptic and parabolic types. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 513-515. (J. Nečas) 29 #4973

(with Ladyženskaja, O. A.) On the Hölder continuity of the solutions and the derivatives of linear and quasi-linear equations of elliptic and parabolic types. (Russian) *Trudy Mat. Inst. Steklov.* 73 (1964), 172-220. (A. Friedman) 30 #4063

(with Ivanov, A. V.; Ladyženskaja, O. A.; Treskunov, A. L.) Certain properties of generalized solutions of parabolic equations of the second order. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 17-20. (Pawel Szeptycki) 33 #4477

(with Ivanov, A. V.; Ladyženskaja, O. A.; Treskunov, A. L.) Generalized solutions of parabolic equations of second order. (Russian) *Trudy Mat. Inst. Steklov.* 92 (1966), 57-92. (I. Lojczyk-Królikiewicz) 35 #577

(with Ladyženskaja, O. A.; Rivkind, V. Ja.) Solvability of diffraction problems in the classical sense. (Russian) *Trudy Mat. Inst. Steklov.* 92 (1966), 116-146. (P. Grisvard) 35 #1932

* (with Ladyženskaja, O. A.; Solonnikov, V. A.) Линийные и квазилинейные уравнения параболиченкого типа. (Russian) [Linear and quasilinear equations of parabolic type] *Izdat. "Nauka", Moscow,* 1967. 736 *pp.* (B. Frank Jones, Jr.) 39 #3159a

(with Ladyženskaja, O. A.) Investigation of smoothness with respect to t of weak solutions of equations of parabolic type. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 7, 54-63. (P. C. Fife) 35 #3229 (with Ladyženskaja, O. A.) Certain classes of nonuniformly elliptic equations. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 5 (1967), 186-191. (D. Pascali) 37 #3182

The impossibility of W_q^2 estimates for multidimensional elliptic equations with discontinuous coefficients. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 5 (1967), 250-254. (H. Triebel) 37 #1769

* (with Ladyženskaja. O. A.) Équations aux dérivées partielles de type elliptique. Traduit par G. Roos. Monographies Universitaires de Mathématiques, No. 31. *Dunod, Paris,* 1968. xix + 450 *pp.* (Editors) 39 #630

* (with Ladyženskaja. O. A.; Solonnikov, V. A.) Linear and quasi-linear equations of parabolic type. Translated from the Russian by S. Smith. Translations of Mathematical Monographs, Vol. 23. *American Mathematical Society, Providence, R. I.,* 1968. xi + 648 *pp.* (B. Frank Jones, Jr.) 39 #3159b

Degenerate quasilinear elliptic systems. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 7 (1968), 184-222. (V. Barbu) 39 #5942

* (with Ladyženskaja, Olga A.) Linear and quasilinear elliptic equations. Translated from the Russian by Scripta Technica, Inc. Translation editor: Leon Ehrenpreis. *Academic Press, New York-London,* 1968. xviii + 495 *pp.* (editors) 39 #5941

(with Ladyženskaja, O. A.) Certain classes of nonuniformly elliptic equations. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 11 (1968), 129-149. (D. Pascali) 41 #3991

(with Rivkind, V. Ja.) A priori estimates for quasilinear parabolic equations with discontinuous coefficients and their application in approximation methods. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 271-274. (T. Styś) 39 #1808

(with Ladyženskaja, O. A.) Total estimates of the first derivatives with respect to x of the solutions of quasilinear elliptic and parabolic equations. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 127-155. (R. Finn) 43 #6590

(with Rivkind, V. Ja.) The solvability of diffraction problems for quasilinear parabolic equations. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 191-199. (M. Borsuk (RŽMat 1970 #2 B406)) 43 #2364

The nonselfadjointness in $L_2(R^n)$ of an elliptic operator with rapidly increasing coefficients. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 14 (1969), 288-294. (M. Birman (RŽMat 1970 #1 B623)) 43 #2574

(with Ladyženskaja, O. A.) Local estimates for gradients of solutions of non-uniformly elliptic and parabolic equations. *Comm. Pure Appl. Math.* 23 (1970), 677-703. (V. G. Sigillito) 42 #654

Ural'skaja, V. S.

Polar orbits of artificial celestial bodies. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 4, 34-44. (T. Leser) 29 #4591

Ural'tzeva, N. N. See Ural'ceva, Nina N.

Uranisi, Hisao

Optimum design for the special cubic regression on the q-simplex. *Math. Rep. General Ed. Department Kyushu Univ.* 1 (1964), 7-12. (J. Kiefer) 37 #2384

Urashima, Shin-o

On some integral formulae appearing in Fourier transformations. (Japanese. English summary) *Res. Rep. Anan Tech. College No.* 6 (1970), 19-23. (Editors) 44 #1987

Urata, Yoshihiro

(with Nakamura, Masahiro; Otomi, Yasuhiro) A remark on the carrier projections in abelian operator algebras. *Mem. Osaka Univ. Lib. Arts Ed. Ser. B No.* 13 (1964), 25-26. (Editors) 31 #3885

Urazbaev, B. M.

Some asymptotic bounds and their applications to the problem of the distribution of absolute Abelian fields. (Russian. Kazak summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 2, 16-21. (E. Fogels) 30 #3075

On the behavior of the function $1/L(s,x)$ in the critical strip. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963) *(Russian), pp.* 138-139. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (C. Karanikolov) 33 #4025

The algebra of elementary abelian fields. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1965, *no.* 1, 3-9. (R. Finkelstein) 32 #5646

The algebra of elementary abelian fields. II. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 3-9. (R. Finkelstein) 34 #4250

On the distribution of certain absolutely abelian fields. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 10-13. (R. Finkelstein) 34 #5806

(with Sarbasov, G.) On the remainder of the asymptotic formula for distribution of cyclic fields of prime degree l. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 1, 14-19. (E. Inaba) 34 #2558

Asymptotic estimates of certain arithmetical sums. (Russia *Kazah. Gos. Ped. Inst. Učen. Zap.* 23 (1966), 3-4. (Editors) 37 #1354

Asymptotic estimates of arithmetical sums. (Russian. Kaza summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 1, 7-16. (R. Finkelstein) 35 #1577

Algebra of special elementarily abelian fields of type (l,l). I. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 1, 25-32. (R. Finkelstein) 35 #6653

Algebra of special elementarily-abelian fields of type $(l,$ II. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 3, 12-18. (R. Finkelstein) 35 #6654

The growth of the number of real quadratic fields with positive discriminant. (Russian) *Proc. Second Kazakhstan Interuniv. Sci. Conf. Math. Mech.* (1965) *(Russian), pp.* 15-20. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. (J. Browkin) 41 #1633

The distribution of the discriminants of cyclic fields of prime degree. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 8-14. (J. P. Labute) 42 #7631

Urbah, V. Ju.

Introduction to "informo-dynamics" as a branch of informat theory. (Russian) *Problemy Kibernet. No.* 10 (1963), 99-109. (Csiszár) 31 #1122

On the correlations between letters of an alphabet in comp the amount of information in a communication. (Russian) *Problem Kibernet. No.* 10 (1963), 111-117. (H. P. Edmundson) 30 #1871

Urbah, V. Yu. See Urbah, V. Ju.

Urbakh, V. Iu. See Urbah, V. Ju.

Urban, Alois

Elementary spatial determination of osculating circles of conic sections. (Czech. Russian summary) *Mat.-Fys. Časopis Sloven. Akad. Vied* 15 (1965), 73-80. (Author's summary) 31 #5129

Urbán, J.

Die Minimalisierung der zur sequentiellen Berechnung der partiell-rekursiven Wortfunktionen notwendigen Kellerspeicher. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 335-358. (E. M. Fels) 35 #1476

Urban, Paul

(with Ringhofer, K.) Komplexe Energie und komplexer Drehimpuls bei Vorhandensein von Nichtzentralpotentialen. *Acta Phys. Austriaca* 17 (1963), 96-108. (H. Ekstein) 31 #4376

(See also Weak Interactions and Higher Symmetries, 34 #2288; Quantum electrodynamics, 33 #2120; Elementary particle theories, 34 #3888; and Particle physics, 40 #2737)

(with Clausen, H. D.) Zur Funktionalrechnung bei Fermi-Feldern. *Acta Phys. Austriaca* 19 (1964), 45-52. (S. Aramaki) 30 #1756

(with Bartl, A.) Über die Strahlungskorrekturen zur e-p-Streuung. *Fortschr. Physik* 12 (1964), 387-408. (Y. S. Tsai) 32 #6910

(with Kaitna, R.) Light propagation in a homogeneous magnet field. *Nuclear Phys.* 56 (1964), 518-528. (F. Rohrlich) 31 #3054

Urbanek, Leonard

Sur un problème de Borel au sujet de la raréfaction. *C. R. Acad. Sci. Paris* 261 (1965), 4301-4302. (B. K. Lahiri) 35 #67

(with Moszner, Zenon) Comparaison de la raréfaction logarithmique d'un ensemble et d'un sous-ensemble. *Bull. Sci. Math.* (2) 91 (1967), 19-24. (B. K. Lahiri) 37 #2934

Urbanik, Kazimierz

The principle of increase of entropy in quantum mechanics. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962), *pp.* 743-764. *Publ. House Czech. Acad. Sci., Prague,* 1964. (A. Peres) 29 #3127

On algebraic operations in idempotent algebras. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 739-742. (G. Grätzer) 31 #112

Prediction of strictly stationary sequences. *Colloq. Math.* 12 (1964), 115-129. (L. H. Koopmans) 30 #605

Relative processes with continuous distribution functions. *Colloq. Math.* 12 (1964), 131-146. (L. H. Koopmans) 30 #604

Remarks on the entropy in quantum macrophysics. *Colloq. Math.* 12 (1964), 271-276. (R. Arens) 30 #4533

On algebraic operations in idempotent algebras. *Colloq. Math* 13 (1964/65), 129-157. (J. Jakubík) 31 #3370

Remarks on quasi-symmetrical operations. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 389-392. (G. Grätzer) 32 #4064

A representation theorem for two-dimensional v^*-algebras. *Fund. Math.* 57 (1965), 215-236. (Ph. Dwinger) 32 #4065

On a class of universal algebras. *Fund. Math.* 57 (1965), 327-350. (G. Grätzer) 32 #4066

Szegő's theorem for Orlicz spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 503-509. (A. C. Zaanen) 34 #6567

Linear independence in abstract algebras. *Colloq. Math.* 14 (1966), 233-255. (G. Grätzer) 32 #2365

Remarks on symmetrical operations. *Colloq. Math.* 15 (1966), 1-9. (G. Grätzer) 33 #2589

(with Fajtlowicz, S.; Głazek, K.) Separable variables algebras. *Colloq. Math.* 15 (1966), 161-171. (A. C. Choudhury) 34 #5723

On some numerical constants associated with abstract algebras. *Fund. Math.* 59 (1966), 263-288. (P. J. Higgins) 34 #7432

Some prediction problems for strictly stationary processes. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part* 1, *pp.* 235-258. *Univ. California Press, Berkeley, Calif.*, 1967. (L. H. Koopmans) 35 #7396

* Lectures on prediction theory. Delivered at the University Erlangen-Nürnberg, 1966. Prepared for publication by J. Rosenmüller. Lecture Notes in Mathematics, No. 44. *Springer-Verlag, Berlin-New York*, 1967. ii + 50 *pp.* (Simeon M. Berman) 36 #7204

(with Woyczyński, W. A.) A random integral and Orlicz spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 161-169. (J. L. Doob) 35 #6170

A characterization of a class of convolutions. *Colloq. Math.* 18 (1967), 239-249. (J. F. C. Kingman) 36 #3389

A representation of self-decomposable distributions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 209-214. (R. Jajte) 37 #5913

(with Gilewski, J.) Generalized convolutions and generating functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 481-487. (J. F. C. Kingman) 38 #1713

On some numerical constants associated with abstract algebras. II. *Fund. Math.* 62 (1968), 191-210. (A. Goetz) 37 #3988

Random measures and harmonizable sequences. *Studia Math.* 31 (1968), 61-88. (A. Rényi) 39 #7644

Remarks on congruence relations and weak automorphisms in abstract algebras. *Colloq. Math.* 20 (1969), 1-5. (A. Goetz) 39 #1387

A remark on v^*-algebras. *Colloq. Math.* 20 (1969), 197-202. (J. Froemke) 40 #1323

Self-decomposable probability distributions on R^m. *Zastos. Mat.* 10 (1969), 91-97. (M. M. Siddiqui) 39 #6380

(with Kamiński, A.) Centered probability distributions. *Comment. Math. Prace Mat.* 14 (1970), 65-73. (S. M. Samuels) 43 #1248

rbanovič, M. I.

Green's matrix for a class of linear two-point boundary value problems. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1043-1051. (P. B. Bailey) 33 #5995

The Cauchy matrix of a linear system of ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 320-327. (K. W. Chang) 42 #3339

rbanovič, M. M.

(with Kazīmīrs'kiĭ, P. S.) A certain sufficient condition for the solution of a quadratic matrix equation over a field of coefficients. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 44 (1970), 38-43, 210. (M. Slater) 44 #4017a

On the decomposition of a triangular polynomial matrix of second degree into factors. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 44 (1970), 44-49, 210. (M. Slater) 44 #4017b

On the question of the decomposition of a matrix polynomial into products of commutative co-factors. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Īnst. No.* 44 (1970), 199-206, 218. (M. Slater) 44 #4017c

Urbański, P.

Differentiable structure in a certain class of Wheeler's superspaces. *Rep. Mathematical Phys.* 1 (1970/71), *no.* 3, 211-213. (R. Geroch) 43 #7190

Urbelis, J.

Distribution of the primes of the real quadratic field $K(\sqrt{2})$. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 4 (1964), 409-427. (J. Kubilius) 31 #139

Distributions of primes for a purely real field of algebraic numbers. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 5 (1965), 307-324. (J. Kubilius) 34 #5782

Distribution of algebraic primes. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 5 (1965), 504-516. (W. Schwarz) 33 #5586

Urbjalis, I. See Urbelis, J.

Urbonas, A. P.

Connections in the space of support elements. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 6 (1966), 279-290. (M. Kucharzewski) 35 #4848

The differential invariants of a space of support elements. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 115-133. (B. Laptev (RŽMat 1969 #8 A521)) 42 #5184

Maximally mobile spaces of hyperplane elements with a general affine connection. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 9 (1969), 153-179. (L. Tamássy) 40 #4889

Ureña, Manuel Valdivia. See Valdivia Ureña, Manuel.

Uretsky, J. L.

The scattering of plane waves from periodic surfaces. *Ann. Physics* 33 (1965), 400-427. (J. Gillis) 34 #1027

A speculation concerning the apparent CP violation in K^0 decay. *Phys. Lett.* 14 (1965), 154-156. (R. R. Lewis) 32 #857

Urich, Wolfram

(with Albrecht, R.) A difference method for the approximate solution of the initial value problem for systems of quasilinear partial differential equations of first order. *Deux. Congr. Assoc. Française Calcul et Traitement Information (Paris*, 1961), *pp.* 105-106. *Gauthier-Villars, Paris*, 1962. (D. G. Aronson) 31 #2834

Urman, A. A.

Groupoid of varieties of certain algebras. (Russian) *Algebra i Logika* 8 (1969), *no.* 2, 241-250. (I. D. Macdonald) 41 #6918

Uroşu, C.

(with Burlacu, E.; Obăgean, E.) On operations with Boolean matrices. (Romanian. Russian and French summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 14(28) (1969), *fasc.* 1, 21-28. (S. Rudeanu) 41 #120

Urponen, Topi

On axiom systems for regular expressions and on equations involving languages. *Ann. Univ. Turku. Ser. A I No.* 145 (1971), 52 *pp.* (P. Deussen) 44 #6419

Urquhart, N. S.

Computation of generalized inverse matrices which satisfy specified conditions. *SIAM Rev.* 10 (1968), 216-218. (M. Lotkin) 37 #2771

The nature of the lack of uniqueness of generalized inverse matrices. *SIAM Rev.* 11 (1969), 268-271. (M. Lotkin) 40 #159

Ursell, F.

The decay of the free motion of a floating body. *J. Fluid Mech.* 19 (1964), 305-319. (J. N. Newman) 29 #840

Integrals with a large parameter. The continuation of uniformly asymptotic expansions. *Proc. Cambridge Philos. Soc.* 61 (1965), 113-128. (F. W. J. Olver) 30 #2276

On the rigorous foundation of short-wave asymptotics. *Proc. Cambridge Philos. Soc.* 62 (1966), 227-244. (C. Yeh) 33 #3580

Creeping modes in a shadow. *Proc. Cambridge Philos. Soc.* 64 (1968), 171-191. (P. L. E. Uslenghi) 36 #2359

Integral equations with rapidly oscillating kernel. *J. London Math. Soc.* 44 (1969), 449-459. (S. L. Kalla) 39 #3256

Integrals with a large parameter: Paths of descent and conformal mapping. *Proc. Cambridge Philos. Soc.* 67 (1970), 371-381. (Y. Komatu) 41 #475

Ursescu, Corneliu

Équations aux dérivées Fréchet. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 339-368. (J. E. Lagnese) 41 #4234

Réduction de la dimension du controle des systèmes, linéaires, autonomes, controlables. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 35-40. (L. D. Berkovitz) 42 #9021

Équations aux dérivées Fréchet quasilinéaires. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 41-49. (H. H. Keller) 42 #8115

Ursianu, Emiliana

On the verification of the hypothesis of equality of means with the aid of contrasts. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1417-1427. (Author's summary) 42 #5396

Ursu, N.

(with Popescu, P.) Some applications of quaternionic calculus to the kinematics of the rigid body. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 12 (1969), 261-266. (R. Miron) 44 #3546

Ursul, M. I.

(with Florja, I. A.) *F*-quasigroups with invertibility property (IPF-quasigroups). (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 145-156. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev*, 1970 (1971). (Authors' summary) 43 #393

Urusovskiĭ, I. A.

Diffraction by a periodic surface. *Akust. Ž.* 10 (1964), 338-346 *(Russian); translated as Soviet Physics Acoust.* 10 (1964), 287-293. 32 #2004

Wave diffraction by a sinusoidal surface. *Akust. Ž.* 11 (1965), 93-101 *(Russian); translated as Soviet Physics Acoust.* 11 (1965), 75-80. 32 #2005

Urwin, Kathleen M.

Integral equations for paraboloidal wave functions. I. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 309-315. (J. Meixner) 31 #3643

Integral equations for the paraboloidal wave functions. II. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 257-262. (J. Meixner) 33 #5961

Perturbation solutions of the Whittaker-Hill equation. *J. Inst. Math. Appl.* 3 (1967), 169-180. (H. Hochstadt) 35 #4513

Ury, Hans K.

Large-sample sign tests for trend in dispersion. *Biometrika* 53 (1966), 289-291. 33 #3404

Usačev, E. S.

On limit distributions in a stochastic learning model. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 1238-1239. (Editors) 32 #2267

A stochastic teaching model and its properties. (Russian) *Studies in the Theory of Self-adjusting Systems (Russian), pp.* 8-26. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. 37 #2543

Asymptotic properties and the approximation of stochastic models of teaching. *Dokl. Akad. Nauk SSSR* 182 (1968), 282-284 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 849-851. (G. M. Ewing) 39 #2236

Usačev, Ju. D.

Infinite time formalism in quantum field theory. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 187-195 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 133-138. (S. Deser) 31 #5518

Usačev, V. A.

(with Paderno, I. P.) Some basic properties of systems of mass service with constant productivity and refusals (losses). (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 1, 86-93. (M. R. Leadbetter) 31 #2767

Usachev, E. S. See Usačev, E. S.

Usachev, Yu. D. See Usačev, Ju. D.

Usai, G.

(with Corriga, G.; Mocci, F.) L'individuazione delle regioni di stabilità nei sistemi del secondo ordine con variabili di stato limitate. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 104 (1970), 645-667. (R. F. Matlak) 43 #3569

Usai, Giuseppe

Sviluppi in serie su ellissi e cilindri ellittici. (French summary) *Atti Accad. Ligure* 19 (1962), 283-288 (1963). (P. V. Reichelderfer) 29 #1582

Ušakov, I. A.

(with Konenkov, Ju. K.) Evaluation of the operational effectiveness of branching systems with symmetrical structure. (French summary) *CORS J.* 2 (1964), 104-108. (Authors' summary) 30 #3766

A means of obtaining random numbers with a uniform law of distribution. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 1, 193-197. 32 #1880

(See Barlow, Richard E.; Proschan, Frank, 43 #1607)

Optimal problems in reliability theory. (Russian) *Mathematical Methods in Quality Control and Reliability (Proc. All-Union Colloq., Tashkent,* 1967) *(Russian), pp.* 92-98. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. (G. E. Noether) 42 #5409

* (with Kozlov, B. A.) Reliability handbook. Translated from the Russian by Lisa Rosenblatt. Edited by L. H. Koopmans and Judah Rosenblatt. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London,* 1970. xvi + 391 *pp.* (W. Uhlmann) 43 #5671

Ušakov, V. I.

Topological $\overline{FC}$-groups. (Russian) *Sibirsk. Mat. Ž.* 4 (1963), 1162-1174. (H. de Vries) 29 #2322

Topological groups with bicompact classes of conjugate subgroups. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 277-283. (H. Freudenthal) 29 #1282

Bicompactly generated groups. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 1 (115), 179-182. (W. T. van Est) 29 #1283

On groups with a normalizer condition for closed subgroups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1055-1068. (K. A. Ross) 33 #1401

Topological locally nilpotent groups. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 581-595. (P. M. Cohn) 31 #3538

Classes of conjugate subgroups in topological groups. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 51-53. (G. Chogoshvili) 41 #1918

Ušakov, V. V.

(with Kas′janov, V. O.) The equations of mean turbulent motion for two-dimensional electrohydrodynamic flows. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 1448-1451. (Authors' summary) 30 #2805

Ušakova, I. V.

Certain estimates of functions subharmonic in a ball. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 1 (1965), 219-223. (T. J. Reed) 34 #2920

Asymptotic difference estimates of subharmonic functions in the plane. (Russian) *Vestnik Har′kov. Gos. Univ. No.* 53 (1970), 70-81. (R. Hornblower) 43 #6448

Usami, Tatsuo

(with Satô, Yasuo) Propagation of spheroidal disturbances on a homogeneous elastic sphere. *Bull. Earthquake Res. Inst. Uni Tokyo* 42 (1964), 273-287. (Ivor McIvor) 31 #2898

Ušan, Janez

Definition of a constructibility in algebraic systems with finite sets (partial and many-valued) of n-operations and some of their properties. (Serbo-Croatian. German summary) *Mat. Vesnik* 2(17) (1965), 39-48. 33 #5544

Some remarks on finitely generated algebraic systems. (Russian) *Mat. Vesnik* 3(18) (1966), 83-86. 34 #4184

Some remarks on cliques and a generalization to n-ary semicliques. (Russian) *Mat. Vesnik* 4(19) (1967), 307-315. (B. M. Schein (Šaĭn)) 36 #6529

A certain 2-ary bimedial operator algebra. (Russian) *Mat. Vesnik* 4(19) (1967), 367-369. (M. Novotný) 37 #2664

A certain definition of group and its generalization to the n-ary case. (Russian) *Mat. Vesnik* 5(20) (1968), 145-149. (F. Šik) 38 #5980

R-semicliques. (Serbo-Croatian. Russian summary) *Mat. Vesnik* 5(20) (1968), 319-326. (M. Novotný) 39 #5452

A generalization of a theorem of V. D. Belousov on four quasigroups to the ternary case. (Russian. English summary) *Bull. Soc. Phys. Macédoine* 20 (1969), 13-17 (1971). (G. Čupona) 44 #4133

Some remarks on semi-cliques, and the definition of an AF-quasigroup. (Russian) *Mat. Vesnik* 6(21) (1969), 117-122. (F. Šik) 42 #3212

Systems of ternary quasigroups that are associative in the large. A ternary analogue of a theorem of Schauffler. (Russian) *Math. Balkanica* 1 (1971), 273-281. (B. M. Schein (Šaĭn)) 44 #4134

Usenbaeva, K.

On an approximate method for the solution of the first boundary value problem of the mathematical theory of elasticity for a sphere. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1965, *no.* 3, 45-51. (J. R. M. Radok) 33 #5178

An approximate solution of the first and second boundary value problems of the mathematical theory of elasticity for an ellipsoid. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 66-70. (P. P. Teodorescu) 41 #4884

Ushakov, Igor A. See Ušakov, I. A.

Usher, Peter D.

Coordinate stretching and interface location. I. Star models in quasi-static equilibrium. *J. Computational Phys.* 2 (1967/68), 8-11. (F. Hoppensteadt) 41 #5732

Coordinate stretching and interface location. II. A new PL expansion. *J. Combinational Phys.* 3 (1968/69), 29-39. (F. Hoppensteadt) 41 #5733

Necessary conditions for applicability of Poincaré-Lighthill perturbation theory. *Quart. Appl. Math.* 28 (1971), 463-471. (J. B. Butler, Jr.) 42 #8027

Ushijima, Teruo

Spectral theory of the perturbed homogeneous elliptic operator with real constant coefficients. *Sci. Papers College Gen. Ed. Univ. Tokyo* 16 (1966), 27-42. (Colin Clark) 34 #6576

On the spectrum of some Hamiltonian operator. *Sci. Papers College Gen. Ed. Univ. Tokyo* 16 (1966), 127-133. (C. Clark) 35 #811

Note on the integration of the wave equation. *Sci. Papers College Gen. Ed. Univ. Tokyo* 17 (1967), 155-159. (J. S. Howland) 37 #1821

Note on the spectrum of some Schrödinger operators. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 497-509. (J. S. Howland) 40 #3340

Some properties of regular distribution semi-groups. *Proc. Japan Acad.* 45 (1969), 224-227. (D. Fujiwara) 40 #7867

On the strong continuity of distribution semi-groups. *J. Fac. Sci. Univ. Tokyo Sect. I* 17 (1970), 363-372. (S. Kantorovitz) 43 #5348

Uskov, A. S.

* (with Solodovnikov, V. V.) Statistische Analyse von Regelstrecken. *VEB Verlag Technik, Berlin,* 1963. 167 *pp.* (Editors) 31 #1121

Uskov, A. V.

(with Adel′son-Vel′skiĭ, G. M.; Arlazarov, V. L.; Bitman, A. R. Životovskiĭ, A. A.) On programming a computer for playing chess. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 221-260. (M. Iosifescu) 41 #6575

Uskov, G. V.

(with Mel′c, I. O.; Pyhova, T. A.) Multidimensional statistical linearization of functions containing factors of power, exponential, trigonometric, and σ-function type. *Automat. i Telemeh.* 1967, *no.* 12, 65-75 *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 12, 1871-1880 (1968). (R. F. Drenick) 37 #3867

Uskow, A. S. See Uskov, A. S.

Uslenghi, Piergiorgio L. E.

High-frequency scattering from a coated cylinder. *Canad. J. Phys.* 42 (1964), 2121-2128; *erratum, ibid.* 43 (1965), 724. (Y. Hayashi) 31 #1893

A note on dielectric lenses. *Canad. J. Phys.* 42 (1964), 2359-2364. (E. W. Marchand) 30 #5670

Un nuovo metodo per l'integrazione delle equazioni della termoelasticità di solidi incomprimibili. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 201-207. (N. Zitron) 41 #9475

Usmani, Riaz A.

Boundary value techniques for the numerical solution of certain initial value problems in ordinary differential equations. *J. Assoc. Comput. Mach.* 13 (1966), 287-295. (M. P. S. Madan) 34 #3798

(with Fischer, Charlotte F.) Properties of some tridiagonal matrices and their application to boundary value problems. *SIAM J. Numer. Anal.* 6 (1969), 127-142. (E. R. Hansen) 40 #3693

Properties of a five-band matrix and its application to boundary value problems. *Linear Algebra and Appl.* 4 (1971), 101-115. (A. K. Aziz) 44 #1864

Usmanov, N. K.

(See Terehova, V. A., 34 #8680)

An approximate method of solving the generalized Hilbert problem. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1965, *no.* 1, 79-90. (J. F. Heyda) 30 #2219

A boundary value problem in the theory of analytic functions with a derivative in the boundary condition. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 9, 7-10. (D. W. Solomon) 39 #1668

Usmanov, Z. D.

(with Barhin, G. S.) The Hilbert problem for a piecewise regular generalized analytic function. (Russian. Tajiki summary) *Studies in Boundary Value Problems, Theory of Functions, Differential Equations (Russian), pp.* 113-132. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1964. (D. Pascali) 36 #6631

(with Mihaĭlov. L. G.) Infinitesimal bendings of surfaces of revolution with positive curvature and with a parabolic or a conic point at the pole. (Russian. Tajiki summary) *Studies in Boundary Value Problems Theory of Functions Differential Equations (Russian), pp.* 21-53. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1965. (W. Wrona) 34 #689

(with Mihaĭlov. L. G.) Infinitesimal bendings of surfaces of revolution with positive curvature having a conic or a parabolic point at the pole. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 791-794. (J. F. Heyda) 33 #4457

(with Ačil'diev, A. I.) Rigidity of a surface with a point of flattening. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 89-96. (J. F. Heyda) 35 #2210

An investigation of the model generalized Cauchy-Riemann system with singular coefficients. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 11, 6-10. (T. G. Gegelia) 41 #2034

The infinitesimal bendings of surfaces of positive curvature with an isolated point of flattening. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 596-615. (A. V. Pogorelov) 42 #8428

A boundary value problem for generalized analytic functions with a fixed singular point. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 288-291. (D. Mitrović) 43 #5041

Usmatu, Tosio

On some model of queueing system with state-dependent service time distributions. *Ann. Inst. Statist. Math.* 21 (1969), 89-106. 39 #6422

Usol'cev, L. P.

An additive problem with an increasing number of terms with the exponential function. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 96-104. (A. Rényi) 36 #127

Limit theorems for the uniform distribution of certain sequences. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 112-121. (A. Dvoretzky) 36 #937

A construction problem connected with the uniform distribution of the fractional parts of exponential functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 12 (67), 75-83. (J. B. Roberts) 36 #2564

Usow, Karl H.

On L_1 approximation. I. Computation for continuous functions and continuous dependence. *SIAM J. Numer. Anal.* 4 (1967), 70-88. (Ivan Singer) 36 #587

On L_1 approximation. II. Computation for discrete functions and discretization effects. *SIAM J. Numer. Anal.* 4 (1967), 233-244. (Ivan Singer) 36 #588

(with Rice, John R.) The Lawson algorithm and extensions. *Math. Comp.* 22 (1968), 118-127. (Bruno Brosowski) 38 #463

Uspalene, E. I. See Uspalienė, E.

Uspalienė, E.

On a family of ruled quadrics in a three-dimensional elliptic space. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 6 (1966), 601-608. (M. C. Chaki) 35 #3576

Uspenskiĭ, A. B.

(with Vasil'ev, F. P.) The finite-difference method for solving a two-phase Stefan problem for a quasi-linear equation. (Russian) *Dokl. Akad. Nauk SSSR* 152 (1963), 1034-1037. (K. Rektorys) 31 #898

(with Vasil'ev, F. P.) A difference method for solving a two-phase Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 874-886. (F. E. Albasiny) 31 #1784

(with Budak, B. M.) A difference method for solving boundary-value problems for an integro-differential equation of hyperbolic type with discontinuous coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 998-1005. (B. Frank Jones, Jr.) 30 #3581

(with Budak, B. M.) A difference method for solution of boundary value problems for quasilinear integro-differential equations of hyperbolic and parabolic types with discontinuous coefficients. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 473-508. *Izdat. Moskov. Univ., Moscow,* 1965. (J. M. Ortega) 33 #1986

(with Budak, B. M.; Vasil'ev, F. P.) Difference methods for solving certain boundary value problems of Stefan type. (Russian) *Numer. Methods in Gas Dynamics (Russian), pp.* 139-183. *Izdat. Moskov. Univ., Moscow,* 1965. (E. H. Bareiss) 34 #7126

(with Budak, B. M.; Solov'eva, E. N.) A difference method with smoothing of coefficients for the solution of the Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 828-840. (A. D. Solomon) 33 #8109

(with Budak, B. M.; Gol'dman, N. L.) Difference schemes with linearization of fronts for solution of multifront problems of Stefan type. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 735-738. (J. R. M. Radok) 34 #7127

(with Budak, B. M.; Gol'dman, N. L.) Difference schemes with straightening of fronts for the solution of multifront problems of Stefan type. (Russian) *Comput. Methods Programming, VI (Russian), pp.* 206-216. *Izdat. Moskov. Univ., Moscow,* 1967. (A. Haimovici) 36 #4834

(with Budak, B. M.; Gol'dman, N. L.; Egorova, A. T.) The method of straightening of fronts for the solution of Stefan type problems in the multidimensional case. (Russian) *Computing Methods and Programming, VIII (Russian), pp.* 103-120. *Izdat. Moskov. Univ., Moscow,* 1967. (I. Šelihova (RŽMat 1968 #6 B791)) 44 #3513

Method of rectifying the fronts for many-front one-dimensional Stefan-type problems. *Dokl. Akad. Nauk SSSR* 172 (1967), 61-64 *(Russian); translated as Soviet Physics Dokl.* 12 (1967), 26-29. (E. H. Bareiss) 35 #4550

Uspenskiĭ, K. I.

Construction of classes of uniqueness for the solution of the Cauchy problem for the equation $\partial u/\partial t = a[x^\mu \partial^\lambda/\partial x^\lambda]^\omega u$. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 667-681. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 34 #1685

Uspenskiĭ, S. V.

On boundary properties of a certain class of differentiable functions in smooth regions. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 750-752. (B. Bojarski) 35 #3436

The trace of functions belonging to the class $H_p^{r_1 \ldots r_n}$ of S. M. Nikol'skiĭ. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 574-580. (J. L. B. Cooper) 31 #3856

Imbedding and extension theorems for a certain class of functions. I. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 192-199. (J. L. B. Cooper) 33 #559

Imbedding and extension theorems for a certain class of functions. II. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 409-418. (J. L. B. Cooper) 33 #6382

Imbedding theorems of functions in regions. I. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 650-663. (J. Friberg) 34 #8171

Mixed derivatives of functions summable with a weight. (Russian) *Differencial'nye Uravnenija* 3 (1967), 139-154. (A. Kufner) 35 #5928

Mixed derivatives of functions summable with a weight. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 47-49. (J. Peetre) 35 #4719

The differential properties of solutions of quasielliptic equations in unbounded domains. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 562-564. (H. Marcinkowska) 38 #1390

Estimations on the infinity of solutions in one class of semi-elliptic equations. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 641-645. (H. Kumano-go) 42 #4870

The summability (boundedness) of the solutions of a certain class of hypoelliptic equations in unbounded domains. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 998-1001. (L. Cattabriga) 40 #6065

Differential properties of the solutions of a certain class of partial differential equations in unbounded domains. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 61-64. (H. Marcinkowska) 43 #681

The reconstruction of a function that is given by integrals over a certain family of ellipsoids. (Russian) *Dokl. Akad. Nauk SSSR* 202 (1972), 548-550. (Henryk Fast) 44 #7508

Uspenskiĭ, V. A.

* (with Dynkin, E. B.) Çokrenk problemleri. Matematik sohbetleri. I. (Turkish) [Map coloring problems. Mathematical conversations. I] Translated by A. R. Özbek and M. A. Özkan. Turkish Mathematical Society Publications, No. 2. *Türk Matematik Derneği, İstanbul,* 1962. vii + 71 *pp.* (Editors) 37 #3884a

* (with Dynkin, E. B.) Tesadüfî hareketler. Matematik sohbetleri. III. (Turkish) [Random walks. Mathematical conversations. III] Translated by A. R. Özbek and M. A. Özkan. Turkish Mathematical Society Publications, No. 4. *Türk Matematik Derneği, İstanbul,* 1962. vii + 94 *pp.* (Editors) 37 #3884c

* (with Dynkin, E. B.) Sayilar teorisinden problemler. Matematik sohbetleri. II. (Turkish) [Problems from number theory. Mathematical conversations. II] Translated by A. Nazmi Ilker. Turkish Mathematical Society Publications, No. 3. *Türk Matematik Derneği, İstanbul,* 1963. xi + 163 *pp.* (Editors) 37 #3884b

* Leçons sur les fonctions calculables. Traduit du russe par André Chauvin. Actualités Scientifiques et Industrielles, No. 1317. *Hermann, Paris,* 1966. 412 *pp.* (Editors) 33 #2542

* (with Dynkin, E. B.) Mathematische Unterhaltungen. I. Mehrfarbenprobleme. Aus dem Russischen übertragen von Peter Friedel. Wissenschaftliche Redaktion von Brigitte Mai. Dritte, durchgeschene Auflage. Kleine Ergänzungsreihe zu den Hochschulbüchern für Mathematik, Band XIII. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1966. viii + 65 *pp.* (Editors) 35 #2a

* (with Dynkin, E. B.) Mathematische Unterhaltungen. II. Aufgaben aus der Zahlentheorie. Aus dem Russischen übertragen von Peter Friedel. Wissenschaftliche Redaktion von Brigitte Mai. Dritte, durchgesehene Auflage. Kleine Ergänzungsreihe zu den Hochschulbüchern für Mathematik, Band XIV. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1966. ix + 124 *pp.* (Editors) 35 #2b

* (with Dynkin, E. B.) Mathematische Unterhaltungen. III. Aufgaben aus der Wahrscheinlichkeitsrechnung: Irrfahrten (Markoffsche Ketten). Aus dem Russischen übertragen von Peter Friedel. Wissenschaftliche Redaktion von Brigitte Mai. Dritte, durchgesehene Auflage. Kleine Ergänzungsreihe zu den Hochschulbüchern für Mathematik, Band XV. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1966. viii + 84 *pp.* (Editors) 35 #2c

(See also Mathematics in the modern world, 38 #976)

The reducibility of computable and potentially computable numerations. (Russian) *Mat. Zametki* 6 (1969), 3-9. (R. M. Baer) 41 #58

Uspenskiĭ, W. A. See Uspenskiĭ, V. A.

Uspenskij, V. A. See Uspenskiĭ, V. A.

Ustina, Fred

The Hausdorff means for double sequences. *Canad. Math. Bull.* 10 (1967), 347-352. (B. E. Rhoades) 35 #4640

Gibbs phenomenon for functions of two variables. *Trans. Amer. Math. Soc.* 129 (1967), 124-129. (S. Izumi) 35 #4675

A remark on the Gibbs phenomenon and Lebesgue constants for a summability method of Melikov. *Canad. Math. Bull.* 11 (1968), 301-303. (L. Lorch) 37 #6680

Convergence of the Hausdorff means of double Fourier series. *Canad. Math. Bull.* 11 (1968), 585-591. (G. C. N. Kulshrestha) 39 #3237

Convergence of double Fourier series. *Ann. Mat. Pura Appl.* (4) 85 (1970), 21-47. (R. P. Soni) 41 #8928

Gibbs phenomenon for the Hausdorff means of double sequences. *J. Austral. Math. Soc.* 11 (1970), 169-185. (R. A. Askey) 41 #7377

Ustinov, Ju. A.

(with Poljakov, N. A.) Asymptotic behavior of the solution of the problem in the theory of elasticity for the spherical shell under uneven loadings. *Prikl. Mat. Meh.* 32 (1968), 159-167 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 151-159. (N. Zitron) 38 #5421

Ustinov, Ju. K.

A certain class of plane mappings. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 189 (1966), 104-110. (J. E. Miller) 37 #5381

Ustinov, N. N.

(with Sermons, G. Ja.) On the question of the calculation of the eigenvalues of the Mathieu equation. (Russian. English summary) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1971, *no.* 2, 94-98. (T. Čanturija) 44 #4916

Ustjužaninov, A. D.

(with Sitnikov, V. M.) Finite groups with three classes of noninvariant subgroups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 94-102 (1967). (E. Schenkman) 36 #3872

Finite groups with invariant acyclic subgroups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6, *tetrad'* 1, 107-123 (1967). (K. Strambach) 36 #2690

The finite *p*-groups whose commutant of each proper subgroup is metacyclic. (Russian) *Sibirsk. Mat. Ž* 12 (1971), 844-854. (D. I. Zaĭcev) 44 #6840

Usui, Tunemaru

Dynamics of quantum statistical condensate. Derivation of two-fluid theory. *Progr. Theoret. Phys.* 32 (1964), 190-206. (O. Penrose) 32 #7111

Utgoff, V. A.

(with Kashyap, R. L.) A pursuit and evasion problem with measurement uncertainty. *J. Optimization Theory Appl.* 6 (1970), 68-87. (Authors' summary) 42 #7293

Uthoff, Vincent A.

An optimum test property of two well-known statistics. *J. Amer. Statist. Assoc.* 65 (1970), 1597-1600. (Author's summary) 42 #8611

Utiyama, Ryōyū

Quantum theory and general relativity. *Progr. Theoret. Phys.* 33 (1965), 524-537. (H. Treder) 31 #4578

Utkin, A. I.

(with Mihaĭlov, V. N.) Teh application of Volterra's method to the solution of mixed problems for the wave equation. (Russian) *Izv. Akad. Nauk SSSR Ser. Meh. Židk. Gaza* 1970, *no.* 1, 143-147. (L. A. Mysak) 44 #1947

Utkin, G. A.

(with Gudkov, D. A.; Taĭ, M. L.) A complete classification of indecomposable curves of the fourth order. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 222-256. (M. Decuyper) 33 #6494

Topological classification of non-singular fourth-order surfaces. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 40-43. (M. Decuyper) 35 #6672

A connection between fourth order surfaces and sixth order curves. (Russian) The topology of sixth order curves and fourth order surfaces (on the sixteenth Hilbert problem). *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 87 (1969), 154-176. (A. H. Wallace) 41 #5364a

The topological classification of nonsingular fourth order surfaces. (Russian) The topology of sixth order curves and fourth order surfaces (on the sixteenth Hilbert problem). *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 87 (1969), 177-195. (A. H. Wallace) 41 #5364b

Construction of certain types of nonsingular fourth order surfaces. (Russian) The topology of sixth order curves and fourth order surfaces (on the sixteenth Hilbert problem). *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 87 (1969), 196-211. (A. H. Wallace) 41 #5365

Utkin, V. I.

(with Petrov, B. N.; Emel'janov, S. V.) Principles for the construction of invariant automatic-control systems with variable structure. *Dokl. Akad. Nauk SSSR* 154 (1964), 1294-1296 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 127-128. 31 #6705

(with Emel'janov, S. V.) On the stability of motion of a class of automatie control systems with variable structure. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 2, 140-142. (C. S. Coleman) 30 #1875

(with Emel'janov, S. V.; Taran, V. A.) Hitting of the sliding plane by a representing point in systems with variable structure. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 3, 132-138. (H. A. Antosiewicz) 33 #2435

(with Emel'janov, S. V.) Invariant solutions of differential equations with discontinuous coefficients. Design principles of variable structure control systems. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif.,* 1967), *pp.* 450-459. *Academic Press, New York,* 1967. (M. Zelikin (RŽMat 1968 #10 B490)) 42 #7337

Utumi, Yuzo

On prime *J*-rings with uniform one-sided ideals. *Amer. J. Math.* 85 (1963), 583-596. (E. H. Batho) 30 #4792

A note on rings of which any one-sided quotient rings are two-sided. *Proc. Japan Acad.* 39 (1963), 287-288. (J. Dieudonné (Zbl 115, 259)) 32 #4153

(with Faith, Carl) Quasi-injective modules and their endomorphism rings. *Arch. Math.* 15 (1964), 166-174. (R. E. Johnson) 29 #3503

(with Faith, Carl) Baer modules. *Arch. Math.* 15 (1964), 266-270. (E. H. Batho) 30 #2043

(with Faith, Carl) Maximal quotient rings. *Proc. Amer. Math. Soc.* 16 (1965), 1084-1089. (D. Zelinsky) 32 #125

(with Faith, Carl) On Noetherian prime rings. *Trans. Amer. Math. Soc.* 114 (1965), 53-60. (M. Nagata) 30 #3111

On continuous rings and self injective rings. *Trans. Amer. Math. Soc.* 118 (1965), 158-173. (C. W. Curtis) 30 #4793

On the continuity and self-injectivity of a complete regular ring. *Canad. J. Math.* 18 (1966), 404-412. (E. J. Taft) 36 #6457

Self-injective rings. *J. Algebra* 6 (1967), 56-64. (E. J. Taft) 35 #219

Utz, Roy. See Utz, W. Roy.

Utz, W. Roy

Some fifth degree Diophantine equations. *Math. Mag.* 38 (1965), 161-163. (R. P. Bambah) 31 #3381

Properties of solutions of $u'' + g(t)u^{2n-1} = 0$. II. *Monatsh. Math.* 69 (1965), 353-361. (P. Waltman) 33 #1554

The embedding of a linear discrete flow in a continuous flow. *Colloq. Math.* 15 (1966), 263-270. (W. H. Gottschalk) 34 #2000

(with Gillespie, Frank S.) A generalized Langford problem. *Fibonacci Quart.* 4 (1966), 184-186. (L. K. Durst) 36 #57

The behavior of solutions of the equations $x'' \pm xx'^2 \pm x^3 = 0$. *Amer. Math. Monthly* 74 (1967), 420-423. (S. P. Hastings) 35 #472

Nonperiodicity of solutions of a third order equation. *Amer. Math. Monthly* 74 (1967), 705-706. (Marko Švec) 35 #4514

(with Waltman, Paul) Asymptotic almost periodicity of solutions of a system of differential equations. *Proc. Amer. Math. Soc.* 18 (1967), 597-601. (R. A. Struble) 35 #3159

Properties of solutions of certain nonlinear differential equations of the form $x'' + g(x)x'^2 + f(x) = 0$. *Ann. Mat. Pura Appl.* (4) 81 (1969), 61-68. (H. K. Wilson) 39 #7219

Oscillating solutions of third order differential equations. *Proc. Amer. Math. Soc.* 26 (1970), 273-276. (T. A. Burton) 41 #7208

Periodic solutions of a nonlinear second order differential equation. *SIAM J. Appl. Math.* 19 (1970), 56-59. (G. R. Sell) 43 #2299

The nonoscillation of a solution of a third order equation. *SIAM J. Math. Anal.* 1 (1970), 535-537. (James S. Muldowney) 43 #2294

Jusitalo, S.

Smooth surface interpolation. (Finnish. English summary) *Arkhimedes* 1964, *no.* 2, 11-15. (Author's summary) 30 #5466

Jvarov, V. B.

* (with Nikiforov, A. F.; Levitan, Ju. L.) Таблицы коэффициентов Рака. (Russian) [Tables of Racah coefficients] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1962. 320 *pp.* (L. C. Biedenharn) 29 #1941

* (with Nikiforov, A. F.; Levitan, Ju. L.) Tables of Racah coefficients. Translated by Prasenjit Basu. Mathematical Tables Series, Vol. 36. A Pergamon Press Book. *The Macmillan Co., New York,* 1965. xx + 319 *pp.* (Editors) 34 #2298

(with Aldonjasov, V. I.) The phase method for determination of eigenvalues for the Schrödinger equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 436-440. (L. B. Rall) 35 #5200

Asymptotic properties of the solutions of linear differential equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 4 (1968), 659-663. (M. Švec) 37 #5506

Asymptotic properties of the solutions of systems of integral equations on the half axis. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 506-509. (A. Pelczar) 38 #1487

The eigenfunction expansion of a differential equation of the form $y'' + \lambda y = [c/x^2 + q(x)]y$. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1075-1093. (J. B. Butler, Jr.) 42 #2084

The connection between systems of polynomials that are orthogonal with respect to different distribution functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1253-1262. (K. Tandori) 41 #7369

Asymptotic properties of the solutions of integral equations with kernels $K(x,s)$ that are equal to zero when $x - s \geq a$. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 340-351. (A. Pelczar) 42 #6543

The connection of the spectral theory of differential equations on the halfaxis with the theory of orthogonal polynomials. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1394-1408. (R. C. Gilbert) 43 #6497

Uzakov, Ju. K.

Transversal derivatives of curve and surface fields. II. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 9 (1960), 3-16. (Editors) 41 #931

On integro-differential equations admitting primitive and imprimitive groups. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 19 (1964), 20-53. (V. Nemyckiĭ (RŽMat 1965 #4 B305)) 34 #579

(with Zijaev, K. G.) Review of the literature on the history of mathematics published in Uzbek. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 19 (1964), 152-160. 33 #5422

* Конструкция обыкновенных интегро-дифференциальных уравнений, допускающих группы Ли. (Russian) [Construction of ordinary integro-differential equations which admit Lie groups] Tashkent Textile Institute. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. 72 *pp.* (F. Smithies) 40 #7393

Uzawa, Hirofumi

(with Goldman, S. M.) A note on separability in demand analysis. *Econometrica* 32 (1964), 387-398. (A. C. Williams) 34 #1081

Uzawa, Masakatsu

Regular points of analytic sets. *J. College Arts Sci. Chiba Univ.* 5 (1967), *no.* 1, 9-11. (S. Hitotumatu) 38 #4715

On Cousin I problem in a domain excluding an analytic set. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 9, 189-192 (1968). (J. Kajiwara) 37 #465

Some gaps in analytic rings on complex spaces. *J. College Arts Sci. Chiba Univ.* 5 (1968), *no.* 2, 219-222 (1969). (S. Hitotumatu) 40 #4476

Uzdalev, A. I.

Distribution of the temperature stresses in an elliptic anisotropic plate. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 3 (52), 171-177. (Z. Kączkowski) 33 #8146

Uždavinis, R. V. See Uždavinys, R.

Uždavinys, R.

On the problem of distribution of additive arithmetical functions of polynomials over the integers. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960) *(Russian), pp.* 125-127. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (J. Kubilius) 32 #7539

An analogue of the Erdős-Wintner theorem for the sequence of values of an integral polynomial. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 329-338. (W. Schwarz) 37 #4041

Uzes, C. A.

Gauge fields with positive-definite energy density. *J. Mathematical Phys.* 12 (1971), 716-723. (M. Carmeli) 44 #6240

Uzunov, Mihail

(with Dimitrov, Bojan) Renewal theory. (Bulgarian) *Fiz.-Mat. Spis. B"lgar. Akad. Nauk.* 11(44) (1968), 259-276. (From the authors' introduction) 38 #5304

Uzunov, V.

(with Nedjalkov, I.) The equations of the two-dimensional gravimetry problem. (Russian) *C. R. Acad. Bulgare Sci.* 21 (1968), 1013-1016. (Z. Nádeník) 42 #8864

Vaarmann, O.

Certain iteration methods with successive approximation of the inverse operator. I, II. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 17 (1968), 379-390; *ibid.* 18 (1969), 14-21. (C. de Boor) 44 #7696

van der Vaart, H. Robert

A note on Wilks' internal scatter. *Ann. Math. Statist.* 36 (1965), 1308-1312. (C. Hayashi) 31 #2790

Variational principle for certain nonconservative systems. *Amer. J. Phys.* 35 (1967), 419-423. (Author's summary) 35 #2531

Determining the absolutely continuous component of a probability distribution from its Fourier-Stieltjes transform. *Ark. Mat.* 7, 331-342 (1968). (R. G. Laha) 38 #3695

(with Yen, Elizabeth H.) Weak sufficient conditions for Fatou's lemma and Lebesgue's dominated convergence theorem. *Math. Mag.* 41 (1968), 109-117. (T. P. Srinivasan) 38 #1231

Vacaliuc, Iosif

Démonstration de quelques théorémes concernant l'addition et la multiplication dans l'arithmétique à logique élémentaire. *An. Univ. Bucureşti Ser. Acta Logica* 9 (1966), 217-241. 34 #5666

Vacca, Jacopa

Sull'equilibrio radiativo magnetodinamico di una massa gassosa sferica uniformemente rotante e gravitante. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 97 (1962/63), 1014-1026. (Author's summary) 29 #1967

Moto idromagnetico piano stazionario ed irrotazionale di una corrente fluida che investe un profilo rigido circolare. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 959-976. (P. L. E. Uslenghi) 32 #8668

Vacca, Maria Teresa

Sui sistemi anolonomi riducibili a forme lagrangiane. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 375-382. (L. A. MacColl) 29 #4241

Moto di una particella elettrizzata in un campo elettromagnetico a simmetria assiale. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 167-176. (N. D. SenGupta) 31 #1880

Su un caso particolare del problema ristretto dei tre corpi: Il lancio di un missile verso la luna. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 671-688. (E. Leimanis) 32 #3329

Sul limite di Poincaré per una massa fluida di alta conduttivitá elettrica uniformemente rotante in cui si genera un campo magnetico. *Boll. Un. Mat. Ital.* (3) 19 (1964), 127-137. (H. C. Kranzer) 29 #4404

Sulla risoluzione col metodo di Jacobi del problema del moto di un satellite artificiale soggetto all'attrazione terrestre e lunare. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 100 (1965/66), 519-540. (E. Leimanis) 34 #2235

Sugli esponenti caratteristici di una particolare equazione differenziale del secondo ordine a coefficienti periodici. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 101 (1966/67), 445-455. (F. M. Arscott) 36 #1744

Vacca, Roberto

(with Gross, W.) Distribution of the figures 0 and i in the various orders of binary representations of kth powers of integers. *Math. Comp.* 22 (1968), 423-427. (H. Gupta) 37 #1307

Vaccaro, Giuseppe

Sulla nozione di vertice di una superficie. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 401-406. (A. M. Garsia) 32 #6335

Sulle corrispondenze puntuali tra due spazi proiettivi. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 409-429. (E. Bompiani) 31 #3910

Alcune proprietà locali delle varietá differenziabili. *Rend. Mat. e Appl.* (5) 24 (1965), 61-79. (W. Klingenberg) 33 #7967

Vaccaro, Michelangelo

(with Abeasis, Silvana) Interpretazione omotopica della coomologia di Čech a coefficienti in un prefascio. *Ann. Mat. Pura Appl.* (4) 65 (1964), 167-189. (G. Hirsch) 31 #2721

(with Sorani, Giuliano) Omologia a coefficienti in un fibrato. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 387-395. (A. H. Clark) 36 #5935

Omotopie ammissibili. *Rend. Mat. e Appl.* (5) 24 (1965), 122-139. (J. A. Zilber) 34 #5087

Vachani, Mohan

Determining optimum reject allowances for deteriorating production systems. *Naval Res. Logist. Quart.* 16 (1969), 275-286. (Author's summary) 40 #5247

Vachaspati

(with Punhani, Sudarshan L.) Electromagnetic field of a charged particle in uniformly accelerated motion. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 501-519. (F. Rohrlich) 29 #4508

Vachenauer, Peter

Ein Estimationsproblem der linearen Approximationstheorie beim Ausgleich statistischer Messwerte. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 336-352. (Author's summary) 39 #7758

(with Albrecht, R. F.) On the equivalence of systems of partial differential equation. *Monatsh. Math.* 71 (1967), 354-368. (H. H. Johnson) 36 #6758

Die Darstellung holomorpher Funktionen durch Laplace-Maße in der komplexen Zahlenebene. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1968, *Abt.* II, 45-78 (1969). (J. L. Fields) 41 #5605

Vachino, Rinaldo F.

Steepest descent with inequality constraints on the control variables. *SIAM J. Control* 4 (1966), 245-261. 32 #7296

Vackičev, Ljudmil

A demagnetized field and a scattering field in a thin magnetic layer. (Bulgarian. French summary) *Annuaire Univ. Sofia Fac. Phys.* 63 (1968/69), 189-197 (1971). 43 #8297

Vačnadze, R. G.

An iterative method of search for the global extremum of a function of several variables. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 60 (1970), 669-672. (B. R. Poljak) 44 #2319

Vacroux, André G.

(with Thompson, William M.) Application of Pontryagin's tim lag stability criterion to force-reflecting servomechanisms. 196 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 432-443. *Inst. Electr. Electron. Enginee New York,* 1968. (Editors) 40 #312

(with Banas, James F.) Comments on "Optimization of discret -time systems with combined modulation". *IEEE Trans. Automatic Control* AC-14 (1969), 214-215. (Authors' summary) 39 #7978

(with Priemer, Roland) Estimation in linear discrete systems with multiple time delays. *IEEE Trans. Automatic Control* AC-14 ((1969), 384-387. (Authors' summary) 40 #7013

(with Banas, J. F.) Optimal piecewise constant control of continuous time systems with time-varying delay. (French, German and Russian summaries) *Automatica—J. IFAC* 6 (1960), 809-811. (Authors' summary) 42 #9000

(See also Farooq, M.; Mahalanabis, A. K., 44 #4834)

Vaculín, Jaroslav

(with Dvořák, Stanislav) The choice of subgraphs from the oriented acyclic graph. (Czech. English summary) *Ekonom.-Mat. Obzor* 5 (1969), 454-464. (J. Bosák) 41 #5245

Văduva, I.

(with Creangă, A.) Response surfaces and the theory of regression. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Stud. Cerc. Mat.* 14 (1963), 307-314. (Authors' summary) 31 #6317

Estimation of a density of distribution in *k*-dimensions. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Stud. Cerc. Mat.* 14 (1963), 653), 653-660. (R. H. Berk) 32 #1807

On the estimation of the density of a sum of independent variables. (Romanian. Russian and French summaries) *Com. Acad. R. P. Romîne* 13 (1963), 583-588. (K. Krickeberg) 31 #833

(with Theodorescu, R.) On multivariate optimal sampling inspection plans. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 9(57) (1965), 235-245 (1966). (A. K. Gayen) 37 #4915

On estimation of distribution densities of a stationary process in the large sense. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 455-460. (K. Krickeberg) 40 #2206

On estimation of non-linear regression. Colloque sur les Techniques de Calcul et les Calculateurs (Bucharest, 1967) *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 1, 133-139. (D. S. Adorno) 38 #5351

(with Theodorescu, R.) Ein demographisch-mathematisches Modell der Fachleutedynamik. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 227-237 (1969). (M. R. Neuts 40 #5277

Contributions to the theory of statistical estimation of probability density functions and applications. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1207-1276. (M. Iosifescu) 43 #1327

(with Ivan, C.) On the distribution of the coefficient of variation. (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 1047-1062. (P. Holgate) 43 #1303

Vafa al-Buzdžani, Abu-l See Abū al-Wafā' al-Buzjānī

Vagabov, A. I.

Correctness of the Cauchy problem for a class of systems of linear differential equations. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1964, *no.* 3, 63-66. (C. Kallina) 36 #1827

Solution of mixed problems for regions with angular lines. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 25 (1969), *no.* 1, 3-6. (P. C. Fife) 41 #8821

Solution of mixed problems for parabolic equations with discontinuous coefficients and boundaries with angular curves. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 3, 8-11. (R. Styš) 43 #7782

A certain plane boundary value problem for an elliptic equatio with parameter in the case of a nonsmooth boundary. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 26 (1970), *no.* 1, 9-12. (M. A. Atahodžaev) 41 #8822 (with Džavadov, M. R.) A certain boundary value problem for a second order elliptic system in a half strip. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 513-516. (M. A. Atahodžaev) 43 #3619

aghi, Carla

Sulla regolarizzazione delle soluzioni dell'equazione non omogenea delle onde. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 96 (1962), 883-902. (C. R. DePrima) 29 #363

Soluzioni *C*-quasi-periodiche dell'equazione non omogenea delle onde. *Ricerche Mat.* 12 (1963), 195-215. (J. Nieto) 29 #3753

(with Ricci, Maria Lavinia) Soluzioni quasi-periodiche di una equazione funzionale. *Ricerche Mat.* 13 (1964), 242-260. (I. Fenyö) 33 #6463

(with Ricci, Maria Lavinia) Soluzioni quasi-periodiche di equazioni funzionali lineari. *Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi, 1965), pp.* 133-139. *Edizioni Cremonese, Rome,* 1966. (J. Prouse) 34 #6357

Sul comportamento asintotico delle soluzioni di equazioni non lineari di tipo parabolico. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 25-31. (G. Prodi) 35 #591

Sul comportamento asintotico delle soluzioni di equazioni non lineari di tipo parabolico. II. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 41 (1966), 169-174. (G. Prodi) 36 #4119

Su una equazione iperbolica con coefficienti periodici i termine noto quasi-periodico. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 100 (1966), 155-180. (J. Prouse) 35 #568

Un complemento alla regolarizzazione del problema misto per l'equazione iperbolica. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 100 (1966), 685-705. (J. Havlová) 35 #1934

Soluzioni limitate, o quasi-periodiche, di un'equazione di tipo parabolico non lineare. *Boll. Un. Mat. Ital.* (4) 1 (1968), 559-580. (N. S. Trudinger) 39 3134

Su un'equazione parabolica con termine quadratico nella derivata z_x. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 104 (1970), 3-23. (P. C. Fife) 43 #6597

Vagholkar, M. K.

(with Tallis, G. M.) Formulae to improve Wald's approximation for some properties of sequential tests. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 74-81. (H. Chernoff) 32 #6634

(with Billard, L.) A sequential procedure for testing a null hypothesis against a two-sided alternative hypothesis. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 285-294. (P. J. Huber) 43 #8185

Vági, Stephen

A remark on Plancherel's theorem for Banach space valued functions. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 305-315. (Z. Ditzian) 40 #3175

(with Korányi, Adam) Intégrales singulières sur certains espaces homogènes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A765-A768. (W. Barth) 44 #4151; erratum, 44, p. 1633

(Korányi, A.; Welland, G. V.) Remarks on the Cauchy integral and the conjugate function in generalized half-planes. *J. Math. Mech.* 19 (1969/70), 1069-1081. (K. T. Hahn) 42 #535

Vagner, B. I.

(with Pokornyĭ, Ju. V.) The transformation of three-address codes. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 2 (1968), 27-30. (S. Kislicyn (RŽMat 1969 #6 V310)) 43 #7251

Vagner, V. V.

The foundations of differential geometry and modern algebra. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961), Vol. I, pp.* 17-29. *Izdat. Akad. Nauk SSSR, Leningrad,* 1963. (D. J. Struik) 29 #6432

The theory of relations and the algebra of partial mappings. (Russian) *Theory of Semigroups and Appl. I (Russian), pp.* 3-178. *Izdat. Saratov. Univ., Saratov,* 1965. (M. Novotný) 35 #109

* Geometria del calcolo delle variazioni. Vol. II. Centro Internazionale Matematico Estivo (C.I.M.E.), 1° Ciclo, Saltino di Vallombrosa, 21-30 Agosto, 1961. Diretto de Enrico Bompiani. *Edizioni Cremonese, Rome,* 1965. xviii + 172 *pp.* (E. T. Davies) 44 #3167

On the theory of heapoids. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 5 (48), 31-42. (B. M. Schein (Šaĭn)) 33 #4173

Shifts in a heapoid. *(Russian) Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 37-47. (S. Lajos) 34 #1436

Generalized heapoids and heapoids and their applications. (Russian) *Interuniv. Sci. Sympos. General Algebra (Russian), pp.* 7-12. *Tartu. Gos. Univ., Tartu,* 1966. (Št. Schwarz) 34 #2755

On the theory of generalized heapoids. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 6 (55), 25-39. (B. M. Schein (Šaĭn)) 34 #2756

On the algebraic theory of coordinate atlases. (Russian) *Trudy Sem. Vektor. Tensor. Anal.* 13 (1966), 510-563. (B. M. Schein (Šaĭn)) 35 #110

} Generalized heaps and canonically ordered heapoids. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 8-19. (B. M. Schein (Šaĭn)) 35 #5542

Diagramizable semigroupoids and generalized groupoids. (Russian) *Izv Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 11-23. (L. Procházka) 36 #3908

Algebraic questions in the general theory of partial connections in fibered spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 11 (78), 26-40. (M. C. Chaki) 40 #6431

On the algebraic theory of coordinate atlases. II. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 14 (1968), 229-281. (B. M. Schein (Šaĭn)) 40 7183

Binary-decomposable categories. (Russian) *Izv. Vysš. Učebn. Matematika* 1969, *no.* 4 (83), 3-13. (J. Wiegold) 40 #4337

Localized categories. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 11 (90), 24-36. (B. M. Schein (Šaĭn)) 41 #131

t-simple representations of antigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 9 (112), 18-29. (B. M. Schein (Šaĭn)) 44 #6866

Vaguelsy, Daniel

Exhaustivité asymptotique et sous-tribus convergentes. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A764-A766. (H. Bergström) 36 #3390

(with Martin, Françoise) Convergence des transitions *a posteriori*. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A49-A50. (H. Chernoff) 40 #960

Vahabov, G. O.

A numerical-analytic method of investigation of periodic systems of integro-differential equations. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 675-683. (L. Finkelstein) 41 #773

On the question of the basis of the method of averaging for integro-differential equations. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 810-815. (J. A. Morrison) 40 #6220

Vahanija, N. N.

A special problem for an equation of mixed type. (Georgian. Russian summary) *Trudy Vyčisl. Centra Akad. Nauk Gruzin. SSR* 3 (1963), 69-80. (M. Zerner) 32 #2750

On normal distributions in l_p spaces. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 737-738. (R. G. Laha) 30 #606

Sur une propriété des répartitions normales de probabilités dans les espaces $l_p(1 \leq p > \infty)$ et *H*. *C. R. Acad. Sci. Paris* 260 (1965), 1334-1336. (S. M. Berman) 30 #4282

Sur les répartitions de probabilitiés dans les espaces de suites numériques. *C. R. Acad. Sci. Paris* 260 (1965), 1560-1562. (S. M. Berman) 30 #4283

On the stability of spinning of a top with a liquid filled cavity. *Prikl. Mat. Meh.* 29 (1965), 35-45 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 36-47 (1966). (L. M. Hocking) 33 #5206

On non-degenerate probability distributions in the space $l_p(1 \leq p < \infty)$. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 524-528. (E. M. Klimko) 34 #2046

(with Kandelaki, N. P.) A stochastic integral for operator-valued functions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 582-585. (K. Krickeberg) 36 #2211

A probabilistic problem for the one-dimensional heat equation. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 727-729. (J. J. Mehlberg) 36 #7220

(with Karcivadze, I. N.) A remark on the intersection of a sequence of imbedded closed sets. (Russian) *Mat. Zametki* 3 (1968), 165-170. (A. Alexiewicz) 38 #4971

(with Kandelaki, N. P.) Estimate of the speed of convergence in the multidimensional central limit theorem. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 50 (1968), 237-276. (D. A. Darling) 37 #4858

(with Kandelaki, N. P.) Distribution of a scalar product of Gaussian random vectors. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 50 (1968), 535-540. (L. Schmetterer) 39 #993

The covariance operator of a probability distribution in a Banach space. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 51 (1968), 35-40. (Z. Šidák) 41 #4601

A certain condition for the existence of the Pettis integral. (Russian) *Studia Math.* 29 (1968), 243-248. (M. M. Day) 37 #368

A certain question on probability distributions in a Banach space. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Mohsen. Anotacie* 1 (1969), 37-39. (R. M. Dudley) 42 #8534

On the covariance of random elements in linear spaces. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 53 (1969), 17-20. (Z. Šidák) 41 #4602

The covariation of a stochastic element in a Banach space. (Russian) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 2 (1969), 179-184. (R. M. Dudley) 42 #8533; erratum, 43, p. 1697

(with Čobanjan, S. A.) Processes stationary in the broad sense with values in a Banach space. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 57 (1970), 545-548. (M. R. Leadbetter) 42 #6935

Vahaniya, N. N. See Vahanija, N. N.

Vaher, F. S.

The general form of a linear functional on a Banach space of analytic functions and the *A*-integral. (Russian) *Dok. Akad. Nauk SSSR* 166 (1966), 518-521. (J. Peetr) 32 8203

(The sign } indicates an entry in the supplement.)

Vahle, H.

(with Tews, G.) Wahrscheinlichkeiten einer χ^2-Verteilung. (English summary) *Biometrische Z.* 11 (1969), 175-202. (*loose errata*) (M. E. Wise) 44 #3417

Vahl Olsen, T.

Analysis of elastic structures on digital computers. *Nordisk Tidskr. Informations-Behandling* 3 (1963), 257-272. (G. R. Verma) 29 #4308

Vahovskiĭ, E. B.

On the characteristic numbers of incidence matrices for non-singular graphs. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 44-49. (F. Dejean) 31 #1209

A certain method of dismantling a graph. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 255-263. (H. Sachs) 37 #3952

Vahrameeva, L. A.

Conformal projections that are obtained by means of harmonic polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot.* 1969, *no.* 1, 111-116. (R. Kühnau) 44 #1392

Vahutinskiĭ, I. Ja.

Unitary representations of the group GL(3, *R*) of real nondegenerate matrices of the third order. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 21-22. (A. Hulanicki) 35 #3005

Unitary irreducible representations of the group GL(3, *R*) of real matrices of the third order. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 303-320. (A. J. Coleman) 36 #5267

Vai, Giovanni Luigi

Un'estensione del teorema di Staudt. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 225-231. (D. Gallarati) 31 #3911

Gruppi massimali di sostituzioni involutorie. *Univ. e Politec. Torino Rend. Sem. Mat.* 27 (1967/68), 259-281. (Graham Higman) 39 #4262

Vaĭc, B. E.

Characteristic properties of unconditional bases and theorems of stability. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 24-36. (A. Dvoretzky) 34 #6496

Vaida, Dragoş

Idéaux isolés gauches nilpotents et radical isolé. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 257-260 (1964). (R. S. Pierce) 33 #75

Un problème de G. Birkhoff. (Russian summary) *C. R. Acad. Bulgare Sci.* 15 (1962), 801-803. (G. Birkhoff) 29 #3530

Relations de récurrence pour le fonctionnement séquentiel de certains circuits électroniques. (Romanian. Russián and French summaries). *Com. Acad. R. P. Romîne* 12 (1962), 189-194. (Author's summary) 30 #5891

*Некоторые результаты относительно алгебраических частично упорядоченных систем. (Russian. French summary) [Some results on algebraic partially ordered systems] *Acad. R. P. Romîne Inst. de Fizica Atomică, Report EC/7, Bucharest*, 1964. 17 *pp.* (B. M. Schein (Šaĭn)) 31 #5821

Groupes ordonnés dont les éléments admettent une decomposition jordanienne généralisée. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 929-948. (P. F. Conrad) 31 #5907

Certain results concerning algebraic partially ordered systems. (Russian. French summary *B"lgar. Akad. Nauk. Otd. Mat. Fiz. Nauk. Izv. Mat. Inst.* 9 (1966), 227-236. (S. P. Bandyopadhyay) 35 #6598

Vaida, Igor

A synchronization method for totally ergodic channels. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965). *pp.* 611-625. *Academia, Prague,* 1967. (F. Jelinek) 36 #1235

Vaidya, A. M.

(with Gupta, Hansraj) The number of representations of a number as a sum of two squares. *Amer. Math. Monthly* 70 (1963), 1081-1082. (M. V. Subbarao) 29 #5794

A congruence property of $\overline{C}_k(n)$. *Amer. Math. Monthly* 72 (1965) 38-40. (L. Carlitz) 30 #1086

(with Gioia, A. A.) The number of squarefree divisors of an integer. *Duke Math. J.* 33 (1966), 797-799. (W. Schwarz) 34 #2538

On complementing sets of nonnegative integers. *Math. Mag.* 39 (1966), 43-44. (T. M. Apostol) 32 #7485

On the order of the error function of the square-free numbers. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 196-201. (T. M. Apostol) 40 #2623

(with Gioia, A. A.) Amicable numbers with opposite parity. *Amer. Math. Monthly* 74 (1967), 969-973. (T.M. Apostol) 36 #3711 (E)

On primes in A. P. *Math. Mag.* 40 (1967), 29-30. (B. M. Stewart) 35 #124

Some congruence properties of indices. *Vidya* 10 (1967), *no.* 1, 179-181. (A. Peluso) 40 #1327; erratum, 41, p. 1964

On the sequence of triangular numbers modulo *n*. *Vidya* 10 (1967), *no.* 2, 174-178. (Author's summary) 39 #6809; erratum, 41 p. 1963

(with Gioia, A. A.) Correction to: "Amicable numbers with opposite parity". *Amer. Math. Monthly* 75 (1968), 386. (Editors) 37 #1306

On the changes of sign of a certain error function connected with *k*-free integers. *J. Indian Math. Soc. (N.S.)* 32 (1968), 105-111. (J. H. Jordan) 39 #1414

An inequality for Euler's totient function. *Math. Student* 35 (1967), 79-80 (1969). (D. Rearick) 40 #5535

On factorization nod *n* of the set {1, 2, 3, ..., *n*-1}. *Indian J. Math.* 11 (1969), 67-74. (A. Peluso) 41 #3376

On Mersenne's, Fermat's and triangular numbers. *Math. Student* 37 (1969), 101-103. (E. Karst) 42 #185

On Kaprekar's tests for self numbers. *Math. Student* 37 (1969), 212-214. (L. Carlitz) 42 #186

Vaidya, P. C.

(with Rao, J. Krishna) Gravitational radiation in homogeneous cosmological models with space-sections of constant negative curvature. *Proc. Cambridge Philos. Soc.* 61 (1965), 763-765. (P. G. Bergmann) 31 #1089

An analytical solution for gravitational collapse with radiation. *Astrophys. J.* 144 (1966), 943-952. (Author's summary) 33 #2404

(with Mehra, A. L.; Kushwaha, R. S.) Gravitational field of a sphere composed of concentric shells. *Phys. Rev.* (2) 186 (1969), 1333-1334. (P. G. Bergmann) 40 #5232

Vail, J.

The self-consistent Mathieu problem. *Canad. J. Phys.* 42 (1964), 329-348. (K. K. Gupta) 29 #1949

Vaĭl', V. Ē.

The derivability of the two-element set axiom A2 from the remaining axioms of Bourbaki's set theory. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 54 (1969), 529-531. (D. Monk) 41 #1526

Vaillancourt, Rémi

(with Howland, James L.) Series expansions of induced potentials. *J. Math. Anal. Appl.* 16 (1966), 385-395. (M. Brelot) 34 #6136

A strong form of Yamaguti and Nogi's stability theorem for Friedrichs' scheme. *Publ. Res. Inst. Math. Sci.* 5 (1969), 113-117. (W. J. Sweeney) 41 #3977

(See also Friedrichs, K. O., 44 # 859)

A simple proof of Lax-Nirenberg theorems. *Comm. Pure Appl. Math.* 23 (1970), 151-163. (J. R. Cannon) 41 #2473

On the stability of Friedrichs' scheme and the modified Lax-Wendroff scheme. *Math. Comp.* 24 (1970), 767-770. (Author's summary) 43 #2862

(with Calderón, Alberto P.) On the boundedness of pseudo-differential operators. *J. Math. Soc. Japan* 23 (1971), 374-378. (F. Cardoso) 44 #2096

Vaillant, Alice See Simon-Vaillant, Alice.

Vaillant, Alice Simon See Simon-Vaillant, Alice.

Vaillant, Jean

Caractéristiques multiples et bicaractéristiques des systèmes d'équations aux dérivées partielles linéaires et à coefficients constants. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 225-311. (D. Ludwig) 32 #7919

Théorème d'existence et d'unicité formel pour les équations aux dérivées partielles linéaires avec des données de Cauchy sur un hyperplan caractéristique multiple. *C. R. Acad. Sci. Paris* 261 (1965), 2146-2148. (D. Ludwug) 32 #2717

Caractéristiques multiples et bicaractéristiques des systèmes d'équations aux dérivées partielles linéaires et à coefficients constants. II. Propagation des ondes en théorie unitaire d'Einstein-Schrödinger. *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 2, 1-29. (J. Charles-Renaudie) 35 #1325

Propagation le long de rayons ou bicaractéristiques pour un systéme de deux équations aux dérivées partielles linéaires, à deux inconnues, et à coefficients indéfiniment dérivables, avec des caractéristiques doubles. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1054-A1057. (Author's summary) 33 #2931

Problème de Cauchy caractéristique et propriétés des bicaractéristiques pour certains systèmes d'équations aux dérivées partielles à caractéristiques multiples de multiplicité paire. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A891-A894. (H. Kumano-go) 39 #4516

Données de Cauchy portées par une caractéristique double, dans le cas d'un système linéaire d'équations aux dérivées partielles, rôle des bicaractéristiques. *J. Math. Pures Appl.* (9) 47 (1968), 1-40. (A. Newlander, Jr.) 38 #6209

Polynôme sous-caractéristique et dérivée de Lie de la forme élément de volume. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969) A547-A548. (H. Goldschmidt) 39 #4877

Vaĭnberg, A. M.

Nonlinear equations with monotone operators. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 511-513. (J. Kolomý) 40 #4829

An integral Lipschitz condition for functions of several variables. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 10 (89), 28-32. (J. Král) 41 #3690 ĭnberg, B. R.

The existence and uniqueness over the entire plane of certain elliptic equations. (Russian) *Dokl. Akad. Nauk SSSR* 142 (1962), 14-16. (R. K. Juberg) 29 #1427

(with Grušin, V. V.) Correctly stated problems with the conditions in the infinity for the hypoelliptic operators defined in the whole space. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963), *pp.* 361-368. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (M. Coroi-Nedelcu) 34 #3109

Principles of radiation, limiting absorption and limiting amplitude in the general theory of partial differential equations. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 3 (129), 115-194. (J. Burlak) 35 #4559

(with Grušin, V. V.) Uniformly non-elliptic systems of singular integro-differential equations on compact manifolds. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 518-520. (R. Carroll) 36 #550

(with Grušin, V. V.) Uniformly non-coercive problems for elliptic equations. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 759-762. (A. Kufner) 37 #601

(with Grušin, V. V.) Uniformly nonelliptic problems. I. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 602-636. (R. Carroll) 36 #551

(with Grušin, V. V.) Uniformly nonelliptic problems. II. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 126-154. (R. Carroll) 36 #552

(with Gindikin, S. G.) A strengthened Huygens principle for a certain class of differential operators with constant coefficients. (Russian) *Trudy Moskov. Mat. Obšč.* 16 (1967), 151-180. (E. Gerlach) 37 #3176

Elliptic problems in unbounded domains. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 454-480. (L. Arkeryd) 37 #6601

The analytic properties of the resolvent for a certain class of bundles of operators. (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 259-296. (L. Cattabriga) 39 #1795

The solution of elliptic equations with constant coefficients and right-hand side increasing at infinity. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 1, 41-48. (G. C. Barozzi) 36 #6789

Behavior of the solution of the Cauchy problem for a hyperbolic equation as $t \to \infty$. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 542-578. (O. Horáčk) 39 #5936

aĭnberg, D. V.

(with Itenberg, B. Z.) Cylindrical ribbed shell under the action of end-face discrete forces. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 457-462. (Authors' summary) 29 #1801

aĭnberg, Ju. R.

On the reduction of formal groups with respect to a prime modulus. (Russian) *Sibirsk. Mat. Ž.* 4 (1963), 1263-1270. (W. F. Reynolds) 29 #3586

(with Šafarevič, I. R.; Averbuh, B. G.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraic surfaces. (Russian) *Trudy Mat. Inst. Steklov.* 75 (1965), 1-215. (E. C. Dade) 32 #7557

* (with Šafarevič, I. R.; Averbuh, B. G.; Žižčenko, A. B.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraische Flächen. Redaktion I. R. Šafarevič. Mathematik und ihre Anwendungen in Physik und Technik Reihe A, Band 31. *Akademische Verlagsgesellschaft Geest & Portig K.-G, Leipzig,* 1968. 303 *pp.* (Editors) 37 #6285

Algebraic varieties over fields with differentiation. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 417-444. (Andrzej Białynicki-Birula) 41 #1748

aĭnberg, M. M.

(with Engelsons, J) Implicit analytic operators in locally convex spaces. (Russian. English summary) *Latvijas Valsts Univ. Zinātn. Raksti* 47 (1963), *laid.* 1, 19-27. (G. L. Krabbe) 36 #1993

* Variational methods for the study of nonlinear operators. With a chapter on Newton's method by L. V. Kantorovich and G. P. Akilov. Translated and supplemented by Amiel Feinstein. *Holden-Day, Inc., San Francisco, Calif.-London-Amsterdam,* 1964. x + 323 *pp.* (Editors) 31 #638

Integro-differential equations. (Russian) *Math. Analysis. Theory of Probability. Control* (1962), *pp.* 5-37. *Itogi Nauki, Akad. Nauk SSSR Inst. Naučn. Inform., Moscow,* 1964. (H. P. Thielman) 31 #2578

(with Trenogin, V. A.) On the theory of systems of implicit functions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 137, 217-224 (1964). (J. W. Andrushkiw) 30 #3186

(with Aĭzengendler, P. G) A theory of branching of solutions of non-linear equations in the many-dimensional case. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 543-546. (I. M. Sheffer) 33 #565

(with Aĭzengendler, P. G.) On periodic solutions of non-autonomous systems. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 255-257. (J. K. Hale) 33 #2880

(with Šragin, I. V.) The Hammerstein operator in Orlicz spaces. I (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 17-27. (G. J. Minty) 32 #4568

(with Šragin, I. V.) The Hammerstein operator in Orlicz spaces. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46). 32-37. (R. G. Bartle) 32 #4569

(with Nemyckiĭ, V. V.; Gusarova, R. S.) Operator differential equations. (Russian) *Math. Analysis* 1964 *(Russian), pp.* 165-235. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. (From the authors' introduction) 33 #4500

(with Aĭzengendler, P. G.) Methods of investigation in the theory of branching of solutions. (Russian) *Mathematical Analysis* 1965 *(Russian), pp.* 7-69. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. (I. M. Sheffer) 36 #3188

(with Aĭzengendler, P. G.) Branching of periodic solutions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166, 229-235 (1966). (K. W. Chang) 35 #5709

(with Aĭzengendler, P. G.) The branching of periodic solutions of autonomous systems and of differential equations in Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 9-12. (J. Albrycht) 36 #4106

The bifurcation points of analytic operators. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 188, 195-204 (1967). (J. Albrycht) 40 #3387

Nonlinear equations with potential and monotonic operators. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 747-749. (J. Kolomý) 39 #832

The unconditional extremum of functionals and the convergence of minimizing sequences. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 1243-1246. (L. C. Young) 38 #6421 (E)

(with Aleksandrov, P. S.; Vinograd, R. È.; Demidovič, B. P.) Viktor Vladimirovič Nemyckiĭ. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 2 (140), 179-192. (1 *plate*) (Editors) 36 #4947

Metodo variazionale e metodo di Caccioppoli nella teoria delle equazioni funzionali non lineari. *Symposia Mathematica, Vol. II (INDAM, Rome,* 1968*), pp.* 211-226. *Academic Press, London,* 1969. (J.-P. Gossez) 40 #6318

* (with Trenogin, V. A.) Теория ветвления решений нелинейных уравнений. (Russian) [The theory of branching of solutions of nonlinear equations] *Izdat. "Nauka", Moscow,* 1969. 527 *pp. (errata insert)* (K. R. Schneider) 41 #6029

(with Lavrent′ev, I. M.) Equations with monotone and potential operators in Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 711-714. (Hiroshi Fujita) 42 #5127

(with Aĭzengendler, P. G.) The branching of periodic solutions of differential equations with lag. I, II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 10 (89), 3-10, *ibid.* 1969, *no.* 11 (90), 3-12. (L. J. Grimm) 41 #3936

(with Aĭzengendler, P. G.) The branching of periodic solutions of differential-difference equations. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 495-498. (A. Halanay) 40 #1673

On the application of the variational method in the theory of differential equations. (Russian. Czech summary) *Časopis Pěst. Mat.* 95 (1970), 119-145, 212. (H. Triebel) 42 #8343

Erratum to "The unconditional extremum of functionals and the convergence of minimizing sequences". (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), vii. (Editors) 41 #2495

(with Lavrent′ev, I. M.) The square root of a linear operator in certain Banach spaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 6, 36-46. (A. B. Buche) 44 #7325

Equations with nonlinear accretive and monotone operators and Galerkin-Petrov approximations. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 754-757. (A. I. Şchiop) 43 #7985

Vaĭncvaĭg, M. N.

(with Bongard, M. M.) Valuations of the expected quality of features. *Problemy Kibernet. No.* 20 (1968), 151-157 *(Russian); translated as Systems Theory Res.* 20 (1971), 129-135. (A. L. Zobrist) 44 #4945

Vaĭndiner, A. I.

On the solution of boundary value problems with natural boundary conditions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 110-118. (Author's summary) 33 #3478

A generalization of the Bubnov-Galerkin-Kantorovič method for approximate solution of boundary value problems. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 2, 101-109. 34 #8660

On a new form of Fourier series and the choice of best Fourier polynomials. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 177-185. (D. P. Gupta) 34 #6416

A procedure for solving boundary value problems with similar operators. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 2, 72-78. (A. Langenbach) 38 #4053

The convergence of a certain direct method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 902-908. (W. M. Wonham) 38 #5407

On estimation of the remainder of a generalized Fourier series for differentiable functions of two variables. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 511-513. (Yung-ming Chen) 39 #713

Approximation of continuous and differentiable functions of several variables by generalized polynomials (by finite linear superposition of functions of fewer variables.). (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 483-486. (J. Albrycht) 41 #8890

Vaĭner, E. Ju.

Pogorelov's theorem for complete convex hypersurfaces. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1396-1399. (A. V. Pogorelov) 42 #8429

Vaĭnerman, L. I.

(with Gorbačuk, M. L.) The selfadjointness of semibounded abstract differential operators. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 806-808. (Ju. A. Šaškin) 43 #2567

Vainikko, G.

Certain estimates for the error in the Bubnov-Galerkin method. I. Asymptotic estimates. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 188-201. (I. M. Sheffer) 33 #6865a

Certain estimates for the error in the Bubnov-Galerkin method. II. Estimates of the *n*-th approximation. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised No.* 150 (1964), 202-215. (I. M. Sheffer) 33 #6865b

Asymptotic error bounds for projection methods in the eigenvalue problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 405-425. (A. Alexiewicz) 31 #615

On convergence and stability of the collocation method. (Russian) *Differencial'nye Uravnenija* 1 (1965), 244-254. (Walter Gautschi) 32 #8514

Necessary and sufficient conditions for stability of the Galerkin-Petrov method. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 141-147. (W. V. Petryshyn) 36 #1093

On the question of convergence of Galerkin's method. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 177 (1965), 148-153. (W. V. Petryshyn) 36 #1094

Estimates of the error of the Bubnov-Galerkin method in an eigenvalue problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 587-607. (Tadeusz Leżański) 34 #5271

On the rate of convergence of certain approximation methods of Galerkin type in eigenvalue problems. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 2 (51), 37-45. (Tadeusz Leżański) 33 #6824

On the convergence of the collocation method for nonlinear differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 1, 35-42. (Walter Gautschi) 33 #5129

* (with Sõrmus, T.) Harilikud diferentsiaalvõrrandid. I, II. (Estonian) [Ordinary differential equations. I, II] *Tartu Riikl. Ül., Tartu,* 1967. *I:* 212 *pp; II:* 126 *pp.* (Editors) 36 #5414

The stability of the Galerkin-Petrov method for nonlinear equations. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 1 (1967), 12-15. (I. M. Sheffer) 38 #579

A perturbed Galerkin method and the general theory of approximate methods for nonlinear equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 723-751. (T. Leżański) 36 #1095

Rapidity of convergence of approximation methods in eigenvalue problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 977-987. (J. W. Schmidt) 36 #4798

Similar operators. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1029-1031. (S. Maloň) 37 #5684

(with Umanskiĭ, Ju. B.) Regular operators. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 87-88. (E. Gerlach) 37 #6778

The speed of convergence of the method of moments for ordinary differential equations. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 21-28. (M. Ráb) 36 #7338

The compact approximation of linear completely continuous operators by operators in quotient spaces. (Russian. Estonian and English summaries) *Tartu Riikl. Ül. Toimetised Vih.* 220 (1968), 190-204. (H. Baumgärtel) 41 #2453

(with Dement'eva, A. M.) The rate of convergence of the method of mechanical quadratures in an eigenvalue problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1105-1110. (L. Janos) 40 #6289

* (with Krasnosel'skiĭ, M. A.; Zabreĭko, P. P.; Rutickiĭ, Ja. B.; Stecenko, V. Ja.) Приближенное решение операторных уравнений. (Russian) [Approximate solution of operator equations] *Izdat. "Nauka", Moscow,* 1969. 455 *pp.* (V. Šeda) 41 #4271

Compact approximation of operators and approximate solution of operator equations. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 237-240. (L. A. Janos) 42 #3590

The connection between the mechanical quadrature and finite difference methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 259-270. (E. L. Albasiny) 41 #4853

The principle of compact approximation in the theory of approximate methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 739-761. (A. Buraczewski) 41 #2420

The difference method for ordinary differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1057-1074. (A. Buraczewski) 43 #5748

* Компактная аппроксимация операторов и приближенное ресение уравнений. (Russian) [Compact approximation of operators and approximate solution of equations] *Tartu. Gosudarstv. Univ., Tartu,* 1970. 192 *pp.* (I. K. Marek) 42 #8353

The convergence of the method of mechanical quadratures for integral equations with discontinuous kernels. (Russian) *Sibirsk. Mat. Ž.* 12 (1961), 40-53. (G. F. Miller) 44 #3520

The convergence of quadrature difference methods for linear integro-differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 770-776. (Ulrich Kosel) 44 #4939

Vainshtein, B. K. See Vaĭnšteĭn, B. K.

Vainshtein, L. A. See Vaĭnšteĭn, L. A.

Vaĭnšteĭn, A. G.

Uniform homotopy and proximity invariants. (Russian. Englis summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 1 17-20. (R. J. Bumcrot) 43 #5531

Vaĭnšteĭn, A. I.

A class of infinite-dimensional spaces. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 433-443. (D. W. Henderson) 39 #6281

Vaĭnšteĭn, B. K.

Coupling matrices for structure factors. *Kristallografija* 9 (1964), 7-19 *(Russian); translated as Soviet Physics Cryst.* 9 (1964), 5-12. (Werner Nowacki) 31 #5635

Vaĭnšteĭn, F. A.

On the state of stress of an unbounded orthotropic strip. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 1 (38), 10-13. (N. Cristescu) 29 #780

A mixed problem in elasticity theory for a transversally isotropic cylinder. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 28-32. (H. G. Hopkins) 30 #3624

Vaĭnšteĭn, I. A.

(with Aĭzenštat, N. D.; Kreĭnes, M. A.) On non-rectangular interlacings. (Russian) *Trudy Moskov. Mat. Obšč.* 9 (1960), 537-561. (A. J. Lohwater) 29 #5401

(See also Steenrod, N. E.; Chinn, W. G., 37 #2161 and Korn, Granino A.; Korn, Theresa M., 43 #1782)

Vaĭnšteĭn, I. I.

A certain boundary value problem for vortical and potential flows of an ideal fluid in the axisymmetric case. (Russian) *Differencial'nye Uravnenija* 6 (1970), 109-122. (L. Dragoş) 41 #7913

Vaĭnšteĭn, L. A.

Diffraction in open resonators and open waveguides with plane mirrors. *Ž. Tehn. Fiz.* 34 (1964), 193-204 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 157-165. (Y. Hayashi) 31 #5462

Open resonators with cylindrical mirrors. *Ž. Tehn. Fiz.* 34 (1964), 205-217 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 166-174. (Y. Hayashi) 31 #5463

The excitation of open resonators. *Ž. Tehn. Fiz.* 34 (1964), 1541-1555 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1965), 1197-1206. (J. H. Harris) 33 #3598

Vaĭntrub, M. R.

A cyclic one-dimensional manifold on the conformal plane. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 176 (1964), 107-111. (M. Decuyper) 31 #2676

Circle congruences in Euclidean space. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 143-149. (Z. Nádeník) 36 #3247

The differential geometry of a four-parameter variety of circles in three-dimensional Euclidean space. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 196 (1968), 161-170. (K. Svoboda) 43 #3933

Vaintsvaig, M. N. See Vaĭncvaĭg, M. N.

Vaĭradjan, A. S.

(with Onykiĭ, B. N.; Sumarokov, L. N.) A certain method of estimating the effectiveness of a computing system. (Russian) *Digital Computer Technology and Programming, No.* 4 *(Russian), pp.* 63-71. *Izdat. "Sovetskoe Radio", Moscow,* 1968. (W. Kwasowiec) 43 #5762

Vairavan, K.

Input-output relations of finite memory systems. *Information and Control* 16 (1970), 52-65. (Author's summary) 42 #2890

Väisälä, Jussi

Remarks on a paper of Tienari concerning quasiconformal continuation. *Ann. Acad. Sci. Fenn. Ser. A I No.* 324 (1962), 6 *pp.* (J. A. Kelingos) 29 #243

(with Gehring, F. W.) The coefficients of quasiconformality of domains in space. *Acta Math.* 114 (1965), 1-70. (E. Reich) 31 #4905

Two new characterizations for quasiconformality. *Ann. Acad. Sci. Fenn. Ser. A I No.* 362 (1965), 12 *pp.* (P. Caraman) 30 #4975

Minimal mappings in euclidean spaces. *Ann. Acad. Sci. Fenn. Ser. A I No.* 366 (1965), 22 *pp.* (P. T. Church) 31 #2711

Discrete open mappings on manifolds. *Ann. Acad. Sci. Fenn. Ser. A I No.* 392 (1966), 10 *pp.* (P. T. Church) 34 #814

The invariance of domain under acyclic mappings. *Duke Math. J.* 33 (1966), 679-681. (P. T. Church) 34 #815

The separability of cartesian product. *Colloq. Math.* 17 (1967), 285-288. (S. A. Naimpally) 36 #4523

Does there exist an *n*-dimensional function theory? (Finnish. English summary) *Arkhimedes* 1968, *no.* 2, 11-16. (Author's summary) 38 #6061

(with Martio, O; Rickman, S.) Definitions for quasiregular mappings. *Ann. Acad. Sci. Fenn. Ser. A I No.* 448 (1969), 40 *pp.* (R. J. Cannon, Jr.) 41 #3756

Removable sets for quasiconformal mappings. *J. Math. Mech.* 19 (1969/70), 49-51. (I. Kra) 39 #4385

(with Martio, O.; Rickman, S.) Distortion and singularities of quasiregular mappings. *Ann. Acad. Sci. Fenn. Ser. A I No.* 465 (1970), 13 *pp.* (R. J. Cannon, Jr.) 42 #1995

Vaĭsberg, G. V.

On an iteration method for the solution of a pursuit problem. (Russian) *Diskret. Analiz No.* 4 (1965), 3-9. (R. Rishel) 34 #2360

Vaĭsbord, È. M.

(with Rozenšteĭn, G. Š.) Lifetime of stochastic automata. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 4, 52-59 *(Russian); translated as Engrg. Cybernetics* 1965, *no.* 4, 49-57. (H. D. Block) 34 #5560

The method of successive projections for approximate solution of a problem in optimal control. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 971-980. (W. M. Wonham) 34 #5555

The principle of optimality for minimax problems. (Russian) *Optimal Systems of Automatic Control (Russian)*, *pp.*61-67. *Izdat. "Nauka", Moscow,* 1967. (J. K. Hale) 36 #7425

Asymptotic estimates of the speed of convergence of a random search. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 4, 24-33. (C. E. Langenhop) 35 #7691

(with Judin, D. B.) Multiextremal stochastic approximation. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 5, 3-13 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 5, 1-11 (1969). (M. Rössler) 42 #8895

(with Judin, D. B.) Stochastic approximation for multiextremal problems in Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 1034-1037. (D. A. Darling) 38 #762

Convergence of a method of random search. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 3, 54-59 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 3, 44-48 (1969). (R. F. Albrecht) 40 #5019

Convergence of a certain method of random search for a global extremum of a random function. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 1, 47-49 *(Russian); translated as Engrg. Cybernetics* 1969 *no.* 1, 46-50. (R. R. Coveyou) 40 #3676

Vaĭsleĭb, Ju. V.

The asymptotic representations of incomplete cylindrical functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 758-761. (E. Riekstiņš) 44 #2960

Vaisman, Izu

Surfaces réglées dans l'espace symplectique à trois dimensions. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Iaşi Secţ. I (N.S.)* 9 (1963), 111-125 (P. Drăgilă) 32 #4622

La theorie des surfaces dans l'espace symplectique à trois dimensions. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 129-158. (P. Drăgilă) 32 #6349

Courbes, configurations de Myller et distributions dans les espaces à connexion symplectique. I. *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 417-436. (T. Okubo) 32 #6363

On the geometry of directions of a differentiable manifold. (Romanian. Russian and French summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 249-263. (A. Nijenhuis) 32 #6359

Courbes, configurations de Myller et distributions dans les espaces à connexion symplectique. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11 (1965), 133-162. (T. Okubo) 33 #6544

Une connexion remarquable associée à un réşeau d'une surface. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 521-530. (Y.-C. Wong) 34 #3486

Surfaces holonomes et non holonomes dans les espaces à connexion symplectique à trois dimensions. (Romanian summary) *An. Sti. Univ. "Al. I. Cuza" Iasi Sect. I a Mat. (N.S.)* 12 (1966), 175-183. (A. Švec) 35 #6067

Tenseurs projectifs sur une variété différentiable. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 12 (1966), 347-352. T. Okubo) 37 #4736

Contributions à la géométrie différentielle projective-symplectique. *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. Monograf. No.* 1 (1966), iv + 126 *pp.* (I. Kolář) 37 #5804

Sur quelques formules du calcul de Ricci global. *Comment. Math. Helv.* 41 (1966/67), 73-87. (T. J. Willmore) 34 #6688

An axiomatic construction of plane euclidean geometry. (Romanian) *Gaz. Mat. Ser. A* 71 (1966), 321-329. (H. T. Croft) 35 #4799

Remarques sur la théorie des formes-jet. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A351-A354. (S. Kobayashi) 36 #2078

The curvature groups of a space form. *Ann. Scuola Norm Sup. Pisa* (3) 22 (1968), 331-341. (W. S. Piper) 37 #6955

Les pseudocomplexes de cochaînes et leurs applications géométriques. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 105-136. (V. Havel) 39 #6365 (E)

On the geometry of flag manifolds in a symplectic space. (Russian. Loose English summary) *Czechoslovak Math. J.* 18(93) (1968), 377-387. (M. C. Chaki) 37 #5805

Une remarque sur la méthode de Cartan dans la géométrie différentielle. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 571-574. 38 #2699

Sur la cohomologie des variétés riemanniennes feuilletées. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A720-A723. (C. M. de Barros) 40 #1937

On the geometry of flag manifolds in a symplectic space. II. (Russian) *Czechoslovak Math. J.* 19(94) (1969), 60-66. (M. C. Chaki) 39 #3407

Sur la partie d'une hypersurface, où le tenseur asymptotique est du type hyperbolique normal. *Czechoslovak Math. J.* 19(94) (1969), 750-757. (R. Behari) 40 #3443

Almost-multifoliate Riemannian manifolds. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 97-104. (O. Kowalski) 43 #1075

Sur les structures presque-produit complexe. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 105-116. (O. Kowalski) 43 #1076

Une remarque sur l'article "Les pseudocomplexes de cochaînes et leurs applications géométriques". (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 403-404. (V. Havel) 43 #6914

Connexions remarquables sur les variétés hor-ehresmanniennes. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A1253-A1256. (Y. Mutô) 44 #7503

Variétés riemanniennes feuilletées. *Czechoslovak Math. J.* 21(96) (1971), 46-75. (P. Molino) 44 #4776

Sur une classe de complexes de cochaînes. *Math. Ann.* 194 (1971), 35-42. (T. J. Willmore) 44 #7581

Vaĭtkevičjus, I. M. See Vaĭtkjavičus, I.

Vaĭtkjavičus, I.

On the distribution of prime numbers of an imaginary quadratic field in sectors. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 2, 17-52. (E. Fogels) 29# 4753

On the distribution of Gaussian primes on the plane. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 4 (1964), 477-492. (E. Fogels) 30 #3069

Vajda, Igor

The synchronization problem of information theory. (Czech summary) *Kybernetika (Prague)* 2 (1966), 314-330. (S. Kullback) 34 #5575

A synchronization for composed channels by means of a random coding. (Czech and Russian summaries) *Apl. Mat.* 12 (1967), 373-382. (S. Kullback) 36 #6229

Axiomatic definition of energy of complete or incomplete probability schemes. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), 197-203 (1968). (L. L. Campbell) 37 #5053

Rate of convergence of the information in a sample concerning a parameter. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 225-231. (L. L. Campbell) 35 #6276

On the statistical decision problems with discrete parameter space. (Czech summary) *Kybernetika (Prague)* 3 (1967), 110-126. (H. Chernoff) 35 #6269

On the statistical decision problems with finite parameter space. (Czech summary) *Kybernetika (Prague)* 3 (1967), 451-466. (R. H. Berk) 36 #6058

On the convergence of information contained in a sequence of observations. *Proc. Colloquium on Information Theory (Debrecen, 1967)*, Vol. *II*, *pp.* 489-501. *János Bolyai Math. Soc. Budapest,* 1968. (F. Jelinek) 41 #3172

Axioms for a-entropy of a generalized probability scheme. (Czech. English summary) *Kybernetika (Prague)* 4 (1968), 105-112. (L. L. Campbell) 38 #1947

Bounds of the minimal error probability on checking a finite or countable number of hypotheses. *Problemy Peredači Informacii* 4 (1968), *vyp.* 1, 9-19 *(Russian); translated as Problems of Information Transmission* 4 (1968), *no.* 1, 6-14 (1969). (E. C. Posner) 42 #2587

Note on discrimination information and variation. *IEEE Trans. Information Theory* IT-16 (1970), 771-773. (S. Kullback) 43 #1328; erratum, 44, p. 1632

Vajda, Stefan

* Leçons sur la programmation mathématique. Seconde édition. Traduit par H. Nozet. *Dunod, Paris,* 1965. x + 159 *pp.* (Editors) 31 #4619

* Einführung in die Linearplanung und die Theorie der Spiele. Deutsche Übersetzung aus dem Englischen von Willi Riedler. Zweite Auflage. Beihefte zur Zeitschrift "Elektronische Rechenanlagen", Band 1. *R. Oldenbourg, Munich-Vienna,* 1966. 70 *pp.* (Editors) 35 #2622

Nonlinear programming and duality. *Nonlinear Programming (NATO Summer School, Menton,* 1964), *pp.* 1-18. *North-Holland, Amsterdam,* 1967. (E. M. L. Beale) 36 #1209

* Patterns and configurations in finite spaces. Griffin's Statistical Monographs & Courses, No. 22. *Hafner Publishing Co. New York,* 1967. vii + 120 *pp.* (R. G. Stanton) 37 #3927

* The mathematics of experimental design: Incomplete block designs and Latin squares. Griffin's Statistical Monographs & Courses, No. 23. *Hafner Publishing Co., New York,* 1967. viii + 110 *pp.* (R. G. Stanton) 37 #3928

Vajk, J. Peter

(with Eltgroth, Peter G.) Spatially homogeneous anisotropic cosmological models containing relativistic fluid and magnetic field. *J. Mathematical Phys.* 11 (1970), 2212-2222. (F. A. E. Pirani) 42 #5581

Vajnshtejn, L. A. See Vaĭnšteĭn, L. A.

Vajnštejn, B. K. See Vaĭnšteĭn, B. K.

Vajzović, Fikret

On a functional equation. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Ser. II Društvo Mat. Fiz. Hrvatske* 19 (1964), 217-224. (M. Kuczma) 32 #1471

On the functional equation: $T_1(t + s)T_2(t - s) = T_3(t)T_4(s)$. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 21-27. (I. M. H. Etherington) 30 #3320

On a functional which is additive on A-orthogonal pairs. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 1(21) (1966), 75-81. (G. H. Orland) 34 #8198

Über das Funktional H mit der Eigenschaft: $(x,y) = 0 \Rightarrow H(x + y) + H(x - y) = 2H(x) + 2H(y)$. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 2(22) (1967), 73-81. (P. A. Fillmore) 36 #4326

Einige Funktionalgleichungen im Fréchetschen Raum. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23) (1968), 19-40. (S. Kurepa) 38 #2478

On solution of one functional equation. *Mat. Vesnik* 5(20) (1968), 25-28. (O. Em. Gheorghiu) 37 #4448

Vakarčuk, A. A.

(with Stepanenko, P. T.) Helical surfaces in Lobačevskiĭ space. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp. 29-32. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. C. Chaki) 42 #6700

Vakarčuk, B. S.

On the Clifford mapping of curves and surfaces in an elliptic space. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 521-527. (B. Cenkl) 30 #2422

The Darboux tensor and second-order surfaces in a Lobatchevsky space. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 671-675 (M. Decuyper) 30 #4210

(with Liščinskiĭ, E. F.) The development of investigations in geometry at Dnepropetrovsk State University. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp. 25-28. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. 42 #4371

(with Stepanenko, P. T.) The envelope of a one-parameter family of limit surfaces in Lobačevskiĭ space. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp. 94-101. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. C. Chaki) 42 #6699

(with Stepanenko, P. T.) A certain generalization of cut surfaces. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp. 77-81. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (Z. Nádeník) 42 #8406

Vakarelov, Dimit"r

A propositional calculus with functors for "likelihood" and "doubt". I (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 60 (1965/66), 83-103 (1967). (A. A. Mullin) 36 #3629

A propositional calculus with functors for "likelihood" and "doubt". II. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 61 (1966/67), 47-70 (1968). (A. A. Mullin) 39 #42

Ternary groups. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 61 (1966/67), 71-105 (1968). (K. Drbohlav) 44 #2873

Axioms for n-dimensional Euclidean space. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 62 (1967/68), 273-283 (1969). (J. Cofman) 41 #2509

Algebraic foundations of central symmetry, of rotation and of homothety. (Bulgarian. German summary) *Annuaire Univ. Sofia Fac. Math.* 63 (1968/69), 212-166 (1970). *(loose errata)* (J. Kateřinák) 44 #7416

Vakhania, Nicolas. See Vahanija, N. N.

Vakharia, Dinesh J.

(with Baker, Richard A.) Input-output stability of linear time-invariant systems. *IEEE Trans. Automatic Control* AC-15 (1970), 316-319. (Authors' summary) 43 #1680

Vakrinene, S. P. See Vakrinienė, S.

Vakrinienė S.

An antagonistic dynamic game based on repeating a bimatrix game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 395-397 (1968). (M. Iosifescu) 37 #5039

A dynamic game in which the interests of the players coincide. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 229-234. (M. Iosifescu) 43 #1652

A cooperative dynamic nonantagonistic two-person games. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 453-461. (V. Polák) 43 #2997

Vaks, V. G.

(with Larkin, A. I.) Regge poles in the nonrelativistic problem with nonlocal and singular interaction. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 800-809 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 548-554. (E. Predazzi) 29 #965

(with Larkin, A. I.) On phase transitions of second order. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 975-989 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 678-687. (C. A. Hurst) 33 #7047

Vaksman, V.

Matrices that are encountered in linear economic models. (Russian) *Èkonom. i Mat. Metody* 5 (1969), 619-623. (S. Lebedev (RŽMat 1970 #2 V517)) 43 #5890

Vaksman, V. M.

The Meixner edge condition. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 9 (1969), 50-57. (J. E. Rosenthal) 42 #8778

Vaksman, V. S.

Focal properties of ruled surfaces in N-dimensional projective space. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 222 (1965), 5-12 (A. Švec) 35 #6061

Vakulenko, A. A.

(with Markov, K. Z.) Certain questions of continuum dislocation theory. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.*7, 74-87. (M. Mişicu) 43 #4334

Vakulenko, L. D.

A bibliography of the works of M. A. Lavrent'ev. (Russian) *Certain Problems of Mathematics and Mechanics (On the Occasion of the Seventieth Birthday of M. A. Lavrent'ev) (Russian), pp.* 44-67. *Izdat. "Nauka", Leningrad,* 1970. (J. Burlak) 44 #5203

du Val, Patrick. See Du Val, Patrick.

Vala, Josef

Spezielle Doppelverhältnisscharen auf Regelflächen. (Russian summary) *Mat.-Fyz. Casopis Sloven. Akad. Vied* 15 (1965), 126-142. (R. Roşca) 36 #799

Quadratische Doppelverhältnisscharen auf Regelflächen. *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 257-267. (H. Brauner) 35 #2198

Doppelverhältnisscharen mit zusammenfallenden oder imaginären Grundkurven auf Regelflächen. (Russian and English summaries) *Mat.-Fyz. Casopis Sloven. Akad. Vied* 16 (1966), 337-348. (R. Roşca) 35 #7232

Über den zum Kurvenpaar der Regelfläche konjugierten Komplex. (Czech summary; loose English and Russian summaries) *Časopis Pěst. Mat.* 93 (1968), 47-63, 121. (H. W. Guggenheimer) 38 #3777

Über die Regelflächenpaare mit einer nicht abwickelbaren Quasifleknodalfläche. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 527-559. (H. Brauner) 38 #6475

Über einige spezielle Kongruenzenpaare. (Loose English summary) *Czechoslovak Math. J.* 20(95) (1970), 140-148. (J. Hoschek) 41 #6076

Über die Torsalsysteme des Kongruenzenpaares. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 18-32, 102. (O. Giering) 44 #937

Vala, Klaus

On compact sets of compact operators. *Ann. Acad. Sci. Fenn. Ser. A I No.* 351 (1964), 9 *pp.* (R. G. Bartle) 29 #6333

On a decomposition for operators with closed range. *Ann. Acad. Sci. Fenn. Ser. A I No.* 364 (1965), 8 *pp.* (M. Piazzolla-Beloch) 32 #2915; erratum, 32, p. 1754

Sur les éléments compacts d'une algèbre normée. *Ann. Acad. Sci. Fenn. Ser. A I No.* 407 (1967), 8 *pp.* (B. R. Gelbaum) 36 #5692

A topological construction. (Finnish. English summary) *Arkhimedes* 1967, *no.* 2, 21-23. (Author's summary) 37 #3523

Valabrega, Elda Gibellato

Il teorema di esistenza degli zeri delle funzioni continue nell'analisi moderna. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 437-444. (T. A. Botts) 29 #2340

Dalla aritmo-geometria alla geometria. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 101 (1966/67), 433-444. (J. Vernet) 36 #6251

La questione dell'incommensurabilità della diagonale in N. Oresme. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 105 (1971), 245-250. (K. Vogel) 44 #6426

Valabrega, Paola

Sopra alcune relazioni fra gli spazi topologici e la convergenza dei filtri e delle successioni transfinite. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 104 (1970/71), 261-273. (O. Wyler) 41 #7615 alachi, Al.

Utilisation des fonctions complémentaires dans la synthèse simultanée des fonctions logiques quadratiques. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 15(19) (1969), *fasc.* 3-4, *sect.* III, 49-54. (B. R. Myers) 43 #6012

aladier, Michel

Sur l'intégration d'ensembles convexes compacts en dimension infinie. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A14-A16. (W. A. J. Luxemburg) 37 #3310

(with Castaing, Charles) Équations différentielles multivoques dans les espaces localement convexes. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A985-A987. (A. G. Kartsatos) 38 #392

Sous-différentiels d'une borne supérieure et d'une somme continue de fonctions convexes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A39-A42. (E. Binz) 39 #3310

Sur la commande optimale stochastique en temps discret avec équation d'observation. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A105-A108. (H. J. Kushner) 40 #1180

(with Castaing, Charles) Équations différentielles multivoques dans les espaces vectoriels localement convexes. (Loose English summary) *Rev. Francaise Informat. Recherche Opérationnelle* 3 (1969), *no.* 16, 3-16. (D. E. Edmunds) 40 #506

* Contribution à l'analyse convexe. Thèse de Doctorat d'État es Sciences-Mathématiques présentée à la Faculté des Sciences de Paris pour obtenir le grade de Docteur es-Sciences. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1970, Publication No. 92. *Université de Montpellier, Montpellier,* 1970, iii + 83 *pp.* (Ky Fan) 43 #2506

* Complement sur les équations différentielles multivoques. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, Octobre 1970, Publication No. 95. *Université de Montpellier, Montpellier,* 1970. 16 *pp.* (D. E. Edmunds) 43 #3596

Intégration de convexes fermés notamment d'épigraphes. Inf-convolution continue. (Loose English summary) *Rev. Française Informat. Recherche Opérationnelle* 4 (1970), *Sér.* R-2, 57-73. (A. Appert) 43 #3881

Existence globale pour les équations différentielles multivoques. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A474-A477. (Jagdish Chandra) 43 #5351

(with Ekeland, I.) Representation of set-valued mappings. *J. Math. Anal. Appl.* 35 (1971), 621-629. (C. J. Himmelberg) 43 #6396

alah, V. Ja.

The optimization of the behavior of finite and stochastic sutomata in random media. (Russian) *Theory of Optimal Solutions (Seminar, Kiev,* 1967). *No.* 3 (Russian), *pp.* 3-29. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. (Editors) 39 #6696

aland, R. S.

Invariant interval estimation of a location parameter. *Ann. Math. Statist.* 39 (1968), 193-199. (R. H. Berk) 36 #3445

'alanis, K. C.

(with Lianis, G.) Thermal stresses in a viscoelastic cylinder with temperature dependent properties. *AIAA J.* 2 (1964), 1642-1644. (R. Muki) 29 #6706

Propagation and attenuation of waves in linear viscoelastic solids. *J. Math. and Phys.* 44 (1965), 227-239. (L. W. Morland) 31 #6446

'álatin, Jean G.

Theory of superfluids. *Lectures in Theoretical Physics, Vol. VI (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo.,* 1963*), pp.* 292-872. *Univ. Colorado Press, Boulder, Colo.,* 1964. (P. Roman) 30 #2860

L-Valcárcel, A. R-Grandjeán. See R-Grandjeán L-Valcárcel, A.

/alceev, K. G.

On the theory of the Laplace transformation. (Russian) *Izv. Vysš. Učebn. Zaved. Radiofizika* 8 (1965), 424-426. (M. Mişicu) 33 #1549

le Valcourt, B. Abel.

Measures of axial symmetry for ovals. *Bull. Amer. Math. Soc.* 72 (1966), 289-290. (G. D. Chakerian) 32 #4596

Measures of axial symmetry for ovals. *Israel J. Math.* 4 (1966), 65-82. (G. D. Chakerian) 34 #3439

Axially symmetric polygons inscribed in and circumscribed about convex sets. *Elem. Math.* 22 (1967), 121-133. (H. R. Müller) 37 #2093

Valcovici, L. See Vâlcovici, Victor.

Vâlcovici, Victor

Über die Grundbegriffe der Mechanik. *Rev. Math. Pures Appl. (Bucarest)* 6 (1961), 5-24. 31 #1793

Sur le principe du travail virtuel. *Celebrazioni Archimedee del Sec. II (Siracusa,* 1961*), Vol. III, pp.* 151-160. *Edizioni "Oderisi", Gubbio,* 1962. (O. Gürel) 31 #2859

A new form of the principle of virtual displacement. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Fil. Cluj Stud. Cerc. Mat.* 13 (1962), 193-206. (Editors) 31 #2860

Sur le mouvement de rotation d'un fluide visqueux. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 3-17. (K. Stewartson) 32 #3387

* Opere. Vol. I: Mecanică generală şi astronomie. (Romanian) [Works. Vol. I: General mechanics and astronomy] *Editura Academiei Republicii Socialiste România, Bucharest,* 1969. 488 *pp.* *(1 plate)* (Editors) 41 #1498

* Opere. Vol. II: Mecanica fluidelor şi teoria elasticităţii. (Romanian) [Works. Vol. II: The mechanics of fluids and the theory of elasticity] *Editura Academiei Republicii Socialiste Romania, Bucharest,* 1971. 483 *pp.* (Editors) 44 #24

Val'd, A. See Wald, Abraham.

Valderrama, Jerko

(with Dedecker, Paul) Graphes et cographes sur une catégorie abstraite. Application à l'homotopie. *C. R. Acad. Sci. Paris Ser. A - B* 262 (1966), A377-A380. (R. Brown) 32 #8340

(with Douai, Jean-Claude) 2-catégorie d'opérateurs sur une catégorie. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A584-A586. (Authors' summary) 42 #6080

(with Douai, Jean-Claude) Cohomologie non abélienne et 2-catégorie d'opérateurs sur une catégorie. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A632-A634. (A. Babakhanian) 43 #317

Valdivia G., Oscar

Hopf algebras and product formulas. (Spanish) *Bol. Soc. Mat. Mexicana* (2) 12 (1967), 1-31. (S. Gitler) 38 #5208

Valdivia Ureña, Manuel

Sequences of continuous functions, absolutely continuous and summable for various types of convergence. (Spanish) *Rev. Acad. Ci. Madrid* 57 (1963), 677-726. (V. F. Cowling) 33 #6201

Some convergence criteria in the theory of integration. (Spanish) *Rev. Acad. Ci. Madrid* 59 (1965), 173-210. (S. Foglio) 37 #5338

The general closed graph theorem in locally convex topological vector spaces. (Spanish. English summary) *Rev. Acad. Ci. Madrid* 62 (1968), 545-551. (L. Janos) 39 #1940

The general open mapping theorem in locally convex topological vector spaces. (Spanish. English summary) *Rev. Acad. Ci. Madrid* 62 (1968), 553-562. (L. Janos) 39 #3281

Quasi-approximative convergence. (Spanish) *In Honor of Prof. Dr. Iñiguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp.* 205-210. *Consejo Sup. Investigacion. Ci. Fac. Ci. Zaragoza, Zaragpza,* 1969. (H. Tong) 41 #7616

Strongly almost open linear mappings. (Spanish) *Rev. Acad. Ci. Madrid* 63 (1969), 33-37. (L. Janos) 40 #3263

On bounded sets in quotient topological vector spaces. (Spanish) *Rev. Acad. Ci. Madrid* 63 (1969), 39-44. (L. Janos) 40 #1753

On compact sets in $\mathcal{DF}$ spaces. (Spanish. English summary) *Collect. Math.* 21 (1970), 99-103. (G. Marinescu) 44 #2020

On $\mathcal{DF}$ spaces. *Math. Ann.* 191 (1971), 38-43. (W. A. J. Luxemburg) 43 #6694

Valēēv, K. G.

Linear differential equations with sinusoidal coefficients and stationary retardations of the argument. (Russian. English summary) *Qualitative methods in the theory of non-linear vibrations (Proc. Internat. Sympos. Non-linear Vibrations, Vol. II,* 1961*), pp.* 100-119. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. (F. M. Arscott) 29 #1405

On the danger of combination resonances. *Prikl. Mat. Meh.* 27 (1963), 1134-1142 *(Russian); translated as J. Appl. Math. Mech.* 27 (1964), 1745-1759. (J. K. Hale) 29 #335

Linear differential equations with a time lag depending linearly on the argument. (Russian) *Sibirsk, Mat. Ž.* 5 (1964), 290-309. (R. D. Driver) 29 #6139

(with Rakitskiĭ, Ju. V.) On the determination by difference methods of regions of instability of the solutions of a system of linear differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.,* 110-122. (Z. Opial) 30 #2194

Numerical solution of a linear differential equation with exponential coefficients and linear time lag. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.,* 129-134. (R. F. Datko) 32 #6684

On the problem of the motion of an exially symmterical body under the action of a constant moment. *Prikl. Mat. Meh.* 29 (1965), 162-165 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 175-178 (1966). (T. R. Kane) 33 #2009

Application of the Laplace transform to the solution and study of stability of linear differential equations with variable coefficients and retardation of the argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭs Otklon. Argumentom Univ. Druzby Narodov Patrisa Lumumby* 4 (1967), 51-78. (A. Halanay) 35 #4543 (with Rakitskiĭ, Ju. V.) A certain boundary value problem for the nonlinear heat equation. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1967, *no.* 5, 52-61. (J. Kačur) 44 #4401; erratum, 44, p. 1633

The solution of certain functional equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 5 *(Russian), pp.* 85-89. *(errata insert) Izdat. "Ilim", Frunze,* 1968. (J. Carkovs) 40 #7602

Linear differential equations with exponential-polynomial coefficients and retarded argument. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 5 *(Russian), pp.* 44-53. *(errata insert) Izdat. "Ilim", Frunze,* 1968. (K. Schmitt) 41 #2173

(with Tokarev, V. Ī.) Application of the asymptotic method to differential equations with retarded argument. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 505-507. (M. Bertolino) 37 #4371

On the theory of the method of point transformations. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 11 (1968), 985-996. (D. Bobrowski) 40 #3094

(with Kulesko, N. A.) The finite-parameter family of solutions of systems of differential equations with deviating argument. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 739-749. (D. Wexler) 39 #587

On the theory of noncommutative semigroups. (Russian) *Mathematical Physics, No.* 6 (1969) *(Russian), pp.* 54-60. *Naukova Dumka, Kiev,* 1969. (E. Ja. Gabovič) 42 #399

Linear difference equations with exponential coefficients. (Russian) *Differencial'nye Uravnenija* 5 (1969), 499-506. (M. Kuczma) 40 #1726

(with Ganiev, R. F.) A study of nonlinear systems oscillations. *Prikl. Mat. Meh.* 33 (1969), 413-430 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 401-418. (D. V. V. Wend) 41 #3896

Investigation of oscillations in a quasilinear autonomous system in the resonance case. (Russian) *Prikladna. Meh.* 5 (1969), *vyp.* 4, 25-31. (I. Muntean) 44 #544; erratum, 44, p. 1632

Linear differential equations with quasiperiodic coefficients and constant retardation of the argument. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1969, *no.* 11, *Ser. Mat. Meh.*, 16-24. (R. D. Driver) 43 #2329

(with Razīn, G. O.) An investigation of linear differential equations with random exponential coefficients. (Ukrainian. English and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1970, *no.* 12, 30-37. (E. Gerlach) 44 #564; erratum, 44, p. 1632

(with Važgovskaja, M. Ja.) An investigation of the stability of the solutions of a system of second order linear differential equations with periodic coefficients. (Russian) *Differencial'nye Uravnenija* 7 (1971), 955-960, 1137. (C. S. Coleman) 44 #7072

Analysis of fixed points of point mappings. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 14 (1971), 333-344. (R. Kodnár) 44 #4418; erratum, 44, p. 1633

(with Jakovenko, V. S.) The finite solutions of a system of linear differential equations with periodic coefficients. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 14 (1971), 399-402. (M. Urabe) 44 #7055

(with Važgovskaja, M. Ja.) An investigation of stability in resonance cases. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 63-70. (M. Ráb) 43 #7730

An application of the asymptotic method in the critical case of a double zero root. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 364-367. (H. I. Freedman) 44 #560; erratum, 44, p. 1632

Valeev, V. G.

(with Sosulin, Ju. G.) Multichannel reception of signals in noise when the observed data have a non-Gaussian distribution. I. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 2, 190-201 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 2, 369-379 (1971). (K. S. Miller) 44 #5165

(with Sosulin, Ju. G.) Many-channel reception of signals in noise with non-Gaussian distributions of the observed data. II. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 4, 133-144 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 4, 737-748 (1971). (K. S. Miller) 44 #5166

Valeeva, R. T.

On a certain inverse problem of the qualitative theory of differential equations. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 59-61. (P. Seibert) 35 #465

The construction of a differential equation with prescribed limiting cycles and singular points. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 83-85. (R. Reissig) 35 #5701

Valente, Marina

(See Ramsey, Frank P., 33 #5446)

Valenti, Enrico

Sui punti principali delle curve piane affini. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 8-11. (D. Gallarati) 36 #161

Alcune applicazioni degli elementi differenziali misti del primo ordine in S_3. (German summary) *Atti Accad. Ligure Sci. Lett.* 26 (1969), 195-203 (1970). (P. Vincensini) 42 #983

Valenti, Santi

La soluzione generale di un sistema di equazioni alle differenze finite e di un sistema agli accrescimenti lineari totali. *Atti Accad. Sci. Lett. Arti Palermo Parte I* (4) 28 (1967/68), *fasc.* 2, 417-429 (1969). (I. Fenyő) 41 #4040

On the Poincaré-irreducibility of some spaces of solutions of a partial differential equation. *Acta Phys. Polon.* 36 (1969), 907-913. (Author's summary) 41 #4960

Valentin, Richard A.

The use of the hypercircle inequality in deriving a class of numerical approximation rules for analytic functions. *Math. Comp.* 22 (1968), 110-117. (W. J. Davis) 36 #6840

Valentine, Charles W.

A method for partial fraction decomposition. *SIAM Rev.* 9 (1967), 232-233. (H. Rutishauser) 35 #3854

Valentine, Frederick A.

* Convex sets. McGraw-Hill Series in Higher Mathematics. *McGraw-Hill Book Co., New York-Toronto-London,* 1964. ix + 238 *pp.* (P. C. Hammer) 30 #503

Local convexity and starshaped sets. *Israel J. Math.* 3 (1965), 39-42. (W. R. Alford) 32# 1611

Local convexity and L_n sets. *Proc. Amer. Math. Soc.* 16 (1965), 1305-1310. (K. Strubecker) 32 #2976

(with Robkin, Eugene) Parallel lines associated with two sets. *Canad. J. Math.* 18 (1966), 811-816. (H. R. Müller) 33 #6474

(with Robkin, E. E.) Families of parallels associated with sets. *Pacific J. Math.* 16 (1966), 147-157. (D. W. Walkup) 32 #4600

Two theorems of Krasnosel'skiĭ type. *Proc. Amer. Math. Soc.* 18 (1967), 310-314. (W. J. Firey) 35 #871

* Konvexe Mengen. Übersetzung aus dem Englischen durch E. Heil. B. I.-Hochschultaschenbücher, Band 402/402a. *Bibliographisches Institut, Mannheim,* 1968. 247 *pp.* (Editors) 37 #2084

Visible shorelines. *Amer. Math. Monthly* 77 (1970), 146-152. (H. E. Debrunner) 41 #2530

(with Buchman, Edwin) A characterization of the parallelepiped in E^n. *Pacific J. Math.* 35 (1970), 53-57. (Z. Nádeník) 42 #5157

Valentine, Joseph E.

An analogue of Ptolemy's theorem in spherical geometry. *Amer. Math. Monthly* 77 (1970), 47-51. (E. W. Ellers) 40 #7932

An analogue of Ptolemy's theorem and its converse in hyperbolic geometry. *Pacific J. Math.* 34 (1970), 817-825. (L. Gyarmathi) 42 #5151

Hyperbolic spaces and quadratic forms. *Proc. Amer. Math. Soc.* 24 (1970), 607-610. (L. M. Blumenthal) 40 #7933

(with Wayment, S. G.) On mean value theorems for a metric derivative. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 153-156. (B. Rodriguez-Salinas) 41 #8602

(with Wayment, S. G.) Wilson angles in linear normed spaces. *Pacific J. Math.* 36 (1971), 239-243. (H. A. Gindler) 43 #3775

(with Wayment, Stanley G.) Metric transforms and the hyperbolic four-point property. *Proc. Amer. Math. Soc.* 31 (1972), 232-234. (L. M. Kelly) 44 #7438

Valentine, Marian

(with Guderley, Karl G.) On error bounds for the solution of systems of ordinary differential equations. *Blanch Anniversary Volume, pp.* 45-89. *Aerospace Research Lab., U. S. Air Force, Washington, D. C.,* 1967. (F. Stenger) 35 #3889

Valeškevič, I. N. See Jaškina, I. N.

Valette, Guy

Quelques propriétés globales des rubans de courbure. (German summary) *Bull. Soc. Math. Belg.* 15 (1963), 413-427. (M. Kurita) 29 #2732

Structures d'ovale topologique sur le cercle. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 586-597. (H. Salzmann) 32 #1598

Cubiques topologiques à 1 dimension. *Arch. Math.* 16 (1965), 265-273. (Otto Haupt) 32 #2962

Quasi-groupes *n*-aires topologiques et multi-involutions. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 114-122. (N. J. Rothman) 36 #297

Une caractérisation interne des ensembles convexes. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 986-999. (G. C. Shephard) 37 #3448

Les polyèdres inscriptibles à faces régulières. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 916-928. (J. J. Burckhardt) 42 #956

A propos des cages circonscrites à une sphère. *Bull. Soc. Math. Belg.* 21 (1969), 124-125. (G. C. Shephard) 41 #7532

(with Doyen, Jean) On the number of non isomorphic Steiner triple systems. *Math. Z.* 120 (1971), 178-192. (E. F. Assmus, Jr. 43 #4695 alette, Jacques

Anneaux de groupes semi-parfaits. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A339-A341. (D. B. Coleman) 44 #4115

. Alexits, Georg. See Alexits, György.

aleyev, V. G. See Valeev, V. G.

al'fiš, A. A. See Val'fiš, Anna.

al'fiš, A. Z.

* Weylsche Exponentialsummen in der neueren Zahlentheorie. Mathematische Forschungsberichte, XV. *VES Deutscher Verlag der Wissenschaften, Berlin,* 1963. 231 *pp.* (B. J. Birch) 36 #3737

(See also Obituary, 31 #2120; Biographical note: Arnold Walfisz (1892-1962), 30 #1025a; Lomadze, G. A.; Čogošvili, G. S., 29 #4663; Lomadze, G. A., 30 #1025b; and Bibliography of scientific works of Arnold Walfisz, 30 #1025c)

(with Val'fiš, Anna) Über Gitterpunkte in mehrdimensionalen Kugeln. IV. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 307-333. *Plenum, New York,* 1969. (C. G. Lekkerkerker) 44 #3968

al'fiš, Anna

Über die summatorischen Funktionen einiger Dirichletscher Reihen. II *Acta Arith.* 10 (1964/65), 71-118. (H.-E. Richert) 29 #1187

The Fourier-Poisson formula for a certain class of Dirichlet series. (Russian. Georgian summary) *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze* 29 (1963), 1-13 (1964). (A. Dvoretzky) 31 #5850

(with Val'fiš, A. Z.) Über Gitterpunkte in mehrdimensionalen Kugeln. IV. *Number Theory and Analysis (Papers in Honor of Edmund Landau), pp.* 307-333. *Plenum, New York,* 1969. (C. G. Lekkerkerker) 44 #3968

äliaho, Hannu

A synthetic approach to stepwise regression analysis. *Soc. Sci. Fenn. Comment. Phys.-Math.* 34 (1969), *no.* 12, 91-132. (Author's summary) 39 #6458

New algorithms for quadratic programming. *Soc. Sci. Fenn. Comment. Phys.-Math.* 36 (1970), 111-136. (R. W. Cottle) 41 #8038

The non-diagonal pivotal operation and its application to linear programming. *Soc. Sci. Fenn. Comment. Phys.-Math.* 40 (1970), 163-174. (R. W. Cottle) 43 #7206

Non-optimal weighting in stepwise regression analysis. *Soc. Sci. Fenn. Comment. Phys.-Math.* 41 (1971), 63-72. (A. L. Nagar) 44 #2294

alic'kiĭ, Ju. M.

(with Berezovskiĭ, N. I.) Abel's first theorem for some functional series. (Russian) *Problems Math. Phys. and Theory of Functions (Russian), pp.* 12-17. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. (M. Tomić) 32 #2772

On the transformation operator for integro-differential operators of Volterra type. (Russian) *Mathematical Physics* (1965) *(Russian), pp.* 23-36. *Naukova Dumka, Kiev,* 1965. (E. Riekstiņš) 33 #1687

The applicability of the method of finite differences to the investigation of the spectrum of an ordinary differential operator. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 108-121. (V. Šeda) 39 #3716

The convergence of difference approximations of the eigenvalues and eigenfunctions of a two-dimensional elliptic operator. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 263-265. (V. Thomée) 43 #7090

aliev, K. H.

On a certain non-linear singular integral equation. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), 111-113. (M. Mişicu) 32 #8098

aliev, H. V.

The invariance group of a quantum anisotropic oscillator. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 49-55. (C. A. Hurst) 44 #6241

aliev, M. K.

A theorem of G. Higman. (Russian) *Algebra i Logika* 7 (1968), *no.* 3, 9-22. (M. Greendlinger) 41 #1849

aliev, T. A.

* Помехоустойчивость систем передачи данных с дискритным накоплением. (Russian) [Noise stability of systems of information transmission with discrete accumulation] *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 111 *pp.* (S. Kotz) 41 #5098

aliev, V. A.

The spectral dimension of perfectly *n*-dimensional bicompacta. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 1, 12-15. (S. Mardešić) 37 #2196

Inverse spectra and dimensionality. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 6, 40-44. (Y. Kodama) 41 #1023

Valikov, K. V.

Characteristic indices of solutions of differential equations in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1010-1013. (A. Stokes) 29 #6349

Some criteria for stability of motion in Hilbert space. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 179-184. (A. Stokes) 29 #6142

The asymptotic behavior of solutions of a nonlinear parabolic equation. *Dokl. Akad. Nauk SSSR* 160 (1965), 743-745 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 167-169. (J. Elliott) 35 #592

Nonlinear differential equations in a Banach space, close to linear ones. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1692-1706. (L. K. Jackson) 36 #5484

Vališková, Olga

Metric properties of certain *R*-systems of curves on ruled surfaces. (Czech. Russian and German summaries) *Knižnice Odborn. Věd. Spisů Vysoké. Učení Tech. v Brně* 5 (1966), 5-11. (Author's summary) 34 #6659

Valiullin, A. N.

(with Janenko, N. N.) Economic difference schemes of a higher order of accuracy for a polyharmonic equation. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1967, *no.* 13, 88-96. (M. Zlámal) 44 #1244

A method of choosing the parameters in higher accuracy schemes for the polyharmonic equation. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1969, *no.* 3, 82-86. (M. Zlámal) 41 #2947

A scheme of sixth order accuracy for the Helmholtz equation. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1970, *no.* 8, 75-80. (D. P. Squier) 44 #6171

Val'ka, Jan

Discontinuous solutions of a higher-dimensional quasilinear equation (numerical experiments). (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 186-190. (E. L. Albasiny) 39 #1126

Vallander, S. S.

(with Ibragimov, I. A.; Lindtrop, N. G.) The limit distributions for the moduli of sequential differences of independent variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 693-707. (R. G. Laha) 41 #9334

Vallander, S. V.

(with Egorova, I. A.; Rydalevskaja, M. A.) The statistical Boltzmann distribution as a solution of the kinetic equations for gas mixtures. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 2, 57-70. (R. Balescu) 29 #6879

(with Egorova, I. A.; Rydalevskaja, M. A.) An extension of the Chapman-Enskog method to reactive gas mixtures with internal degrees of freedom. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 2, 155-161. (R. Balescu) 29 #6880

(with Egorova, I. A.; Rydalevskaja, M. A.) Equilibrium statistical distributions, different from the Boltzmann distribution, for gases. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 4, 110-113. (R. Balescu) 30 #2872

(with Egorova, I. A.; Rydalevskaja, M. A.) The Boltzmann distribution as solution of the kinetic equations for gaseous mixtures. (Russian) *Aerodynamics of Rarefied Gases (Russian), Coll. II, pp.* 14-30. *Izdat. Leningrad. Univ., Leningrad,* 1965. 33 #1113

Probabilistic description of a random process of movement of a rarified gas. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 297-299. (H. S. Green) 31 #4530

(with Linnik, Ju. V.) Some remarks on the equations connected with the method of sources and sinks. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 19, 24-29. (S. Raman) 39 #3752

Valle, A.

Un problème de contrôle optimum dans certaines équations différentielles d'évolution. *Ann. Scuola Form. Sup. Pisa* (3) 20 (1966), 25-30. (Š. Schwabik) 33 #7165

Vallée, Robert

Expression asymptotique, pour les grandes valeurs du temps, de l'information associée à la fonction d'onde dans le cas d'un corpuscule libre. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), B529-B532. (Author's summary) 38 #1888

de la Vallée Poussin, Ch. J.

* (with Bernšteĭn, S. N.) L'approximation. *Chelsea Publishing Co., Bronx, N. Y.,* 1970. xiii + 204 *pp.*; vii + 150 *pp.* (Editors) 40 #2511

de la Vallee Poussin, F. See de La Vallee Poussin, F.

Vallés, Francisco de A. Sales. See Sales Vallés, Francisco de Asís.

Valle Sánchez, Antonio

On the Jordan canonical form corresponding to a square matrix and the non-singular matrices relating them. (Spanish) *Gac. Mat. (Madrid)* (1) 16 (1964), 20-34. (R. F. Rinehart) 29 #1218

Elliptic boundary value problems. (Spanish). *Gac. Mat. (Madrid)* (1) 17 (1965), 121-133. (A. Dou) 32 #6035

Spaces and methods of linear interpolation. Application to the spaces $W^{m,p}(\Omega)$. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 25 (1965), 186-201. (J. F. Smith) 33 #1766

* Problemas de control óptimo en ecuaciones diferenciales abstractas de evolución. (Spanish) [Optimal control problems in abstract differential equations of evolution] Doctoral dissertation, University of Madrid. Serie A, No. 16. Seccion de Matemáticas. *Universidad de Madrid, Madrid,* 1966. iv + 46 pp. (R. Carroll) 42 #2147

Boundary value problems in evolution equations. (Spanish) *Gac. Mat. (Madrid)* (1) 18 (1966), 18-27. (G. L. O. Giacaglia) 42 #660

Albebraic study of certain problems concerning linear differential systems. (Spanish) *Rev. Acad. Ci. Madrid* 60 (1966), 11-25. (A. Dou) 34 #408

Abstract optimization problems. (Spanish) *Sixth Annual Reunion of Spanish Mathematicians (Seville, 1965)* (Spanish), pp. 23-35. *Univ. Sevilla, Seville,* 1967. (From the author's introduction) 42 #6684

Vallinkoski, Matti K.

Zur Deutung des d'Alembertschen Prinzips in der Massenpunktmechanik. *Ann. Acad. Sci. Fenn. Ser. A VI No.* 157 (1964), 11 pp. (K. Magnus) 30 #1637

Valqui, Holger

Derivation of the transformation equations in the special theory of relativity. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 1 (1962/63), 41-48. 29 #4567

The rôle of matrices in the presentation of quantum mechanics. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 2 (1964), 16-39. (H. Tong) 30 #1746

The pseudoeuclidean plane. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 3 (1965), 21-42. (H. R. Müller) 33 #3178

A theorem of Fourier series. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 4 (1966), 147-149. (Editors) 38 #476

The Lagrange multipliers. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 4 (1966), 95-99; *errata, ibid.* 4 (1966), 151-152. 38 #282

Note on the general form of the Lorentz transformation. (Spanish) *Univ. Nac. Ingen. Inst. Mat. Puras Apl. Notas Mat.* 5 (1967), 59-67. 38 #2152

Val'skiĭ, R. È.

Some remarks on bounded functions representable by an integral of Cauchy-Stieltjes type. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 252-260. (D. Mitrović) 33 #4289

(with Havin, V. P.) Removability of singularities of analytic functions and transfer of masses. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 55-60. (L. C. Young) 34 #3293

On the Gleason parts for algebras of analytic functions and measures orthogonal to these algebras. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 12-14. (S. J. Sidney) 35 #3448

Parts of algebras of analytic functions, and measures orthogonal to these algebras. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1222-1235. (S. J. Sidney) 36 #1986

Measures that are orthogonal to analytic functions in C^n. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 502-505. (D. Sarason) 44 #3116

(with Agranovskiĭ, M. L.) Maximality of invariant algebras of functions. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 3-12. (C. C. White) 44 #3128

Val'ter, V. G.

(with Loginov, B. V.; Gugnina, V. I.) On the question of the existence of invariant subspaces of a polynomial operator. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 5, 16-22. (N. K. Nikol'skiĭ) 43 #6758

Valucè, I. I.

Ideals of certain semigroups of transformations. (Russian) *Studies in General Algebra (Sem.) (Russian),* pp. 67-80. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. (K. Drbohlav) 34 #7695

Ideals of the endomorphism algebra of a free universal algebra. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 2 (8), 104-112. (A. Astromoff) 40 #7184

Valuev, B. N.

Reduction formulas and representations of amplitudes for n-vertex graphs. *Jadernaja Fiz.* 1 (1965), 715-720 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 510-513. (F. R. Halpern) 33 #7010

Vamanu, Elena

Myller varieties of two and three dimensions in P_3. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 385-397. (G. Vrănceanu) 32 #2994

On almost product structures and associated completely reducible linear connections. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 393-400. (H. W. Guggenheimer) 38 #629

Quasiconnections in spaces with almost product structure. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 401-408. (O. Em. Gheorghiu) 38 #630

Quasi-connections associated to a linear connection on a space with almost product structure. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 133-142. (G. Tallini) 40 #7976

On the spaces with almost-product structure which admit a simply transitive group. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 423-430. (G. Tallini) 41 #6104

On the Riemannian spaces equipped with a certain almost-product structure. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 15 (1969), 431-440. (G. Tallini) 41 #4435

Quasi-connections in spaces endowed with an r-π structure. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 117-125. (H. W. Guggenheimer) 42 #6744

Infinitesimal automorphisms of an r-π-structure. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 377-381. (L. A. Santaló) 43 #5443

Quasi-connections on differentiable manifolds. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 383-388. (P. Stavre) 44 #2158

Vambera, Karel

Matrix analysis of linear circuits. *Acta Tech. ČSAV* 12 (1967), 467-494. (Author's summary) 39 #6681

Vámos, P.

On ring classes defined by modules. *Publ. Math. Debrecen* 14 (1967), 1-8. (S. Comer) 37 #50

The dual of the notion of "finitely generated". *J. London Math. Soc.* 43 (1968), 643-646. (H. H. Storrer) 40 #1425

Additive functions and duality over Noetherian rings. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 43-55. (W. H. Caldwell) 36 #6482

A note on the quotients of indecomposable injective modules. *Canad. Math. Bull.* 12 (1969), 661-665. (W. H. Caldwell) 41 #190

le Van, Marijo O. See Le Van, Marijo O.

Van, Nguyen Thanh. See Nguyen Thanh Van.

Van, Ž. H. See Wang, J. H.

Vanagas, V. V.

* (with Jucys, A.; Levinsonas, J.) Mathematical apparatus of the theory of angular momentum. Translated from the Russian by A. Sen and R. N. Sen. *Israel Program for Scientific Translations, Jerusalem,* 1962. vi + 158 pp. (1 *fold-out*). (R. F. Stora) 33 #2117

(with Kalinauskas, R.) General expressions for the Wigner-Majorana energy and relations for the matrix elements of SU_3-invariant interactions in the case of ground states of nuclei. (Russian. Lithuanian and English summaries) *Litovsk. Fiz. Sb.* 9 (1969), 655-664. (M. E. Mayer) 44 #2429

(with Kalinauskas, R.) Certain types of Clebsch-Gordan coefficients arising in calculations in the unitary symmetry model scheme. (Russian. Lithuanian and English summaries) *Litovsk. Fiz. Sb.* 9 (1969), 685-693. (M. E. Mayer) 44 #5018

(with Kalinauskas, R. K.) Dependence of the potential energy of the nucleus on the quantum numbers of the unitary-symmetry-scheme model. *Jadernaja Fiz.* 10 (1969), 939-949 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 541-546. (M. E. Mayer) 43 #7174

Vanaja, N.

(with Rangaswamy, K. M.) A note on modules over regular rings. *Bull. Austral. Math. Soc.* 4 (1971), 57-62. (S. S. Page) 43 #267

Van Albada, Pieter Jacob. See van Albada, Pieter Jacob.

Van-an'. See Wang-an.

Van Arman, D. J.

(with Studden, W. J.) Admissible designs for polynomial spline regression. *Ann. Math. Statist.* 40 (1969), 1557-1569. (M. Atiqullah) 40 #2195

Vanblaricum, G. F.

(with Mittra, R.; Lee, S. W.) A modified residue calculus technique. *Internat. J. Engrg. Sci.* 6 (1968), 395-408. (A. M. Sessler) 38 #4042

Van Bouchout, V. See van Bouchout, V.

Van Buggenhaut, J. See van Buggenhaut, Jean.

Van Buskirk, James

Braid groups of compact 2-manifolds with elements of finite order. *Trans. Amer. Math. Soc.* 122 (1966), 81-97. (L. Neuwirth) 32 #6440

(with Gillette, Richard) The word problem and consequences for the braid groups and mapping class groups of the 2-sphere. *Trans. Amer. Math. Soc.* 131 (1968), 277-296. (J. A. H. Shepperd) 38 #221

(with Gillette, Richard) Monotone *n*-frames are tame. *Proc. Amer. Math. Soc.* 20 (1969), 381-382. (J. Martin) 38 #3845

Van Casteren, J. A. W. See van Casteren, J. A. W.

Vancko, Robert M.

The spectrum of some classes of free universal algebras. *Algebra Universalis* 1 (1971), *no.* 1, 46-53. (V. Căzănescu) 44 #5268

VanCleave, A. R., Jr.

Concerning expansive point sets and properties related to normality. *Colloq. Math.* 20 (1969), 77-81. (C. E. Aull) 39 #2118

Van Cleef, F. L.

(with Alishouse, J. C.; Crone, L. J.; Fleming, H. E.; Wark, D. Q.) A discussion of empirical orthogonal functions and their application to vertical temperature profiles. (Russian summary) *Tellus* 19 (1967), 477-482. (John Todd) 39 #6543

Vančura, A.

(with Domokos, G.; Surányi, P.) Fermi interactions at high energies. *Nuclear Phys.* 60 (1964), 1-16. (F. Calogero) 31 #4395

Vančura, Zdeněk

Sphere congruences and their focal surfaces. Associated line congruences and their focal surfaces. (Czech. German summary) *Rozpravy Československé Akad. Věd Řada Mat. Přírod. Věd* 78 (1968), *no.* 3, 99 *pp.* (K. Svoboda) 44 #3226

Van Cutsem, Bernard

Espérance conditionnelle d'une multiapplication à valeurs convexes compactes. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A211-A214. (M. P. Olson) 40 #6614

Martingales de multiapplications à valeurs convexes compactes. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A429-A432. (M. P. Olson) 41 #1083

Van Daele, A. See van Daele, A.

Vandakurov, Ju. V.

Effect of finite conductivity on equilibrium in a weakly twisted pinch. II *Ž. Tehn. Fiz.* 32 (1962), 948-957 *(Russian); translated as Soviet Physics Tech. Phys.* 7 (1963), 690-695. (Author's summary) 31 #1009

On the theory of stability of a plasma in a strong longitudinal magnetic field, variable along the axis of symmetry. *Prikl. Mat. Meh.* 28 (1964), 68-78 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 77-89. (F. C. Auluck) 30 #2880

Van Dalen, Dirk. See van Dalen, Dirk.

Van Dam, H. See van Dam, H.

Van Dan'-čži. See Wang Tán-chih.

Vandeghen, A.

Some remarks on the isogonal and cevian transforms. Alignments of remarkable points of a triangle. *Amer. Math. Monthly* 72 (1965), 1091-1094. (E. Morgantini) 32 #8230

VandeLinde, V. David

(with Lavi, Abrahim) Optimal observation policies in linear stochastic systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 904-917. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2413

Van de Lindt, Willem Jacobus. See van de Lindt, Willem Jacobus.

Van de Lune, J. See van de Lune, J.

Vanden Eynden, C. L.

(with Hinrichs, Lowell A.; Niven, Ivan) Fields defined by polynomials. *Pacific J. Math.* 14 (1964), 537-545. (M. J. Wonenburger) 29 #94

(with Eggan, L. C.) "Decimal" expansions to nonintegral bases. *Amer. Math. Monthly* 73 (1966), 576-582. (H. Kober) 33 #5549

(with Crittenden, Richard B.) A proof of a conjecture of Erdős. *Bull. Amer. Math. Soc.* 75 (1969), 1326-1329. (H. London) 40 #2596

* Number theory. An introduction to proof. *International Textbook Co. [An Intext Publisher], Scranton, Pa.,* 1970. ix + 158 *pp.* (K. Thanigasalam) 41 #5278

(with Crittenden, R. B.) Any *n* arithmetic progressions covering the first 2^n integers cover all integers. *Proc. Amer. Math Soc.* 24 (1970), 475-481. (H. London) 41 #3365

Van de Panne, C. See van de Panne, C.

Van der Blij, F. See van der Blij, Frederik.

Van der Borght, R. See van der Borght, R.

Van der Corput, J. G. See van der Corput, Johannes G.

Van der Genugten, B. B. See van der Genugten, B. .

Vandergraft, James S.

Newton's method for convex operators in partially ordered spaces. *SIAM J. Numer. Anal.* 4 (1967), 406-432. (R. F. Albrecht) 36 #4846

Spectral properties of matrices which have invariant cones. *SIAM J. Appl. Math.* 16 (1968), 1208-1222. (I. K. Marek) 39 #5599

Generalized Rayleigh methods with applications to finding eigenvalues of large matrices. *Linear Algebra and Appl.* 4 (1971), 353-368. (G. W. Stewart) 44 #4890

Van der Houwen, P. J. See van der Houwen, P. J.

Van de Riet, R. P. See van de Riet, R. P.

Van der Laan, P. See van der Laan, P.

Van der Linden, J. See van der Linden, J.

Van der Meiden, W. See van der Meiden, W.

Van der Moore, W. A. See van der Moore, W. A.

Van der Oord, Eric

Une condition d'unicité des solutions de l'équation de convolution multiplicative. *Bull. Sci. Math.* (2) 95 (1971), 151-159. (Y. Domar) 44 #5725

Van der Poorten, A. J.

A note on the independence of the axioms for a vector space. *J. Austral. Math. Soc.* 7 (1967), 425-428. (N. H. Kuiper) 37 #6293

Transcendental entire functions mapping every algebraic number field into itself. *J. Austral. Math. Soc.* 8 (1968), 192-193. (N. Toda) 37 #2699

(with Cox, C. D.) On a sequence of prime numbers. *J. Austral. Math. Soc.* 8 (1968), 571-574. (B. M. Stewart) 37 #3998

Generalisations of Turán's main theorems on lower bounds for sums of powers. *Bull. Austral. Math. Soc.* 2 (1970), 15-37. (D. J. Lewis) 42 #217

A generalisation of Turán's main theorems to binomials and logarithms. *Bull. Austral. Math. Soc.* 2 (1970), 183-195. (K. Thanigasalam) 43 #164

On the arithmetic nature of definite integrals of rational functions. *Proc. Amer. Math. Soc.* 29 (1971), 451-456. (D. G. Cantor) 43 #1928

Van der Put, M. See van der Put, Marius.

Vanderslice, B. R.

(with Hall, D. W.; Siry, J. W.) The chromatic polynomial of the truncated icosahedron. *Proc. Amer. Math. Soc.* 16 (1965), 620-628. (G. Sabidussi) 31 #3361

Van der Slot, J. See van der Slot, J.

Van der Vaart, H. Robert See van der Vaart, H. Robert

Van der Velde, E. A. See van der Velde, E. A.

Vander Velde, W. E.

(with Potter, J. E.) On the existence of stabilizing compensation. *IEEE Trans. Automatic Control* AC-14 (1969), 97-98. (Authors' summary) 40 #3939

Van der Waerden, Bartel Leendert See van der Waerden, Bartel Leendert.

Van der Walt, A. P. J. See van der Walt, A. P. J.

Van der Walt, T. See van der Walt, T.

Van de Vel, H.

(with van de Vooren, A. I.) Unsteady profile theory in incompressible flow. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 709-735. (J. W. Miles) 32 #3379

On the series expansion method for computing incomplete elliptic integrals of the first and second kinds. *Math. Comp.* 23 (1969), 61-69. (Author's summary) 39 #1089

Van de Ven, A. See van de Ven, A. J. H. M.

Van de Ven, A. A. F. See van de Ven, A. A. F.

Van de Vooren, A. I. See van de Vooren, Adriaan Isak.

Van de Water, Arthur

A property of torsion-free modules over left Ore domains. *Proc. Amer. Math. Soc.* 25 (1970), 199-201. (S. S. Page) 41 #1809

Vandewiele, Georges

(with de Witte, Paul) A test of goodness of fit. *Statistica Neerlandica* 20 (1966), 87-105. (C. C. Craig) 34 #6929

A test of goodness of fit for discrete distributions. *Statistica Neerlandica* 20 (1966), 107-118. (C. C. Craig) 34 #6930

(with Noé, Marc) An inequality concerning tests of fit of the Kolmogorov-Smirnov type. *Ann. Math. Statist.* 38 (1967), 1240-1244. (W. Hoeffding) 35 #7529

(with Noé, Marc) The calculation of distributions of Kolmogorov-Smirnov type statistics including a table of significance points for a particular case. *Ann. Math. Statist.* 39 (1968), 233-241. (M. M. Siddiqui) 39 #1039

A generalization of the Albert-Nelson counter with semi-Markov input. *SIAM J. Appl. Math.* 19 (1970), 672-678. (D. R. Brillinger) 42 #5361

Vandezande, Christiane

Une classification des plans octuples abéliens rationnels. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 1302-1312. (M. Rosati) 34 #4977

Sur un plan octuple d'invariants $p_g = p_a = 0$, $P = p^{(1)} = 3$. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 1313-1318. (M. Rosati) 34 #4978

Sur une classe de plans octuples irréguliers de genre linéaire $p^{(1)} = 1$. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 35-39. (Author's introduction) 38 #1089

Une propriété des surfaces cubiques, complexes, non singulières. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 561-567. (T. G. Room) 38 #4476

(with Hubaut, X.) Courbes d'une surface cubique. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 54 (1968), 1414-1423. (B. d'Orgeval) 39 #5570

Plans octuples abéliens du type 2.2.2. (Italian summary) *Rend. Mat.* (6) 1 (1968), 3-30. (C. B. Pereyra) 39 #3383

Van Dijk, G. See van Dijk, G.

Van Dingenen, A.

Sur deux groupes de permutations d'ordre 48. *Period. Mat.* (4) 44 (1966), 22-38. (H. Lüneburg) 34 #2676

Vandiver, H. S.

* (with Dickson, L. E.; Mitchell, H. H.; Wahlin, G. E.) Algebraic numbers. *Chelsea Publishing Co., New York,* 1967. ii + 211 *pp.* (Editors) 39 #2689

Van Dobben de Bruyn, C. S. See van Dobben de Bruyn, C. S.

Van Drooge, Dick See van Drooge, D. C.

Van Dulst, D. See van Dulst, D.

Van Dyke, John

Fitting $y = \beta x$ when the variance depends on x. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 67-72. (V. Babkin (RŽMat 1965 #2V179)) 33 #1930

Van Dyke, Milton D.

* Perturbation methods in fluid mechanics. Applied Mathematics and Mechanics, Vol. 8. *Academic Press, New York-London,* 1964. x + 229 *pp.* (W. Langlois) 31 #974

Higher approximations in boundary-layer theory. III. Parabola in uniform stream. *J. Fluid Mech.* 19 (1964), 145-159. (D. W. Dunn) 29 #850

Lifting-line theory as a singular-perturbation problem. *Prikl. Mat. Meh.* 28 (1964), 79-90 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 90-102. (M. Honda) 30 #3642

Van Eekelen, H. A. M. See van Eekelen, H. A. M.

Van Eijnsbergen, A. C. See van Eijnsbergen, A. C.

Vaněk, Jiří

Cartan's evolute of a ruled surface and its generalization. (Czech. Russian and English summaries) *Sb. Vysoké. Učení Tech. Brno* 1966, 101-108. (V. Havel) 35 #7234

Van Emde Boas, P. See van Emde Boas, P.

Van Emden, M. H. See van Emden, M. H.

Van Fo Fi, G. A.

(with Savin, G.M.; Buĭvol, V. M.) Application of the method of successive approximations in certain problems of the theory of shallow shells. (Ukrainian. Russian and English summaries) *Akad. Nauk Ukraïn. RSR Prikl. Meh.* 7 (1961), 487-495. (Authors' summary (RŽMeh 1963 #8V59)) 32 #4947

Representations of cylindrical functions for noncircular domains. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 914-916, 958. (B. A. Bondare
42 #4792

Van Fo Fy, G. A. See Van Fo Fi, G. A.

Van Fraassen, B. C. See van Fraassen, B. C.

Van Frankenhuysen, J. H. See van Frankenhuysen, J. H.

Van Galen, J. See van Galen, J.

Vangeldère, J.

Quatre théorèmes généraux relatifs aux doubles systèmes conjugués de première espèce d'une V_3 quelconque de S_5. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 299-308. (L. M. Kelly) 30 #523

Sur les systèmes conjugués et autoconjugués de seconde espèce d'une surface Φ de Segre non parabolique de S_5. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 736-742. (A. Fialkow) 31 #681

Recherches sur la gométrie projective différentielle des V_3 de S_5. *Mém. Soc. Roy. Sci. Liège Coll. in-8°* (5) 10 (1964), *no.* 1, 117 *pp.* (Vincensini) 29 #2730

Sur les surfaces Φ de Segre et les suites de Laplace dans l'espace projectif à cinq dimensions. *Bull. Soc. Roy. Sci. Liège* 34 (1965), 66-96. (P. O. Bell) 34 #8304

Sur certaines propriétés des surfaces de S_3 considérées dans l'espace régle. *Bull. Soc. Roy. Sci. Liège* 34 (1965), 699-725. (P. Vincensini) 36 #7049

Quelques propriétés des ensembles convexes algébriquement fermés. (English summary) *Bull. Soc. Roy. Sci. Liège* 37 (1968), 271-273. (V. Krishnamurthy) 39 #4630

Sur une famille d'ensembles particuliers d'un espace vectorie
(English summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 158-170. (K. Sundaresan) 41 #5931

Vanguri, Krishna-sastry, V. R.

(with Pearson, Allan E.) A synthesis procedure for parameter adaptive control systems. *IEEE Trans. Automatic Control* AC-16 (1971), 440-449. (W. D. Collins) 44 #6392

Van-Hai Nguyen. See Nguyen-Van-Hai.

Van Hamme, L. See van Hamme, L.

Vanhecke, Lieven

Rotations in line-congruences. (Dutch) *Simon Stevin* 40 (1966/67), 20-25. 35 #3573

Minimal surfaces and line congruences. (Dutch) *Med. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch.* 3
(1969), *no.* 8, 31 *pp.* (D. Laugwitz) 42 #6731

Parabolic congruences and inversions. (Dutch) *Simon Stevin* 43 (1969/70), 49-54. (O. Bottema) 42 #987

Ray congruences connected with a plane surface. (Flemish) *Med. Konink. Vlaamse Acad. Wetensch. Lett. Schone Kunst. België Kl. Wetensch.* 32 (1970), *no.* 6, 28 *pp.* (H. Rund) 43 #6833

Van Heerden, D. F. I. See van Heerden, D. F. I.

Van Heerden, Pieter J. See van Heerden, Pieter J.

Van Heijenoort, Jean See van Heijenoort, Jean.

Vanhelleputte, Cl.

On the quadrics which are tangent to the edges of a tetrahedron. (Dutch) *Simon Stevin* 37 (1963/64), 126-131. (H. W. Guggenheimer) 32 #2952

An involutory Cremona transformation. (Dutch) *Simon Stevin* 39 (1965/66), 61-66. (E. M. Bruins) 33 #1785

Van Hieu, Nguyen. See Nguyen Van Hieu.

Van Hoorn, Willy G. See van Hoorn, Willy G.

Van Hove, Léon. See van Hove, Léon.

Vaníček, Jiří

A theorem of Hahn-Banach type for locally convex topological spaces. *Comment. Math. Univ. Carolinae* 5 (1964), 145-157. (P. Porcelli) 32 #1546c

On projections in Banach space. *Comment. Math. Univ. Carolinae* 5 (1964), 159-171. (P. Porcelli) 32 #1546a

On the characterization of Banach spaces with the strong Kirtzbraun-Valentine property. *Comment. Math. Univ. Carolinae* 5 (1964), 173-181. (P. Porcelli) 32 #1546b

(with Katětov, M.) On the proximity generated by entire functions. *Comment. Math. Univ. Carolinae* 5 (1964), 267-278. (A. Lelek) 30 #4235

Vanin, K. A.

The isolation of points that are determined by a countable totally ordered set of chains of a rigid basis of an A-operation. (Russian) *Volgograd. Gos. Ped. Inst. Učen. Zap. Vyp.* 23 (1969), 137-142. (Đ. Kurepa) 44 #3880

The isolation of points that are determined by a countable totally ordered set of chains of a rigid basis of a GS_N-operation. (Russian) *Volgograd. Gos. Ped. Inst. Učen. Zap. Vyp.* 23 (1969), 143-146. (Đ. Kurepa) 44 #3881

an Iperen, H. See van Iperen, H.

anjašin, V. S.

(with Terent′ev, M. V.) The vacuum polarization of a charged vector field. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 565-573 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 375-380. (B. Kursunoglu) 32 #5139

an Juan′. See Wang Yuan.

an Kampen, N. G. See van Kampen, N. G.

an Kempen, H. P. M. See van Kempen, H. P. M.

an Kranendonk, J.

(with Guccione, Rosalia) Theory of higher multipole contributions to two-photon absorption processes. *Phys. Rev. Lett.* 14 (1965), 583-584. (A. C. Hurley) 31 #1054

an Leer, B. See van Leer, B.

an Leeuwen, J. M. J. See van Leeuwen, J. M. J.

an Leeuwen, L. C. A. See van Leeuwen, L. C. A.

an Leuven, J. C. See van Leuven, J. C.

an Leuven, P. See van Leuven, P.

an Lian′. See Wang Lien.

an Linde, H. J. See van Linde, H. J.

an Lint, Jacobus Hendricus. See van Lint, Jacobus Hendricus.

an Ljan′. See Wang Lien.

an Meter, Karl M. See van Meter, Karl M.

an Moeseke, P. See van Moeseke, Paul.

an Ness, James E.

Inverse iteration method for finding eigenvectors. *IEEE Trans. Automatic Control* AC-14 (1969), 63-66. (Author's summary) 40 #3705

an Ness, John W.

(with Rosenblatt, M.) Estimation of the bispectrum. *Ann. Math. Statist.* 36 (1965), 1120-1136. (E. Parzen) 31 #4139

Asymptotic normality of bispectral estimates. *Ann. Math. Statist.* 37 (1966), 1257-1272. (E. Parzen) 33 #6803

(with Woodroofe, Michael B.) The maximum deviation of sample spectral densities. *Ann. Math. Statist.* 38 (1967), 1558-1569. (S. Csibi) 35 #7546

(with Mandelbrot, Benoit B.) Fractional Brownian motions, fractional noises and applications. *SIAM Rev.* 10 (1968), 422-437. (D. R. Brillinger) 39 #3572

(with Fisher, Lloyd) Distinguishability of probability measures. *Ann. Math. Statist.* 40 (1969), 381-392. (J. H. Stapleton) 40 #956

an Niekerk, F. D. See van Niekerk, F. D.

an Ni Kyong

The inclusion of one continuous decomposition of the space E^n in another. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 547-555. (A. Lelek) 43 #1159

Pseudoisotopy of the three-dimensional sphere S^3. *Dokl. Akad. Nauk SSSR* 199 (1971), 1002-1003 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1215-1217. (P. T. Church) 44 #4729

Certain continuous decompositions of the space E^n. (Russian) *Mat. Zametki* 10 (1971), 315-326. (Roman Duda) 44 #5939

an Ny Kyong. See Van Ni Kyong.

an Osdol, D. H.

Remarks concerning Ext* *(M, -)*. *Bull. Amer. Math. Soc.* 76 (1970), 612-617. (M. Tierney) 42 #6081

an Ouwerkerk-Dijkers, M. P. See van Ouwerkerk-Dijkers, M. P.

an Praag, Paul. See van Praag, Paul.

an-Que Ngo. See Ngô-van-Quê.

an Rooij, A. C. M. See van Rooij, A. C. M.

an Rootselaar, B. See van Rootselaar, Bob.

Van Ryzin, J. R.

(with Hannan, J. F.) Rate of convergence in the compound decision problem for two completely specified distributions. *Ann. Math. Ststist.* 36 (1965), 1743-1752. (M. Katz) 32 #1813

The compound decision problem with $m \times n$ finite loss matrix. *Ann. Math. Statist.* 37 (1966), 412-424. (T. S. Ferguson) 33 #1938

The sequential compound decision problem sith $m \times n$ finite loss matrix. *Ann. Math. Statist.* 37 (1966), 954-975. (S. Blumenthal) 33 #6795

Repetitive play in finite statistical games with unknown distributions. *Ann. Math. Statist.* 37 (1966), 976-994. (S. Blumenthal) 33 #5066

Bayes risk consistency of classification procedures using density estimation. *Sankhyā Ser. A* 28 (1966), 261-270. (L. J. Gleser) 35 #1158

Non-parametric Bayesian decision procedures for (pattern) classification with stochastic learning. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 479-494. *Academia, Prague,* 1967. (H. E. Reinhardt) 35 #6270

A stochastic "a posteriori" updating algorithm for pattern recognition. *J. Math. Anal. Appl.* 20 (1967), 359-379. (S. Csibi) 36 #2426

On strong consistency of density estimates. *Ann. Math. Statist.* 40 (1969), 1765-1772. (J. H. Stapelton) 41 #2819

(with Sclove, S. L.) Estimating the parameters of a convolution. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 181-191. (M. Stone) 42 #5374

(with Sclove, Stanley L.) Estimating the parameters of a linear function of a random variable. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 362-368. 44 #4836

Van Scheepen, F. See van Scheepan, F.

Van Schieveen, Henk M. See van Schieveen, Henk M.

Van Šen-van. See Wang Sheng-wang.

Van Slyke, Richard M.

(with Dantzig, George B.) A generalized upper-bounded technique for linear programming. *Proc. IBM Sci. Comput. Sympos. Combinatorial Problems (Yorktown Heights, N. Y.,* 1964*), pp.* 249-261. *IBM Data Process. Division, White Plains, N. Y.,* 1966. (K. Ritter) 36 #4895

(with Wets, Roger) Programming under uncertainty and stochastic optimal control. *SIAM J. Control* 4 (1966), 179-193. (J. N. Kapur) 33 #2459

(with Wets, Roger J.-B) Stochastic programs in abstract spaces. *Stochastic Optimization and Control (Proc. Advanced Seminar, Madison, Wis.,* 1967*), pp.* 25-45. *John Wiley, New York,* 1968. (B. Bereanu) 41 #3159

(with Dantzig, G. B.) Generalized upper bounding techniques. *J. Comput. System Sci.* 1 (1967), 213-226. (A. G. Azpeitia) 37 #6103; erratum, 41 p. 1963

(with Wets, Roger J.-B) A duality theory for abstract mathematical programs with applications to optimal control theory. *J. Math. Anal. Appl.* 22 (1968), 679-706. (V. F. Dem′janov) 37 #5047

(with Wets, Roger) *L*-shaped linear programs with applications to optimal control and stochastic programming. *SIAM J. Appl. Math.* 17 (1969), 638-663. (H. Taylor) 40 #6955

(with Kapur, Kailash C.) Cutting plane algorithms and state space constrained linear optimal control problems. *J. Comput. System Sci.* 4 (1970), 570-605. (L. Cesari) 42 #6691

Vanstone, J. R.

Connections satisfying a generalized Ricci lemma. *Canad. J. Math.* 16 (1964), 549-560. (T. J. Willmore) 29 #3998

Van Themaat, W. A. Verloren. See Verloren van Themaat, W. A.

Van Thiem, Le. See Lê Van Thiêm.

Van Tiel, J. See van Tiel, Jan.

Van Trees, Harry L.

Functional techniques for the analysis of the nonlinear behavior of phase-locked loops. *Proc. IEEE* 52 (1964), 894-911. (Author's summary) 30 #4488

Bounds on the accuracy attainable in the estimation of continuous random processes. *IEEE Trans. Information Theory* IT-12 (1966), 298-305. 33 #7184

Vantrusov, Ju. I.

The analysis of a finite graph. (Russian) *Mathematical Programming (Russian), pp.* 68-77. *Izdat. "Nauka", Moscow,* 1966. (W. Imrich) 36 #69

Computation of proper reserves of works in network graphs. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Èkonom. i Mat. Metody, Collection No. 1) (Russian), pp.* 95-102. *Izdat. "Nauka", Moscow,* 1969. (B. Zelinka) 44 #5094

Van Tun. See Wang Tung.

Van Tuyl, A. H.

The evaluation of some definite integrals involving Bessel functions which occur in hydrodynamics and elasticity. *Math. Comp.* 18 (1964), 421-432. (Y. L. Luke) 29 #2443

Van Vleck, F. S.

A note on the relation between periodic and orthogonal fundamental solutions of linear systems. II. *Amer. Math. Monthly* 71 (1964), 774-776. (J. O. C. Ezeilo) 31 #6029 (E)

(with Sonneborn, L. M.) The gang-bang principle for linear control systems. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 151-159. (H. Hermes) 30 #2972

Corrections for "A note on the relation between periodic and orthogonal fundamental solutions of linear systems. II". *Amer. Math. Monthly* 72 (1965), 295. (J. O. C. Ezeilo) 31 #6030

A bifurcation theorem for a class of differential equations. *Portugal. Math.* 24 (1965), 125-130. (S. P. Diliberto) 36 #5421

(with Himmelberg, C. J.) Some remarks on Filippov's lemma. *Proc. U.S.-Japan Seminar on Differential and Functional Equations (Minneapolis, Minn. 1967), pp.* 455-462. *Benjamin, New York,* 1967. (L. D. Berkovitz) 37 #4787

(with Himmelberg, C. J.) Some selection theorems for measurable functions. *Canad. J. Math.* 21 (1969), 394-399. (F. J. Almgren, Jr.) 38 #4637

(with Himmelberg, C. J.; Jacobs, M. Q.) Measurable multifunctions, selectors, and Filippov's implicit functions lemma. *J. Math. Anal. Appl.* 25 (1969), 276-284. (G. Freilich) 38 #3401

(with Himmelberg, C. J.; Porter, J. R.) Fixed point theorems for condensing multifunctions. *Proc. Amer. Math. Soc.* 23 (1969), 635-641. (Ky Fan) 39 #7480

Van Vleck, J. H.

Note on the use of the Dirac vector model in magnetic materials. *Univ. Nac. Tucumán Rev. Ser. A* 14 (1962), 189-196. (Author's summary) 29 #3152

Group theory for permutation degeneracy in four electrons, and the Pauli exclusion principle. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 16(20) (1970), *fasc.* 3-4, *secţ. I*, 159-165. (J.-L. Calais) 44 #2422

Van Vliet, K. M. See van Vliet, K. M.

Van Vollenhoven, J. See van Vollenhoven, J.

Van Wageningen, R. See van Wageningen, . .

Van Westrhenen, S. C. See van Westrhenen, S. C.

Van Wijngaarden, A. See van Wijngaarden, Adriaan.

Vanwormhoudt, M. C.

Onsager relations for linear electromagnetic media. *Physica* 31 (1965), 193-201. (K. Schram) 31 #6517

Van Wyk, Rodney

Variable mesh multistep methods for ordinary differential equations. *J. Computational Phys.* 5 (1970), 244-264. (C. C. Conley) 41 #4813

Vanyashin, V. S. See Vanjašin, V. S.

Vanyašin, V. S. See Vanjašin, V. S.

Vanzani, V.

Niclear rearrangement processes in an exact N-body theory. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 525-543. (K. Kumar) 43 #5842

Van Zanten, A. J. See van Zanten, A. J.

Vanžura, Jiří

Invariants of submanifolds. *Czechoslovak Math. J.* 19(94) (1969), 452-468. (H. W. Guggenheimer) 40 #3568

Remark on involutive subspaces and regular bases. *Czechoslovak Math. J.* 19(94) (1969), 515-517. (H. H. Johnson) 41 #6253

Tensor-invariants of submanifolds. *Czechoslovak Math. J.* 21(96) (1971), 437-448. (H. W. Guggenheimer) 44 #4765

Van Zwet, W. R. See van Zwet, Willem R.

Vaona, Guido

Sulla deformazione proiettiva dei tritessuti di curve piane in sè. *Atti Sem. Mat. Fis. Univ. Modena* 14, (1965), 1-29. (P. Drăgilă) 33 #6522

Vapne, Amitai

(with Leron, Uri) Polynomial identities of related rings. *Israel J. Math.* 8 (1970), 127-137. (G. Betsch) 42 #4589

Vapnè, Ju. E.

A criterion for the representability of a direct wreath product of groups by matrices. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 13-16. (M. Greendlinger) 43 #6337

The representability of a direct wreath product of groups by matrices. (Russian) *Mat. Zametki* 7 (1970), 181-190. (B. Hartley) 41 #3614

Central series and series of commutator groups of certain matrix groups. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 497-504. (J. D. Dixon) 44 #2839

Vapnik, V. N.

(with Červonenkis, A. Ja.) On a perceptron class. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 112-120. (Editors 32 #2266

(with Červonenkis, A. Ja.) On a class of algorithms for pattern recognition learning. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 937-945. (Authors' summary) 29 #3288

(with Červonenkis, A. Ja.) The uniform convergence of frequencies of the appearance of events to their probabilities. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 781-783. (R. M. Dudley) 37 #6986

(with Červonenkis, A. Ja.) The uniform convergence of frequencies of the appearance of events to their probabilities. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 16 (1971), 264-279. (R. M. Dudley) 44 #6018

Vapnjarskiĭ, I. B.

An existence theorem in optimal control for the Bolza problem, some of its applications and necessary conditions for optimality of gliding and singular regimes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 259-283. (W. M. Wonham) 35 #3514 (E)

Letter to the editors. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 500. (Editors) 41 #2505

Varadarajan, K.

Dimension, category and $K(\Pi,n)$ spaces. *General Topology and its Relations to Modern Analysis and Algebra (Proc. Sympos., Prague, 1961), pp.* 354-355. *Academic Press, New York; Publ. House Czech. Acad. Sci., Prague;* 1962. (Editors) 30 #4260

* (with Narasimhan, M. S.; Ramanan, S.; Sridharan, R.) Algebraic topology. Mathematical Pamphlets, 2. *Tata Institute of Fundamental Research, Bombay,* 1964. v + 39 *pp.* (From the preface) 41 #2659

On fibrations and category. *Math. Z.* 88 (1965), 267-273. (D. G. Bourgin) 31 #5199

Groups for which Moore spaces $M(\pi, 1)$ exist. *Ann. of Math.* (2) 84 (1966), 368-371. (H. Cartan) 34 #2017

Microbundles and disk bundles. *Topology* 6 (1967), 43-48. (J. Kister) 34 #8428

On a conjecture of Milnor. *Illinois J. Math.* 13 (1969), 438-447. (P. S. Green) 39 #6330

A note on topological parallelizability. *Proc. Amer. Math. Soc.* 22 (1969), 607-609. (R. L. E. Schwarzenberger) 39 #6342

(with Swarup, G. A.) On some applications of a theorem of Browder-Levine-Livesay. *Proc. Cambridge Philos. Soc.* 66 (1969), 517-519. (R. Schultz) 39 #6329

Generalised Gottlieb groups. *J. Indian Math. Soc. (N.S.)* 33 (1969), 141-164 (1970). (W. Metzler) 43 #6926

A note on cobordism. *Illinois J. Math.* 15 (1971), 203-211. (Edgar H. Brown, Jr.) 43 #4047

Varadarajan, M.

(with Rajagopal, C. T.; Reddy, A. R.) On a class of formulae for the order and the lower order of an entire function. *Indian J. Math.* 9 (1967), 477-487 (1968). (Authors' review (Zbl 185, 142)) 43 #2215

Varadarajan, V. S.

Probability in physics and a theorem on simultaneous observability *Comm. Pure Appl. Math.* 15 (1962), 189-217. (H. Tong) 29 #917 (E)

(with Rao, C. Radhakrishna) Discrimination of Gaussian processes. *Sankhyā Ser. A* 25 (1963), 303-330. (J. Hájek) 32 #572

Erratum: Probability in physics and a theorem on simultaneous observability. *Comm. Pure Appl. Math.* 18 (1965), 757. (H. Tong) 32 #8722

(with Rao, C. Radhakrishna) Discrimination of Gaussian processes. *Contributions to Statistics, pp.* 363-390. *Statist. Publ. Soc., Calcutta,* 1965. (T. Pitcher) 35 #7541

Representations of semi-simple Lie algebras. *Math. Student* 33 (1965), 37-44. (C. W. Curtis) 32 #2517

(with Parthasarathy, K. R.; Ranga Rao, R.) Representations of complex semisimple Lie groups and Lie algebras. *Bull. Amer. Math. Soc.* 72 (1966), 522-525. (C. W. Curtis) 33 #7462

(with Parthasarathy, K. R.; Ranga Rao, R.) Representations of complex semi-simple Lie groups and Lie algebras. *Ann. of Math.* (2) 85 (1967), 383-429. (C. W. Curtis) 37 #1526

On the ring of invariant polynomials on a semisimple Lie algebra. *Amer. J. Math.* 90 (1968), 308-317. (S. Murakami) 37 #1529

(with Trombi, P. C.) Spherical transforms on semisimple Lie groups. *Ann. of Math.* (2) 94 (1971), 246-303. (G. A. Reid) 44 #6913

Varadhan, S. R. S.

Limit theorems for sums of independent random variables with values in a Hilbert space. *Sankhyā Ser. A* 24 (1962), 213-238. (J. E. Cigler) 30 #1536 (with Parthasarathy, K. R.; Ranga Rao, R.) Probability distributions on locally compact abelian groups. *Illinois J. Math.* 7 (1963), 337-369. (D. Szász) 32 #8378

Limit theorems in probability. *Math. Student* 32 (1964), 17-21. (J. E. Cigler) 31 #6274

(with Parthasarathy, K. R.) Extension of stationary stochastic processes. (Russian summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 72-78. (T. Kawata) 29 #1661

Asymptotic probabilities and differential equations. *Comm. Pure Appl. Math.* 19 (1966), 261-286. (H. P. McKean, Jr.) 34 #3083

On the behavior of the fundamental solution of the heat equation with variable coefficients. *Comm. Pure Appl. Math.* 20 (1967), 431-455. (J. Cohen) 34 #8001

Diffusion processes in a small time interval. *Comm. Pure Appl. Math.* 20 (1967), 659-685. (H. P. McKean, Jr.) 36 #970

* Stochastic processes. Notes based on a course given at New York University during the year 1967/68. *Courant Institute of Mathematical Sciences, New York University, New York,* 1968. v + 190 *pp.* (J. R. Kinney) 41 #4657

(with Stroock, Daniel W.) Diffusion processes with continuous coefficients. I. *Comm. Pure Appl. Math.* 22 (1969), 345-400. (H. P. McKean, Jr.) 40 #6641

(with Stroock, Daniel W.) Diffusion processes with continuous coefficients. II. *Comm. Pure Appl. Math.* 22 (1969), 479-530. (H. P. McKean, Jr.) 40 #8130

(with Stroock, Daniel W.) Diffusion processes with boundary conditions. *Comm. Pure Appl. Math.* 24 (1971), 147-225. (J. A. Beekman) 43 #2774

Varah, J. M.

The calculation of the eigenvectors of a general complex matrix by inverse iteration. *Math. Comp.* 22 (1968), 785-791; *addendum, ibid.* 22 (1968), *no.* 104, *loose microfiche suppl.* A1-A13. (M. Lotkin) 39 #2313

Rigorous machine bounds for the eigensystem of a general complex matrix. *Math. Comp.* 22 (1968), 793-801; *addendum, ibid.* 22 (1968), *no.* 104, *loose microfiche suppl.* B1-B7. (M. Lotkin) 39 #5052

Maximum norm stability of difference approximations to the mixed initial boundary-value problem for the heat equation. *Math. Comp.* 24 (1970), 31-44. (V. Thomée) 41 #4843

Computing invariant subspaces of a general matrix when the eigensystem is poorly conditioned. *Math. Comp.* 24 (1970), 137-149. (L. W. Ehrlich) 41 #9434

Varaiya, Pravin P.

(with Liu, R.) Bounded-input—bounded-output stability for the Lur'e problem. *IEEE Trans. Automatic Control* AC-11 (1966), 745-746. (K. W. Chang) 34 #5534

Decomposition of large-scale systems. *SIAM J. Control* 4 (1966), 173-178. (From the author's introduction) 32 #7250

(with Liu, R.) Bounded-input bounded-output stability of nonlinear time-varying differential systems. *SIAM J. Control* 4 (1966), 698-704. (Henry Hermes) 34 #4024

(with Eggert, D.) Affine dynamical systems. *J. Comput. System Sci.* 1 (1967), 330-348. (W. R. Utz) 37 #6562

On the trajectories of a differential system. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif.,* 1967*), pp.* 115-128. *Academic Press, New York,* 1967. (J. Warga) 40 #4561

Nonlinear programming in Banach space. *SIAM J. Appl. Math.* 15 (1967), 284-293. (R. W. Cottle) 36 #1210

On determinable classes of signals and linear channels. *SIAM J. Appl. Math.* 15 (1967), 440-449. (F. Jelinek) 36 #1236

(with Desoer, C. A.) The minimal realization of a nonanticipative impulse matrix. *SIAM J. Appl. Math.* 15 (1967), 754-764. (P. R. Bryant) 36 #2413

On the existence of solutions to a differential game. *SIAM J. Control* 5 (1967), 153-162. (E. O. Roxin) 35 #1365

Differential games of fixed duration. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,*1968*), pp.* 753-754. *Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #2366

(with Eggert, D.) Representation of a differential system. *J. Differential Equations* 4 (1968), 280-299. (J. Warga) 37 #801

(with Root, W. L) Capacity of classes of Gaussian channels. *SIAM J. Appl. Math.* 16 (1968), 1350-1393. (E. A. Robinson) 39 #5228

(with Forys, L. J.) The ε-capacity of classes of unknown channels. *Information and Control* 14 (1969), 376-406. (M. Zakai) 40 #7008

N-person nonzero sum differential games with linear dynamics. *SIAM J. Control* 8 (1970), 441-449. (J. Fichefet) 43 #4489

Differential games with dynamical systems. *Differential Games and Related Topics (Proc. Internat. Summer School, Varenna,* 1970*), pp.* 129-144. *North-Holland, Amsterdam,* 1971 (C. R. Hadlock) 43 #4488

(with Borgest, Wladimir) Target function approach to linear pursuit problems. *IEEE Trans. Automatic Control* AC-16 (1971), 449-459. (A. Friedman) 44 #3714

(with Verma, Jai Prakash) Equivalent nonlinear reciprocal networks. *IEEE Trans. Circuit Theory* CT-18 (1971), 214-217. (R. Brayton) 42 #9090

(with Burkhard, W. A.) Complexity problems in real time languages. *Information Sci.* 3 (1971), 87-100. (J. Hopcroft) 43 #1773

Varbanec, P. D.

On Waring's theorem. (Russian) *First. Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 105-112. *Akad. Nauk Ukrain. SSR Inst. Mat., Diev,* 1965. (R. A. Rankin) 33 #1299

The distribution of solutions of the congruence $x^2 + y^2 \equiv 1 \pmod{p^1}$. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 96-98. (B. Gordon) 39 #1432

Varberg, Dale E.

On Gaussian measures equivalent to Wiener measure. *Trans. Amer. Math. Soc.* 113 (1964), 262-273. (R. V. Chacon) 29 #2357

On absolutely continuous functions. *Amer. Math. Monthly* 72 (1965), 831-841. (T. A. Botts) 32 #1310

On differentiable transformation in R^n. *Amer. Math. Monthly* 73 (1966), *no.* 4, *part II*, 111-114. (A. C. Zaanen) 33 #4216

Convergence of quadratic forms in independent random variables. *Ann. Math. Statist.* 37 (1966), 567-576. (P. Whittle) 32 #8394

On Gaussian measures equivalent to Wiener measure. II. *Math. Scand.* 18 (1966), 143-160. (D. Babbitt) 35 #3729

Linear transformations of Gaussian measures. *Trans. Amer. Math. Soc.* 122 (1966), 98-111. (D. A. Woodward) 33 #8028

Equivalent Gaussian measures with a particularly simple Radon-Nikodym derivative. *Ann. Math. Statist.* 38 (1967), 1027-1030. (L. A. Shepp) 35 #4981

The characteristic polynomial of a singular matrix. *Amer. Math. Monthly* 75 (1968), 506. (Marvin Marcus) 38 #165

Almost sure convergence of quadratic forms in independent random variables. *Ann. Math. Statist.* 39 (1968), 1502-1506. (M. M. Siddiqui) 37 #5921

The change of variables formula for Riemann integrals. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 239-240 (1969). (W. J. Wilbur) 40 #5803

(with Serrin, James) A general chain rule for derivatives and the change of variables formula for the Lebesgue integral. *Amer. Math. Monthly* 76 (1969), 514-520. (R. S. Booth) 40 #280

(with Roberts, A. Wayne) Functions of bounded convexity. *Bull. Amer. Math. Soc.* 75 (1969), 568-572. (F. Brooks) 39 #380

Change of variables in multiple integrals. *Amer. Math. Monthly* 78 (1971), 42-45. (G. V. Welland) 42 #7843

Varčenko, A. N.

The branching of multiple integrals which depend on parameters. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no* 4, 79-80. (B. Cenkl) 41 #1078

Varcollier, Henri

* Nombres premiers, nombres avant-premiers. *Presses Universitaires de France, Paris,* 1965. xi + 94 *pp.* (L. Carlitz) 32 #5616

Vardanjan, V. A.

(with Oganesjan, R. S.) Theory of the magnetogravitational instability of a sphere with variable density. *Astronom. Ž.* 40 (1963), 751-753 *(Russian); translated as Soviet Astronom. AJ* 7 (1964), 572-573. (H. C. Kranzer) 33 #3757

On the theory of gravitational stability of a non-uniform cylindrical configuration. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 2, 127-133. (A. J. Coleman) 30 #941

Vardanyan, V. A. See Vardanjan, V. A.

Varde, S. D.

} Life testing and reliability estimation for the two parameter exponential distribution. *J. Amer. Statist. Assoc.* 64 (1969), 621-636. 39 #7779

Vareh, N. V.

(with Ševelo, V. M.) Some properties of solutions of nonlinear non-autonomous ordinary differential equations of the second order. (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian, pp.* 237-247. *Naukova Dumka, Kiev,* 1967. (R. Reissig) 35 #6937

(with Ševelo, V. M.) The zeros of the solutions of second order nonlinear nonautonomous ordinary differential equations. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 33-41. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (M. Bertolino) 43 #622

(with Ševelo, V. M.) The zeros of solutions of nonlinear non-autonomous ordinary differential equations of the second order. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 430-434. (V. Šeda) 37 #6540

Varela B., J.

Une note sur des modules élastiques. *Rev. Colombiana Mat.* 1 (1967), 26-28. (S. Greco) 38 #5761

Varelas, Georgios D.

Correspondence of the points of two curves. Application of the formulas of Frenet generalized by Prof. S. Sarantopoulos. (Greek. French summary) *Bull. Soc. Math. Grèce (N.S.)* 5 (1964), *fasc.* 1-2, 137-227. (Editors) 32 #8265

(The sign } indicates an entry in the supplement.)

Varga, B. B.

(with Reich, A. D.; Madigan, J. R.) Thermoelectric and thermomagnetic heat pumps. *J. Appl. Phys.* 34 (1963), 3430-3441. (J. Meixner) 29 #4415

(with Engelsberg, Stanley) One-dimensional electron-phonon model. *Phys. Rev.* (2) 136 (1964), A1582-A1598. (K. K. Gupta) 32 #8915

Varga, G.

(with Nemetz, T.) Extension of limit theorems. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 415-421. (E. Lukacs) 37 #5919

Varga, László

On a stochastic process concerning the logarithmic counting rate meter. (Hungarian. English and Russian summaries) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 7 (1962), 479-485 (1963). (Author's summary) 29 #652

A class of methods for function minimization. *Studia Sci. Math. Hungar.* 4 (1969), 291-300. (H. H. Goldstine) 40 #1011; erratum, 40, p. 1706

Varga, O. H.

Hyperflächen mit Minkowskischer Massbestimmung in Finslerräumen. *Publ. Math. Debrecen* 11 (1964), 301-309. (S. Ide) 30 #2446

Zur sphärischen Abbildung in Riemannschen Räumen. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 507-512. (A. Gray) 34 #764

* Stress-strain behavior of elastic materials. Selected problems of large deformations. Polymer Reviews, Vol. 15. *Interscience Publishers [John Wiley & Sons], New York-London-Sydney,* 1966. x + 190 *pp.* (W. H. Yang) 34 #5350

Die Methode des beweglichen n-Beines in der Finsler-Geometrie. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 207-215. (T. Ohkubo) 34 #8356

(with Merza, József) Ferenc Kárteszi: On his sixtieth birthday. (Hungarian) *Mat. Lapok* (1967), 273-282. (Editors) 39 #24

Hyperflächen konstanter Normalkrümmung in Finslerschen Räumen. *Math. Nachr.* 38 (1968), 47-52. (S. Ide) 38 #2718

Beziehung der ebenen verallgemeinerten nichteuklidischen Geometrie zu gewussen Flächen im pseudominkowskischen Raum. *Aequationes Math.* 3 (1969), 112-117. (H. Lenz) 40 #3418

Scientific works. (Hungarian) *Mat. Lapok* 20 (1969), 3-5. (Editors) 40 #5406

(See also Bibliography, 40 #7080)

Zur Invarianz des Krümmungsmaßes der Winkelmetrik in Finsler-Räumen bei Einbettungen. *Math. Nachr.* 43 (1970), 11-18. (A. Kawaguchi) 41 #4464

Varga, Richard S.

(with Birkhoff, Garrett; Young, David) Alternating direction implicit methods. *Advances in Computers, Vol.* 3, *pp.* 189-273. *Academic Press, New York,* 1962. (J. Douglas, Jr.) 29 #5395

(with Hageman, Louis A.) Block iterative methods for cyclically reduced matrix equations. *Numer. Math.* 6 (1964), 106-119. (J. Schröder) 29 #4185

On smallest isolated Gerschgorin disks for eigenvalues. *Numer. Math.* 6 (1964), 366-376. (James H. Wilkinson) 30 #4379

Iterative methods for solving matrix equations. *Amer. Math. Monthly* 72 (1965), *no.* 2, *part II,* 67-74. (From the author's introduction) 30 #2677

(with Birkhoff, Garrett) Discretization errors for well-set Cauchy problems. I. *J. Math. and Phys.* 44 (1965), 1-23. (M. Lees) 31 #4189

Minimal Gerschgorin sets. *Pacific J. Math.* 15 (1965), 719-729. (M. Marcus) 32 #1206

Hermite interpolation-type Ritz methods for two-point boundary value problems. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland,* 1965), *pp.* 365-373. *Academic Press, New York,* 1966. (B. Hubbard) 34 #5302

(with Price, Harvey S.; Warren, Joseph E.) Application of oscillation matrices to diffusion-convection equations. *J. Math. and Phys.* 45 (1966), 301-311. (L. Collatz) 34 #7046

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for nonlinear boundary value problems. I. One dimensional problem. *Numer. Math.* 9 (1966/67), 394-430. (F. Perrin) 36 #4813

(with Levinger, B. W.) Minimal Gerschgorin sets. II. *Pacific J. Math.* 17 (1966), 199-210. (M. Marcus) 33 #2639

(with Levinger, Bernard W.) On a problem of O. Taussky. *Pacific J. Math.* 19 (1966), 473-487. (O. Taussky-Todd) 34 #5845

On a discrete maximum principle. *SIAM J. Numer. Anal.* 3 (1966), 355-359. (H. Oser) 34 #2219

(with Schultz, M. H.) *L*-splines. *Numer. Math.* 10 (1967), 345-369. (A. Sharma) 37 #665

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for non-linear two-point boundary value problems. (French summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No.* 165, *Besançon,* 1966*), pp.* 217-225. *Éditions Centre Nat. Recherche Sci., Paris,* 1968. (G. N. Lance) 38 #1837

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for nonlinear boundary value problems. III. Eigenvalue problems. *Numer. Math.* 12 (1968), 120-133. (F. Perrin) 38 #1838

On an extension of a result of S. N. Bernstein. *J. Approximation Theory* 1 (1968), 176-179. (Bruno Brosowski) 39 #1875

Nonnegatively posed problems and completely monotonic functio *Linear Algebra and Appl.* 1 (1968), 329-347. (P. Laasonen) 38 #40

(with Birkhoff, G.; Schultz, M. H.) Piecewise Hermite interpolation in one and two variables with applications to partia differential equations. *Numer. Math.* 11 (1968), 232-256. (F. Perrin) 37 #2404

(with Medley, Helen I.) On smallest isolated Gerschgorin disks for eigenvalues. II. *Numer. Math.* 11 (1968), 320-323. (James H. Wilkinson) 37 #4952

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for nonlinear boundary value problems. II. Nonlinear boundary conditions. *Numer. Math.* 11 (1968), 331-345. (F. Perrin) 37 #4965

(with Medley, Helen I.) On smallest isolated Gerschgorin disks for eigenvalues. III. *Numer. Math.* 11 (1968), 361-369. (James H. Wilkinson) 37 #4953

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for nonlinear boundary value problems. IV. Periodic boundary conditions. *Numer. Math.* 12 (1968), 266-279. (F. Perrin) 39 #2337

(with Jerome, J. W.) Generalizations of spline functions and applications to nonlinear boundary value and eigenvalue problems. *Theory and Applications of Spline Functions (Proceedings of Seminar, Math. Research Center, Univ. of Wisconsin, Madison, Wis.,* 1968), *pp.* 103-155. *Academic Press, New York,* 1969. (E. W. Cheney 39 #685

Error bounds for spline interpolation. *Approximations with Special Emphasis on Spline Functions (Proc. Sympos. Univ. of Wisconsin, Madison, Wis.,* 1969), *pp.* 367-388. *Academic Press, New York,* 1969. (L. L. Schumaker) 40 #6130

(with Herbold, R. J.; Schultz, M. H.) The effect of quadrature errors in the numerical solution of boundary value problems by variational techniques. *Aequationes Math.* 3 (1969), 247-270. (F. Stenger) 41 #6410

(with Cody, W. J.; Meinardus, G.) Chebyshev rational approximations to e^{-x} *in* [0, + ∞) and applications to heat-conduction problems. *J. Approximation Theory* 2 (1969), 50-65. (H. Werner) 39 #6536

(with Ciarlet, P. G.; Schultz, M. H.) Numerical methods of high-order accuracy for nonlinear boundary value problems. V. Monotone operator theory. *Numer. Math.* 13 (1969), 51-77. (F. Perrin) 40 #3730

(with Perrin, F. M.; Price, H. S.) On higher-order numerical methods for nonlinear two-point boundary value problems. *Numer. Math.* 13 (1969), 180-198. (P. G. Ciarlet) 40 #8276

(with Marek, Ivo) Nested bounds for the spectral radius. *Numer. Math.* 14 (1969/70), 49-70. (J. Vandergraft) 41 #2428

(with Price, Harvey S.) Error bounds for semidiscrete Galerkin approximations of parabolic problems with applications to petroleum reservoir mechanics. *Numerical Solution of Field Problems in Continuum Physics (Proc. Sympos. Appl. Math., Durham, N. C.* 1968*), SIAM-AMS Proc., Vol. II,* 74-94. *Amer. Math. Soc., Providence R. I.,* 1970. (L. Hageman) 42 #1358

(See also Numerical solution of field problems in continuum physics, 40 #7059)

Accurate numerical methods for nonlinear boundary value problems. *Numerical Solution of Field Problems in Continuum Physic (Proc. Sympos. Appl. Math., Durham, N. C.,* 1968), *SIAM-AMS Proc., Vol. II, pp.* 152-167. *Amer. Math. Soc., Providence, R. I.,* 1970. (J. Frehse) 42 #2650

Accurate numerical methods for nonlinear boundary value problems. *Studies in Numerical Analysis,* 2: *Numerical Solutions of Nonlinear Problems (Symposia, SIAM, Philadelphia, Pa.,* 1968*), pp* 99-113. *Soc. Indust. Appl. Math., Philadelphia, Pa.,* 1970. (P. G. Ciarlet) 42 #4026

(with Meinardus, Günter) Chebyshev rational approximations to cèrtain entire functions in [0, + ∞). *J. Approximation Theory* 3 (1970), 300-309. (L. Raymon) 43 #6633

(with Ciarlet, P. G.; Natterer, F.) Numerical methods of high-order accuracy for singular nonlinear boundary value problems. *Numer. Math.* 15 (1970), 87-99. (F. Perrin) 43 #1439

(with Ciarlet, P. G.) Discrete variational Green's function. II. One dimensional problem. *Numer. Math.* 16 (1970), 115-128. (J. W. McLaurin) 43 #1440

(with Householder, Alston S.; Wilkinson, James H.) A note on Gerschgorin's inclusion theorem for eigenvalues of matrices. *Numer. Math.* 16 (1970), 141-144. (J. Stoer) 43 #1401

Minimal Gerschgorin sets for partitioned matrices. *SIAM J. Numer. Anal.* 7 (1970), 493-507. (John Todd) 44 #1209

(with Hoffman, Alan J.) Patterns of dependence in generalizations of Gerschgorin's theorem. *SIAM J. Numer. Anal.* 7 (1970), 571-574. (B. Levinger) 44 #4022

(with Meinardus, G.; Reddy, A. R.; Taylor, G. D.) Converse theorems and extensions in Chebyshev rational approximation to certain entire functions in [0, + ∞). *Bull. Amer. Math. Soc.* 77 (1971), 460-461. (A. Meir) 42 #7911

(with Hedstrom, Gerald W.) Application of Besov spaces to spline approximation. *J. Approximation Theory* 4 (1971), 295-327. (L. L. Schumaker) 43 #7824

de Vargas Luque, Alberto Pérez. See Pérez de Vargas Luque, Alberto.

Varignon, Pierre

(See Costabel, Pierre, 34 #5619)

Varjuhin, V. A.

(with Kas'janjuk, S. A.; Finogenova, V. G.) A problem of constrained extremum for a class of functions representable by a Stieltjes integral. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 6 (55), 40-49. (W. C. Royster) 34 #6115

(with Kas'janjuk, S. A.) On a certain method for solving nonlinear systems of a special type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 347-352. (L. B. Rall) 35 #2481

(with Kas'janjuk, S. A.) The effect of fluctuations of the terms of a positive sequence on its canonical pricipal representations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 169-173. (A. Lupaş) 38 #4015

(with Kas'janjuk, S. A.) Iteration methods for sharpening the roots of equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 684-687. (A. S. Householder) 41 #4795

(with Kac'janjuk, S. A.) The iteration methods of the solution of nonlinear systems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1533-1536. (R. Zezula) 44 #2336

Varklon, L. I.

Investigation of solutions of a perturbed linear operator-equation. (Russian) *Comment. Math. Univ. Carolinae* 8 (1967), 13-26. (B. R. Gelbaum) 35 #4777

Varlamov, G. E.

(with Isabekov, M. B.) A two-parameter manifold of null-pairs in equiaffine space. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 93-98. (L. Tamássy) 36 #3253

Varlamova-Luks, L. N. See Luks, L. N.

arlet, J. C.

Contribution à l'étude des treillis pseudo-complémentés et des treillis de Stone. *Mém. Soc. Roy. Sci. Liège Coll. in-8°* (5) 8 (1963), *no.* 4, 71 pp. (G. Grätzer) 29 #2200

Idéaux dans les lattis pseudo-complémentés. *Bull. Soc. Roy. Sci. Liège* 33 (1964), 143-150. (G. Grätzer) 29 #2201

Congruences dans les demi-lattis. *Bull. Soc. Roy. Sci. Liège* 34 (1965), 231-240. (G. Grätzer) 32 #67

On the characterization of Stone lattices. *Acta Sci. Math. (Szeged)* 27 (1966), 81-84. (G. Grätzer) 33 #2580

(with Grillet, P. A.) Complementedness conditions in lattices. (French summary) *Bull. Soc. Roy. Sci. Liège* 36 (1967), 628-642. (R. P. Dilworth) 37 #3970

A generalization of the notion of pseudo-complementedness. *Bull. Soc. Roy. Sci. Liège* 37 (1968), 149-158. (G. S. Monk) 37 #3971

Algèbres de Lukasiewicz trivalentes. (English summary) *Bull. Soc. Roy. Sci. Liège* 37 (1968), 399-408. (G. Grätzer) 38 #5676

Fermetures multiplicatives. (English summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 101-115. (T. S. Blyth) 39 #7016

Considérations sur les algèbres de Lukasiewicz trivalentes. (English summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 462-469. (G. Grätzer) 41 #5255

Modularity and distributivity in partially ordered groupoids. (French summary) *Bull. Soc. Roy. Sci. Liège* 38 (1969), 639-648. (J. A. H. Shepperd) 43 #3189

Endomorphisms and fully invariant congruences in unary algebras $\langle A;\Gamma\rangle$. (French summary) *Bull. Soc. Roy. Sci. Liège* 39 (1970), 575-589. (A. Sade) 43 #4749

Varley, Eric

Acceleration fronts in viscoelastic materials. *Arch. Rational Mech. Anal.* 19 (1965), 215-225. (A. E. Green) 31 #1828

Simple waves in general elastic materials. *Arch. Rational Mech. Anal.* 20 (1965), 309-328. (A. C. Pipkin) 32 #666

(with Cumberbatch, E.) Non-linear theory of wave-front propagation. *J. Inst. Math. Appl.* 1 (1965), 101-112. (R. P. Kanwal) 33 #5202

(with Dunwoody, J.) The effect of non-linearity at an acceleration wave. *J. Mech. Phys. Solids* 13 (1965), 17-28. (C. Truesdell) 32 #667

(with Martin, D. W.) The axisymmetric bending of concrete cooling towers and other open shells of revolution. *Quart. J. Mech. Appl. Math.* 18 (1965), 173-190. (W. D. Kroll) 31 #2883

(with Day, Alan) Equilibrium phases of elastic materials at uniform temperature and pressure. *Arch. Rational Mech. Anal.* 22 (1966), 253-269. (R. A. Toupin) 34 #2239

(with Cumberbatch, E.) Generalized self-similar flows. *J. Inst. Math. Appl.* 2 (1966), 1-11. (P. Germain) 33 #5211

(with Cumberbatch, E.) Large amplitude waves in stratified media: Acoustic pulses. *J. Fluid Mech.* 43 (1970), 513-537. (V. M. Papadopoulos) 42 #4079

(with Mortell, M. P.) Finite amplitude waves in bounded media: nonlinear free vibrations of an elastic panel. *Proc. Roy. Soc. London Ser. A* 318 (1970), 169-196. (Authors' summary) 42 #5501

Varma, A. K.

(with Sharma, A.) Trigonometric interpolation. *Duke Math. J.* 32 (1965), 341-357. (R. P. Boas, Jr.) 31 #1497

On a problem of P. Turán on lacunary interpolation. *Canad. Math. Bull.* 10 (1967), 531-557. (D. C. Gilles) 39 #1859

(with Sharma, A.) Trigonometric interpolation (0, 2, 3) case. *Ann. Polon. Math.* 21 (1968), 51-58. (R. Kopp) 38 #2513

Simultaneous approximation of periodic continuous functions and their derivatives. *Israel J. Math.* 6 (1968), 66-73. (Yung-ming Chen) 38 #1460

Non existence of interpolatory polynomials. *Publ. Math. Debrecen* 15 (1968), 75-77. (F. Rosati) 39 #4562

(with Prasad, J.) An analogue of a problem of J. Balázs and P. Turán. *Canad. J. Math.* 21 (1969), 54-63. (J. R. Rice) 39 #1858

An application of a theorem of J. Czipszer and G. Freud to a problem of simultaneous approximation. *Canad. Math. Bull.* 12 (1969), 193-202. (S. Izumi) 41 #4104

Convergence of interpolatory polynomials on Tchebycheff abscissas. *Compositio Math.* 21 (1969), 7-20. (F. Rosati) 39 #4563

(with Gupta, S. K.) Some interpolatory properties of Jacobi polynomials (0,2) interpolation. *Gaṇita* 20 (1969), *no* 1, 79-93. (J. L. Fields) 42 #4925

Some remarks on trigonometric interpolation. *Israel J. Math.* 7 (1969), 177-185. (G. Sunouchi) 40 #3151

Trigonometric interpolation. *J. Math. Anal. Appl.* 28 (1969), 652-659. (S. Izumi) 41 #4105

An analogue of a problem of J. Balázs and P. Turán. III. *Trans. Amer. Math. Soc.* 146 (1969), 107-120. (A. Sharma) 42 #4924

(with Prasad, J.) An analogue of a problem of J. Balázs and P. Turán. II. Inequalities. *Ann. Polon. Math.* 23 (1970/71), 227-245. (A. Sharma) 42 #4923

(with Gupta, S. K.) An analogue of a problem of J. Balázs. *Studia Sci. Math. Hungar.* 5 (1970), 215-220. (J. Prasad) 44 #5661

On a new interpolation process. *J. Approximation Theory* 4 (1971), 159-164. (L. W. Johnson) 43 #2416

Varma, B. N.

A note on Fourier coefficients. *Rend. Sem. Mat. Univ. Padova* 42 (1969), 129-133. (F. Liverani) 43 #2417

Varma, C. M.

(with Tappert, F. D.) Asymptotic theory of self-trapping of heat pulses in solids. *Phys. Rev. Lett.* 25 (1970), 1108-1111. (J. F. Heyda) 42 #5526

Varma, H. O. Singh. See Singh Varma, H. O.

Varma, N. L.

(with Gandhi, J. M.) The stability of viscous flow between two coaxial rotating cylinders. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 70-74. (P. H. Roberts) 30 #788

Varma, R. C.

Applications of an identity of Menon to the summation of certain infinite series. *J. Mathematics (Jabalpur)* 1 (1965), 35-42. (B. E. Rhoades) 35 #5805

On some integrals involving Jacobi polynomials. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 465-468. (Author's summary) 40 #4505

Generalisation of MacRobert's results involving Legendre polynomials to other orthogonal polynomials. *J. Indian Math. Soc. (N.S.)* 31 (1967), 57-67 (1968). (E. J. Scott) 37 #5444

Generalisation of the results due to Wrinch for orthogonal polynomials. *J. Indian Math. Soc. (N.S.)* 31 (1967), 141-148 (1968). (B. R. Bhonsle) 38 #3482

Varma, R. K.

(with Murgai, M. P.) Radiative transfer effects in natural convection above fires—opaque approximation. *Quart. Appl. Math.* 22 (1965), 345-353. (J. F. Clarke) 32 #5039

Varma, R. S.

Entropy in information theory. *Gaṇita* 16 (1965), 1-6. 34 #7282

Generalizations of Renyi's entropy of order α. *J. Math. Sci.* 1 (1966), 34-48. (F. Jelinek) 35 #1407

(with Jain, J. L.) Queueing models. *J. Math. Sci.* 2 (1967), 49-74. (Editors) 37 #4895

(with Nath, Prem) Information theory--A survey. *J. Math. Sci.* 2 (1967), 75-109. (Editors) 37 #5056

Mathematics, biology and information theory. *Math. Student* 36 (1968), 8-29 (1969). (D. Rosenblatt) 41 #6587

Recent contributions in information theory. *Math. Student* 36 (1968), 93-111 (1969). (R. J. McEliece) 41 #9645

Varma, V. K.

On some infinite integrals involving the *E*-function of MacRobert and operational images. *Bull. Calcutta Math. Soc.* 53 (1961), 185-192. 29 #6072

On further generalisation of the new transform. *Bull. Calcutta Math. Soc.* 55 (1963), 79-87. (E. J. Scott) 29 #3837

On the asymptotic behaviour of $\bar{\omega}_{\nu_1,\cdots,\nu_m,\lambda}^{(x)}$. *Gaṇita* 15 (1964), 89-91. (Brij Mohan) 34 #4832

Some theorems on infinite series which are self-reciprocal in a certain transform. *Riv. Mat. Univ. Parma* (2) 5 (1964), 165-176. (S. C. Mitra) 34 #3242

On a multiple integral representation of a kernel of Fox. *Proc. Cambridge Philos. Soc.* 61 (1965), 469-474. (C. Fox) 30 #4120

On sums of finite series involving modified Bessel functions. *J. Indian Math. Soc. (N.S.)* 30 (1966), 173-178 (1967). (Brij Mohan) 36 #2840

On a new kernel and its relation with H-function of Fox. *Proc. Nat. Acad. Sci. India Sect. A* 36 (1966), 389-394. (M. Nassif) 41 #4128

Appell's double hypergeometric function as a generating function of the Jacobi polynomial. *Riv. Mat. Univ. Parma* (2) 8 (1967), 305-308. (L. J. Slater) 40 #1608

Double hypergeometric functions as generating functions of the Jacobi and Laguerre polynomials. *J. Indian Math. Soc. (N.S.)* 32 (1968), 1-5. (B. S. Tavathia) 39 #3064

Inversion of a class of transforms with a difference kernel. *Proc. Cambridge Philos. Soc.* 65 (1969), 673-677. (C. Fox) 38 #4925

Varnačeva, N. K.

Configuration T_6 of two pairs of congruences of reciprocal straight lines. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 50-54. (V. Havel) 34 #6673

(with Geĭdel'man, R. M.) Foundations of the symplectic theory of a complex of straight lines. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 35-40. (K. Svoboda) 34 #717

(with Geĭdel'man, R. M.) Introduction to the symplectic theory of line complexes. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 4 (47), 37-44. (M. Pinl) 33 #1803

Symplectic bending of a line complex. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 30 (1968), *vyp.* 4, 13-23. (A. Urban) 41 #4410

(with Geĭdel'man, R. M.) A certain property of reciprocal pairs of congruences of three-dimensional symplectic space. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 30 (1968), *vyp.* 4, 24-33. (A. Urban) 41 #4407

A configuration of T_6 complexes. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 30 (1968), *vyp.* 4, 192-208. 40 #7962

Varnavides, P.

Non-homogeneous binary quadratic forms. *Ann. Acad. Sci. Fenn. Ser. A I No.* 462 (1970), 28 *pp.* (D. G. James) 41 #6789

The nonhomogeneous minima of a class of binary quadratic forms. *J. Number Theory* 2 (1970), 333-341. (E. S. Barnes) 41 #6777

Varner, Ruth N.

(with Ku, Harr H.; Kullback, S.) On the analysis of multi-dimensional contingency tables. *J. Amer. Statist. Assoc.* 66 (1971), 55-64. 43 #1373

Varoli, Giuseppe

Sull'applicazione della programmazione dinamica del Bellman ad un problema di prenotazione di posti. (English summary) *Calcolo* 1 (1964), 189-213. (2 *inserts)* (P. L. Ivănescu) 30 #2927

Sulle funzioni esponenziale e circolari, di passo h, nel calcolo delle differenze finite. *Riv. Mat. Univ. Parma* (2) 5 (1964), 201-210. (T. N. E. Greville) 33 #6180

Varopoulos, Nicholas Th.

Sur les formes positives d'une algèbre de Banach. *C. R. Acad. Sci. Paris* 258 (1964), 2465-2467. (V. K. Balachandran) 33 #3121

Sur la continuité des fonctions définies sur un groupe localement compact. *C. R. Acad. Sci. Paris* 258 (1964), 2716-2719. (Deane Montgomery) 29 #183

A theorem on the continuity of homomorphisms of locally compact groups. *Proc. Cambridge Philos. Soc.* 60 (1964), 449-463. (K. H. Hofmann) 29 #184

Studies in harmonic analysis. *Proc. Cambridge Philos. Soc.* 60 (1964), 465-516. (K. H. Hofmann) 29 #1284

A theorem on cardinal numbers associated with a locally compact Abelian group. *Proc. Cambridge Philos. Soc.* 60 (1964), 701-704. (M. Rajagopalan) 29 #3570

The functions that operate on $B_c(\Gamma)$ of a discrete group Γ. *Bull. Soc. Math. France* 93 (1965), 301-321. (I. Glicksberg) 34 #565

Sur les mesures de Radon d'un groupe localement compact abélien. *C. R. Acad. Sci. Paris* 260 (1965), 1059-1062. (A. B. Simon) 30 #3384

Sur les ensembles parfaits et les séries trigonométriques. *C. R. Acad. Sci. Paris* 260 (1965), 3831-3834. (J.-P. Kahane) 32 #322

Sur les ensembles parfaits et les séries trigonométriques. *C. R. Acad. Sci. Paris* 260 (1965), 4668-4670; *ibid.* 260 (1965), 5165-5168; *ibid.* 260 (1965), 5997-6000. (C. S. Herz) 31 #2567

A theorem on the Bohr compactification of a locally compact Abelian group. *Proc. Cambridge Philos. Soc.* 61 (1965), 65-68. (I. Glicksberg) 30 #3173

A note on the abstract Wiener-Pitt phenomenon. *Proc. Cambridge Philos. Soc.* 61 (1965), 297-298. (K. H. Hofmann) 29 #6334

Sur les ensembles parfaits et les séries trigonométriques. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian)*, pp. 56-59. *Izdat. "Nauka", Moscow,* 1966. (Y. Katznelson) 35 #4680

A direct decomposition of the measure algebra of a locally compact abelian group. *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 1, 121-143. (Frank T. Birtel) 34 #3227

Sets of multiplicity in locally compact abelian groups. (French summary) *Ann. Inst. Fourier (Grenoble)* 16 (1966), *fasc.* 2, 123-158. (J. H. Neuwirth) 35 #3379

Sur les ensembles parfaits et les séries trigonométriques. *C. R. Acad. Sci. Paris Sér. A-B* 262 (1966), A384-A387. (C. S. Herz) 36 #617

Caractérisation des ensembles de Sidon d'une algèbre tensorielle. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A447-A449. (C. S. Herz) 35 #5946

Sur un théorème de M. Katznelson. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A785-A787. (Y. Katznelson) 35 #670

Sur un théorème de M. Paul Malliavin. *C. R. Acad. Sci. Pari Sér. A - B* 263 (1966), A834-A836. (Y. Katznelson) 35 #671

Spectral synthesis on spheres. *Proc. Cambridge Philos. Soc.* 62 (1966), 379-387. (C. S. Herz) 34 #1786

Tensor algebras and harmonic analysis. *Acta Math.* 119 (1967 51-112. (C. S. Herz) 39 #1911

On a problem of A. Beurling. *J. Functional Analysis* 2 (196 24-30. (R. E. Edwards) 39 #3317

Sur les ensembles de Kronecker. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A954-A957. (C. F. Dunkl) 39 #6020

Sur les ensembles de Kronecker et les fonctions de Lipschitz *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A74-A76. (E. Thoma 39 #6015

Tensor algebras over discrete spaces. *J. Functional Analysi* 3 (1969), 321-335. (A. B. Willcox) 40 #3328

(with Salinger, D. L.) Convolutions of measures and sets of analyticity. *Math. Scand.* 25 (1969), 5-18. (Y. Domar) 41 #

Groups of continuous functions in harmonic analysis. *Acta Math.* 125 (1970), 109-154. (C. F. Dunkl) 43 #7868

Sur la réunion de deux ensembles de Helson. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A251-A253. (K. Yale) 42 #818

Sidon sets in $\mathbb{R}^n$. *Math. Scand.* 27 (1970), 39-49. (R. E. Edwards) 42 #8184

(with Bernard, A.) Groupes de fonctions continues sur un compact. Applications à l'étude des ensembles de Kronecker. *Stud Math.* 35 (1970), 199-205. (A. B. Willcox) 42 #4969

A problem on Kronecker sets. *Studia Math.* 37 (1970), 95-101 (D. E. Ramirez) 42 #3493

Sur les ensembles de Helson. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A592-A593. (R. E. Edwards) 44 #732

Ensembles pics et ensembles d'interpolation pour les algèbre uniformes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A866-A867. (R. Rao Chivukula) 43 #5312a

Sur la réunion de deux ensembles d'interpolation d'une algè uniforme. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A950-A952. (R. Rao Chivukula) 43 #5312b

Varpahovskiĭ, F. L.

The non-realizability of disjunction of non-realizable formu of the propositional calculus. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1257-1258. (V. Devidé) 31 #2132

A certain class of realizable formulae of propositional logi (Russian. English summary) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 20 (1971), 8-23, 282. (G. E. Minc) 4 #6449

van der Varr, H. R. See van der Vaart, H. Robert.

Varšamov, R. R.

} On some singularities of linear codes which correct nonsymmetric errors. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 546-548. (P. Constantinescu) 29 #4622

} Mathematical methods of raising the reliability of actual communication systems. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 53-58. (S. Kotz) 32 #1067

(with Tenengol'c, G. M.) A code which corrects single asymmetric errors. (Russian. English summary) *Avtomat. i Teleme* 26 (1965), 288-292. (S. Kullback) 30 #2957

On a number-theoretic function having an application in codi theory. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 540-543. (S. Chowla) 31 #2230

Mathematical theory of unsymmetric systems of coding. (Russi *Rev. Roumaine Math. Pures Appl.* 10 (1965), 165-169. (P. Constantinescu) 32 #9150

(with Tenengol'c, G. M.) A certain class of cyslic codes. (Russian) *Problemy Kibernet. No.* 22 (1970), 157-166, 297-298. (J. Černý) 44 #8045

Varšavskiĭ, A. D.

Certain relations between an algebra of functions on a bicompact space and a closed subalgebra of it. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 4 61-67. (S. Warner) 36 #1987

On the question of the localness of function algebras. (Russ English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968 *no.* 5, 23-30. (A. Devinatz) 42 #2302

A function algebra of the second degree of nonlocalness. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 2 (146), 223-224. (B. R. Gelbaum) 39 #3318

A function algebra of the second degree of nonlocalness. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 266-280. (B. R. Gelbaum) 40 #4770

(The sign } indicates an entry in the supplement.)

Varšavskiĭ, V. I.

(with Voroncova, I. P.) On the behavior of stochastic automata with a variable structure. *Avtomat. i Telemeh.* 24 (1963), 353-360 *(Russian. English summary); translated as Automat. Remote Control* 24 (1963), 327-333. (R. M. Karp) 29 #1110

Ternary majority logic. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 673-684. (Author's summary) 29 #3013

(with Rozenbljum, L. Ja.) The synthesis of pyramidal schemes of majority elements. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 1, 28-33. (A. P. Ershov) 32 #5462

(with Rozenbljum, L. Ja.) Certain ways of constructing circuits from majority elements. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 3, 76-81. (A. A. Mullin) 32 #9160

The collective behavior of automata. (Russian) *Ėkonom. i Mat. Metody* 6 (1970), 311-328. (J. Černý) 44 #1522

(with Marahovskiĭ, V. B.; Pesčanskiĭ, V. A.) Synchronization of interacting automata. *Math. Systems Theory* 4 (1970), 212-230. (J. D. Rutledge) 42 #9100

Varsavsky, Oscar Alberto

(See Kelley, John L., 33 #6566)

Relations triples dans les programmes linéaires généralisés. *C. R. Acad. Sci. Paris* 259 (1964), 2585-2588. (H. F. Karreman) 29 #6932

Varshavskii, V. I. See Varšavskiĭ, V. I.

Varshney, O. P.

On the absolute summability of Fourier series by a Nörlund method. *Univ. Roorkee Res. J.* 6 (1963), *no.* 1, 103-113. (S. Ikehara) 32 #2837

On Iyengar's Tauberian theorem for Nörlund summability. *Tôhoku Math. J.* (2) 16 (1964), 105-110. (S. Ikehara) 29 #1498

On a relation between harmonic summability and Lebesgue summability. *Riv. Mat. Univ. Parma* (2) 6 (1965), 273-281. (S. K. Basu) 36 #6829

On the Norlund summability of Fourier series. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 52 (1966), 1552-1558. (B. N. Sahney) 36 #5608

On the absolute Nörlund summability of a Fourier series and its differentiated series. (Italian summary) *Boll. Un. Mat. Ital.* (4) 1 (1968), 500-507. (U. C. Guha) 38 #6302a

(with Prasad, Govind) On a Tauberian theorem for absolute harmonic summability. *Proc. Cambridge Philos. Soc.* 65 (1969), 93-99. (L. Hoischen) 38 #2489

Varshney, Ram G.

On generalized $|V,\lambda|$ summability factors on infinite series. *Kōdai Math. Sem. Rep.* 21 (1969), 281-289. (F. P. Cass) 42 #2215 (E)

Errata: "On generalized $|V,\lambda|$ summability factors of infinite series". *Kōdai Math. Sem. Rep.* 22 (1970), 250. (F. P. Cass) 42 #3466

Vartak, Manohar Narhar

(with Patwardhan, G. A.) The 2-adjugate mod 2 class of designs. *J. Combinatorial Theory Ser. A* 11 (1971), 11-26. (S. S. Shrikhande) 43 #4697

Connectedness of Kronecker product designs. *J. Indian Statist. Assoc.* 1 (1963), 215-218. (J. Sacks) 29 #2918

Vartapetov, Ė. A.

On a class of compositions of automata. (Russian) *Automata Theory and Methods of Formalized Synthesis of Computers and Systems (Proc. Seminar, Kiev,* 1968*). No.* 4 *(Russian), pp.* 39-49. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. (Editors) 39 #6694

The imbedding of asynchronic automata into a product of finite automata. (Russian. English summary insert) *Kibernetika (Kiev)* 1970, *no.* 3, 39-40. (B. Csákány) 43 #8468

Varvak, L. P.

(with Bucan, G. P.) On the question of games on a graph. (Russian. German summary) *Algebra and Math. Logic: Studies in Algebra (Russian), pp.* 122-138. *Izdat. Kiev. Univ., Kiev,* 1966. (W. Imrich) 34 #7399

A generalization of the concept of p-sum of graphs. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 965-968. (A. Rosa) 39 #6776

Vašakidze, I. Š.

(with Muradjan, R. M.; Tavhelidze, A. N.; Čilašvili, G. A.; Šelest, V. P.) Analytic features of the scattering amplitude in the nonrelativistic three-body problem. *Dokl. Akad. Nauk SSSR* 158 (1964), 1302-1305 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 910-912. (R. L. Omnès) 32 #809

Vašakmadze, T. S.

Multi-point linear boundary-value problems. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 35 (1964), 29-36. (M. Ráb) 29 #3711

On the numerical solution of boundary-value problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 623-637. (P. Henrici) 31 #1774

A generalized finite-difference method. (Russian) *Differencial'nye Uravnenija* 2 (1966), 614-618. (G. Biriuk) 33 #6842

On the numerical solution of boundary value problems. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 48 (1967), 519-524. (Walter Gautschi) 36 #6158

Certain optimal algorithms. (Russian. Georgian summary) *Thbilis. Sahelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 1 (1969), 7-16. (T. Čanturija) 43 #7081

Vaščenko, V. P.

Set-theoretic approach to functional divisibility. (Russian) *Diskret. Analiz No.* 10 (1967), 9-22. (G. Asser) 36 #4995

Vasconcelos, Wolmer V.

On local and stable cancellation. *An. Acad. Brasil. Ci.* 37 (1965), 389-393. (G. Azumaya) 35 #5440

R-sequences and the homology of Macaulay rings. *An. Acad. Brasil. Ci.* 38 (1966), 249-252. (H. Bass) 34 #7558

Extensions of Macaulay rings. *An. Acad. Brasil. Ci.* 39 (1967), 211-214. (R. E. MacRae) 37 #5203

Ideals generated by *R*-sequences. *J. Algebra* 6 (1967), 309-316. (R. E. MacRae) 35 #4209

Ideals and cancellation. *Math. Z.* 102 (1967), 353-355. (Robert Gilmer) 36 #3770

A note on normality and the module of differentials. *Math. Z.* 105 (1968), 291-293. (P. Abellanas) 37 #2750

(with Levin, Gerson) Homological dimensions and Macaulay rings. *Pacific J. Math.* 25 (1968), 315-323. (J. L. Fisher) 37 #6275

Reflexive modules over Gorenstein rings. *Proc. Amer. Math. Soc.* 19 (1968), 1349-1355. (S. Greco) 38 #5762

On finitely generated flat modules. II. *An. Acad. Brasil. Ci.* 41 (1969), 503-504. (U. Stammbach) 42 #250

Derivations of commutative noetherian rings. *Math. Z.* 112 (1969), 229-233. (W. Heinzer) 40 #7247

On projective modules of finite rank. *Proc. Amer. Math. Soc.* 22 (1969), 430-433. (B. L. Osofsky) 39 #4134

On finitely generated flat modules. *Trans. Amer. Math. Soc.* 138 (1969), 505-512. (U. Stammbach) 39 #199

Quasi-normal rings. *Illinois J. Math.* 14 (1970), 268-273. (R. M. Fossum) 41 #1780

Simple flat extensions. *J. Algebra* 16 (1970), 105-107. (R. E. MacRae) 42 #252

On commutative endomorphism rings. *Pacific J. Math.* 35 (1970), 795-798. (J. C. Fogarty) 43 #4812

Injective endomorphisms of finitely generated modules. *Proc. Amer. Math. Soc.* 25 (1970), 900-901. (R. E. MacRae) 41 #3460

Flat modules over commutative noetherian rings. *Trans. Amer. Math. Soc.* 152 (1970), 137-143. (E. A. Walker) 42 # 251

Annihilators of modules with a finite free resolution. *Proc. Amer. Math. Soc.* 29 (1971), 440-442. (K. R. Mount) 43 #6198

Vasconi, Amina

Sull'integrazione delle funzioni quasi periodiche secondo Stepanoff, negli spazi di Clarkson. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 95 (1961), 1024-1029. (S. Cinquini) 35 #1749

Vasenin, V. V.

On the equi-affine theory of a non-holonomic surface. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 168 (1963), 80-96. (M. Decuyper) 30 #522

On the existence of solutions of a system of exterior differential equations. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 774-777. (A. Urban) 29 #5181

The submanifolds Ψ_2 of a nonholonomic surface. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 88-92. (L. Tamássy) 36 #3257

(with Ščerbakov, R. N.) Systems of quadratic exterior differential equations. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 491-496. (A. Haimovici) 44 # 4352

Vašenko-Zaharčenko, M. E.

(See Gracianskaja, L. N., 32 # 30)

Vaserman, L. M. See Vasermans, L.

Vasermans, L.

(with Ļepins, A.) Generalized Bernšteĭn conditions for systems of ordinary differential equations. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 4 *(Russian), pp.* 233-245. *Izdat. "Zinatne", Riga,* 1968. (A. Pelczar) 39 #7207

(with Ļepins, A.) Generalized Bernšteĭn conditions for systems of ordinary differential equations with a singularity at the end points of the interval. (Russian. Latvian and English summaries) *Latvian Math. Yearbook,* 6 *(Russian), pp.* 23-29. *(loose errata) Izdat. "Zinatne", Riga,* 1969. (A. Pelczar) 41 #5748

(with Ļepins, A.) Generalized Bernšteĭn conditions for nonlinear systems of ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1107-1113. (A. Pelczar) 40 #1651

Vaseršteĭn, L. N.

Groups having the property *T*. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 86. (L. Dornhoff) 37 #4200

Subgroups of finite index of a spin group of rank greater than or equal to 2. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 178-184. (I. D. Macdonald) 37 #1475

The congruence problem for the unitary group of rank greater than or equal to z. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 362-367. (I. D. Macdonald) 37 #5301

The congruence problem for the classical groups. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 3, 88-89. (G. Pic) 41 #1894

Stabilization in algebraic *K*-theory. *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 2, 85-86 *(Russian); translated as Functional Anal. Appl.* 3 (1969), *no.* 2, 152-154. (H. Bass) 42 #1910

On the stabilization of the general linear group over a ring. *Mat. Sb. (N.S.)* 79(121) (1969), 405-424 *(Russian); translated as Math. USSR-Sb.* 8 (1969), 383-400. (H. Bass) 42 #1911

K_1-theory and the congruence problem. (Russian) *Mat. Zametki* 5 (1969), 233-244. (W. T. van Est) 40 #210; erratum, 42 p. 1823

(with Mihalev, A. V.) The normal subgroups of the orthogonal group over a ring with involution. (Russian) *Algebra i Logika* 9 (1970), 629-632. (A. N. Andrianov) 44 #2844

Stabilization of unitary and orthogonal groups over a ring with involution. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 328-351. (I. D. Macdonald) 42 #4617

The stable range of rings and the dimension of topological spaces. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 2, 17- 27. (K. Sieklucki) 44 #1701

Vashakidze, I. Sh. See Vašakidze, I. Š.

Vasić, Petar M.

(See Selected chapters from mathematics, 29 #5701)

Équation fonctionnelle d'un certain type de déterminants. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 65-70 (1963). (L. Carlitz) 30 #2254

(with Mitrinović, D. S.; Prešić, S. B.) Sur une équation fonctionnelle du second degré. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 57-60. (B. Schweizer) 30 #4086

(with Mitrinović, D. S.; Prešić, S. B.) Sur deux équations fonctionnelles cycliques non linéaires. *Bull. Soc. Math. Phys. Serbie* 15 (1963), 3-6. (B. Schweizer) 32 #6093

Sur un système d'équations fonctionnelles. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 18 (1963), 229-233. (R. A. Rosenbaum) 30 #1333

Une équation fonctionnelle homogène du second degré. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 35-40. (L. Carlitz) 30 #2255

(with Mitrinović, D. S.) Compléments au traité de Kamke. X. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 61-68. (M. Bertolino) 30 #2178

(with Mitrinović, Dragoslav S.) Quelques équations fonctionnelles cycliques non linéaires à propriétés curieuses. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 105-114. (Editors) 30 #4085

Équation fonctionnelle du second ordre dont la solution générale dans le domaine de variables complexes peut être déterminée. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 115-121 (1963), 13-16. (B. Schweizer) 33 #2989

(with Mitrinović, D. S.) On a cyclic homogeneous equation of second degree. (Serbo-Croatian. French summary) *Mat. Vesnik (N.S.)* 1(16) (1964), 1-7. (S. B. Prešić) 31 #1487

(with Mitrinović, D. S.) Compléments au traité de Kamke. XI. *Mat. Vesnik* 1(16) (1964), 181-185. (M. Bertolino) 33 #326

(with Mitrinović, Dragoslav S.) Équations fonctionnelles linéaires généralisées. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 63-76. (R. A. Rosenbaum) 30 #4087

On certain quadratic functional equations. (Serbo-Croatian. French summary) *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 131 (1964), 55 *pp.* (S. Kurepa) 33 #4516

} Sur une classe d'équations fonctionnelles linéaires. *C. R. Acad. Sci. Paris* 260 (1965), 5666-5667. (J. Aczél) 31 #1489

(with Janić, R. R.; Đorđević, R. Ž.) Sur les équations fonctionnelles linéaires paracycliques de première espèce. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 132-142 (1965), 39-50. (J. Aczél) 32 #4422

* (with Mitrinović, D. S.; Đorđević, R. Ž.; Janić, R. R.) Geometrijske nejednakosti. (Serbo-Croatian) [Geometric inequalities] Manual for Secondary School Competition in Mathematics, II. Matematička Biblioteka, No. 31. *Zavod za Izdavanje Udžbenika SRS, Belgrade,* 1966. 116 *pp.* (R. P. Boas, Jr.) 41 #7536

Sur une équation fonctionnelle de J. K. Jong. *Mat. Vesnik* 3(18) (1966), 271-274. (J. Aczél) 34 #8025

(with Mitrinović, D. S.) Une classe d'inégalités. *Mathematica (Cluj)* 8(31) (1966), 305-308. (J. V. Ryff) 36 #334

(with Đoković, D. Ž.; Đorđević, R. Ž.) On a class of functional equations. *Publ. Inst. Math. (Beograd) (N.S.)* 6(20) (1966), 65-76. (J. Aczél) 34 #4738

(with Mitrinović, D. S.) Nouvelles inégalités pour les moyennes d'ordre arbitraire. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 159-170 (1966), 1-8. (E. F. Beckenbach) 34 #1470

(with Mitrinović, D. S.) Une classe d'inégalités où interviennent les moyennes d'ordre arbitraire. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 159-170 (1966), 9-14. (E. F. Beckenbach) 34 #1471

(with Đorđević, R. Ž.) A class of functional equations. (Serbo-Croatian. French summary) *Mat. Vesnik* 4(19) (1967), 33-38. (S. Kurepa) 35 #7027

(with Janić, R. R.) Sur une équation fonctionnelle où interviennent les déterminants. *Mat. Vesnik* 4(19) (1967), 325-328. (S. B. Prešić) 37 #1831

(with Mitrinović, D. S.) Compléments au traité de Kamke. XII. Des critères d'intégrabilité de l'équation différentielle de Riccati. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 175-179 (1967), 15-21. (M. Bertolino) 36 #447

(with Mitrinović, D. S.) Propriétés d'un rapport où interviennent les moyennes généralisées. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 29-33. (Z. Daróczy) 36 #6567

(with Mitrinović, D. S.) Monotonicity of the ratio of two means. (Croatian. English summary) *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 35-38. (D. Ž. Djoković) 37 #359

Résolution d'une classe d'équations fonctionnelles linéaires. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 53-60. (O. Em. Gheorghiu) 36 #1861

(with Živanović, Žarko) Über eine Ungleichung die sich auf regelmässige Polygone bezieht. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 67-68. (Z. Daróczy) 36 #7024

(with Janić, Radovan R.) Sur une équation fonctionnelle lineaire. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 200-209 (1967), 21-24. (O. Em. Gheorghiu) 37 #5560

Les inégalites pour les fonctions convexes d'ordre *n*. *Mat. Vesnik* 5(20) (1968), 327-331. (John W. Green) 39 #2926

Sur une inégalité de M. Petrović. *Mat. Vesnik* 5(20) (1968), 473-478. (A. E. Danese) 39 #4343

(with Janić, R. R.) Sur une équation fonctionnelle de *k*-tième ordre. *Publ. Inst. Math. (Beograd) (N.S.)* 8(22) (1968), 124-129. (Editors) 40 #1728

(with Mitrinović, D. S.) On a quadratic functional equation. (Serbo-Croatian. French summary) *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 1-9. (Editors) 37 #6636

(with Draglia, P.) Équations fonctionnelles cycliques linéaires non homogènes. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 11-16. (Editors) 37 #6637

(with Mitrinović, D. S.) Généralisation d'un procédé fournissant des inégalités du type de Rado. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 27-30. (Editors) 37 #5342d

(with Mitrinović, D. S.) Inégalités du type de Rado concernan des fonctions symétriques. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 31-34. (Editors) 37 #5342

(with Mitrinović, D. S.) Généralisation d'une inégalité de Henrici. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 35-38. (Editors) 37 #5342f

(with Mitrinović, D. S.) Inégalités pour les fonctions symétriques élémentaires. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 39-42. (Editors) 37 #5342g

(with Mitrinović, D. S.) Complements to the treatise of Kamke. XIII. Criteria for the integrability of the Riccati equation. (Serbo-Croatian. French summary) *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 43-48. (Editors) 38 #358

Some functional equations. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 230-241 (1968), 57-60. (M. Hosszú) 39 #7310

(with Mitrinović, D. S.) Une inégalité générale relative aux moyennes d'ordre arbitraire. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 210-228 (1968), 81-85. (Editors) 37 #5342

* (with Bottema, O.; Đorđević, R. Ž.; Janić, R. R.; Mitrinović, D. S.) Geometric inequalities. *Wolters-Noordhoff Publishing, Groningen,* 1969. 151 *pp.* (R. P. Boas, Jr.) 41 #7537

* (with Mitrinović, D. S.) Uvodenje mladih u naučni rad. V: Sredine. (Serbo-Croatian) [Introduction of youth to scientific work. V: Means] Matematička Biblioteka, 40. *Zavod za Izdavanje Udžbenika S. R. Srbije, Belgrade,* 1969. 122 *pp.* (R. P. Boas, Jr.) 43 #449

(Adamović, D. D.) Sur un système infini d'inégalités fonctionnelles. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 107-114. (A. E. Danese) 39 #6802

(with Mitrinović, Dragoslav S.) An integral inequality ascribed to Wirtinger, and its variations and generalizations. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 247-273 (1969), 157-170. (A. Lupaş) 41 #1957

(with Janić, Radovan R.) Sur quelques équations fonctionnelles du type de Pexider. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 33-45. (J. Aczél) 41 #732

(with Janić, Radovan R.) Généralisation d'une équation fonctionnelle. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 47-52. (D. Ž. Đoković) 41 #8861

Some inequalities for the triangle. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 121-123. (A. Dinghas) 42 #964

(See also Mitrinović, D. S., 43 #448 and 43 #4984)

(with Janić, Radovan R.) On an inequality of N. Levinson. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 155-157. (H. Kober) 43 #6381

(The sign } indicates an entry in the supplement.)

(with Janić, Radovan R.) On some functional equations. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 330-337 (1970), 55-62. (R. A. Rosenbaum) 44 #3045

On a functional equation. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 338-352 (1971), 1-4. (R. A. Rosenbaum) 44 #3046

(with Janić, Radovan R.; Kečkic, Jovan D.) A complementary triangle inequality. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 338-352 (1971), 77-81. (S. Watanabe) 44 #2911

Vašíček, Oldřich

On a special queue discipline. (Czech. Russian and English summaries) *Apl. Mat.* 10 (1965), 59-71. (Author's summary) 32 #515

A note on the waiting time in queueing systems. (Czech. Russian and English summaries) *Apl. Mat.* 10 (1965), 423-427. (Author's summary) 34 #5179

Vasilach, Serge. See Vasilache, Sergiu.

Vasilache, Sergiu

Algebraic structures of algebraic format operations. Chaps. I, II, III. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 353-390. (H. Gross) 31 #1270

Algebraic structures of algebraic formal operations. Chap. IV. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 543-564. (H. Gross) 31 #1271

Algebraic structures of algebraic formal operations. II. Applications. Chap. I. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 279-301. (H. Gross) 31 #1272

Algebraic structure of formal algebraic operations. Part A II-A. Applications. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 433-453. (Editors) 32 #119

Algèbres de composition d'opérateurs intégro-différentiels à coefficients noyaux-distributions. *C. R. Acad. Sci. Paris* 261 (1965), 3019-3021. (T. W. Mullikin) 33 #3140a

Algebraic structures of algebraic formal operations. Chap. V. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 529-546. (W. S. Martindale, III) 34 #5866

Algèbres de composition d'opérateurs intégro-distributions. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A170-A173; *errata, ibid.* 262 (1966), A1137. (T. W. Mullikin) 33 #3140b

Produit de composition dans des produits tensoriels. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A100-A103. (S. E. Dickson) 35 #220

Produit de composition dans des produits tensoriels. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A179-A182. (S. E. Dickson) 35 #828

(with Kaup, Ludger) Produit de composition dans des classes de cohomologie analytique. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A280-A282. (H. B. Laufer) 37 #6486

Ensembles bornés dans les modules topologiques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A681-A683. (R. Arens) 41 #2393

Sur une classe d'espaces de distributions. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A847-A849. (G. I. Gaudry) 40 #4759

(See also Gel'fand, I. M.; Graev, M. I.; Vilenkin, N. Ja., 40 #6259)

Sur une classe d'espaces de distributions. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 745-760. (P. Schapira) 43 #3800

Sur la résolution de certaines équations intégrodifférentielles du type parabolique. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1013-A1014. (M. Jodeit, Jr.) 43 #7896

Sur l'équation du type parabolique $\lambda^2\ \delta^2 u/\delta x^2 - \mu^2\ \delta u/\delta y = f(x, y)$. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A533-A536. (S. I. Rosencrans) 43 #7783

Vasilak, Serdžiu. See Vasilache, Sergiu.

Vasilake, Seržiu. See Vasilache, Sergiu.

Valilenko, A. P.

(with Lomakovič, A. M.) The solution of Volterra type integral equations by a method of Runge-Kutta form. (Russian) *Differencial'nye Uravnenija* 4 (1968), 2094-2102. (K. Frankowski) 39 #1144

Vasilenko. Ju. V.

Optimal piecewise-linear approximation of functions of several variagles. *Avtomatika* 1969, *no.* 2, 28-36 *(Ukrainian); translated as Soviet Automat. Control — Ukrain. J. Automat.* 1969, *no.* 2, 18-25. (R. J. Rivlin) 44 #7708

Vasilenko, V. P.

(with Janiševskiĭ, A. P.) The method of small parameter in the theory of gyrocompasses. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 70-75. (D. P. Fašković) 43 #7111

Vasilescu, Florian-Horia

Spectral algebras of a generalized scalar operator. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1241-1243. (P. Civin) 35 #5969

On an asymptotic behaviour of operators. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 353-358. (G. Maltese) 36 #2001

Spectral distance of two operators. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 733-736. (J. R. Ringrose) 36 #5749

On a class of scalar generalized operators. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 865-867. (K. K. Oberai) 36 #4381

Some properties of the commutator of two operators. *J. Math. Anal. Appl.* 23 (1968), 440-446. (K. K. Oberai) 37 #4656

A relativization of quasi-nilpotence in Banach algebras. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 939-945. (K.-H. Förster (Zbl 155, 459)) 40 #3311

Restrictions and quotients of strongly residually decomposable operators. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 851-857. (K. K. Oberai) 40 #7860

Residually decomposable operators in Banach spaces. *Tôhoku Math. J.* (2) 21 (1969), 509-522. (H. Langer) 43 #965

(with Foiaş, C.) On the spectral theory of commutators. *J. Math. Anal. Appl.* 31 (1970), 473-486. (E. Berkson) 44 #7331

Analytic functions and some residual spectral properties. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 435-451. (J. D. Gray) 41 #7467

Residual properties for closed operators on Fréchet spaces. *Illinois J. Math.* 15 (1971), 377-386. (K. K. Oberai) 44 #2066

Remarks on a functional calculus. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 121-125. (P. Civin) 43 #6723

Radical d'une algèbre de Lie de dimension infinie. *C. R. Acad. Sci. Paris Sér. A - B* 274 (1972), A536-A538. (A. A. Sagle) 44 #6781

Vasil'ev, A. I.

A minimization property for spaces normed over semifields. (Russian) *Mat. Zametki* 5 (1969), 297-304. (John Ellis) 39 #4641

Vasil'ev, A. Ja.

On necessary and sufficient conditions for optimality of control systems. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1404-1413. (L. W. Neustadt) 30 #3800

Vasil'ev, A. M.

Affine connections in homogeneous spaces. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II. pp.* 182-186. *Izdat. "Nauka", Leningrad,* 1964. (RŽMat 1966 #4 A365) 36 #4477

Families of linear elements which are bent by completely geodesic families. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 28-35. (M. Pinl) 29 #6428

(with Laptev, G. F.) Sergeĭ Pavlovič Finikov. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 4 (118), 155-162. (1 *plate*) (Editors) 31 #1172b

(with Laptev, G. F.) Sergeĭ Pavlovič Finikov. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 3, 92-96. (Editors) 31 #1172a

A characteristic of the generalized free field. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 781-783 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 543-544. (H. Araki) 33 #3650

On the uniqueness of the Wightman functional. *Ž. Èksper. Teoret. Fiz.* 49 (1965), 1103-1108 *(Russian. English summary); translated as Soviet Physics JETP* 22 (1966), 769-772. (H. Araki) 34 #5433

Systems of three partial differential equations of the first order with three unknown functions and two independent variables (local theory). (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 457-480. (A. Haimovici) 34 #1682

Differential algebra as a tool of differential geometry. (Russian) *Trudy Geometr. Sem.* 1 (1966), 33-61. (J. Rausen) 34 #5815

On the possibility of a dynamical definition of the theory in the Wightman axiomatic scheme. *Ž. Èksper. Teoret. Fiz.* 50 (1966), 694-708 *(Russian. English summary); translated as Soviet Physics JETP* 23 (1966), 461-469. (H. Araki) 34 #5434

(with Efimov, N. V.; Raševskiĭ, P. K.) Research in differential geometry at Moscow University in the Soviet period. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 5, 12-23. (M. Kucharzewski) 36 #5825

Involutory differential algebras. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 757-772. (O. Kowalski) 39 #7637

La structure algébrique de la représentation et le problème de la symétrie pour une classe de fonctionelles de Wightman. (English summary) *Comm. Math. Phys.* 13 (1969), 81-101. (H. Wakita) 40 #2303

Sur la construction asymptotique et l'interprétation physique d'une théorie avec dégénérescence du vide. (English summary) *Comm. Math. Phys.* 13 (1969), 102-118. (H. Wakita) 40 #2304

On the algebraic foundations of differential geometry. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 4 (148), 189-190. (O. Kowalski) 42 #3819

Vasil'ev, A. V.

(with Gonorovskiĭ, I. S.; Fel'dman, L. D.) The spectra of certain nonintegrable functions. *Radiotehn. i Elektron.* 15 (1970), 732-740 *(Russian); translated as Radio Engrg. Electron. Phys.* 1970, 618-625. (M. Dostál) 44 #3779

Vasil'ev, B. A.

A solution of the stationary problem of the theory of heat conductivity for wedge-shaped bodies with a boundary condition of the third kind. (Russian) *Differencial'nye Uravnenija* 6 (1970), 531-537. (A. D. Solomon) 43 #7796

Vasil'ev, E. N.

(with Materikova, L. B.) Excitation of dielectric bodies of revolution. *Ž. Tehn. Fiz.* 35 (1965), 1817-1824 *(Russian); translated as Soviet Physics Tech. Phys.* 10 (1966), 1401-1406. (From the authors' summary) 32 #6868

On a function encountered in the theory of diffraction. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5 841-851. (Walter Gautschi) 33 #1497

Vasil'ev, F. P.

The method of finite differences for solving a one-phase Stefan problem for a quasi-linear equation. (Russian) *Dokl. Akad. Nauk SSSR* 152 (1963), 783-786. (E. L. Albasiny) 30 #5501

(with Uspenskiĭ, A. B.) The finite-difference method for solving a two-phase Stefan problem for a quasi-linear equation. (Russian) *Dokl. Akad. Nauk SSSR* 152 (1963), 1034-1037. (K. Rektorys) 31 #898

On the method of finite differences for solving a one-phase Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 861-873. (K. Rektorys) 31 #897

(with Uspenskiĭ, A. B.) A difference method for solving a two-phase Stefan problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 874-886. (E. L. Albasiny) 31 #1784

A difference method of solving problems of Stefan type for a quasi-linear parabolic equation with discontinuous coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1280-1283. (W. T. Kyner) 29 #5393

(with Budak, B. M.; Uspenskiĭ, A. B.) Difference methods for solving certain boundary value problems of Stefan type. (Russian) *Numer. Methods in Gas Dynamics (Russian)*, pp.139-183. *Izdat. Moskov. Univ., Moscow*, 1965. (E. H. Bareiss) 34 #7126

A variant of the method of straight lines for the solution of Stefan type problems. (Russian) *Computing Methods and Programming, VIII (Russian)*, pp. 139-164. *Izdat. Moskov. Univ., Moscow*, 1967. (Author's introduction) 44 #3516

The method of straight lines for the solution of a single-phase problem of Stefan type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 64-78. (E. H. Bareiss) 37 #3211

The existence of a solution of a certain optimal Stefan problem. (Russian) *Computing Methods and Programming, XII (Russian)*, pp. 110-114. *Izdat. Moskov. Univ., Moscow*, 1969. (A. Friedman) 44 #3015

Optimality conditions for certain classes of systems which are not solved with respect to the derivative. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 1267-1270. (J. M. Skowroński) 40 #3404

(with Ivanov, R. P.) Certain approximate methods of solving time-optimal problems in Banach spaces in the presence of phase constraints. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 526-529. (H. O. Fattorini) 43 #5380

Conditions for the existence of a saddle point in determinate integro-differential games with lag in the presence of parameters. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 15-25. (J. M. Skowroński) 42 #5655

(with Ivanov, R. P.) The approximate solution of the time-optimal problem with lag. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1124-1140. (A. Halanay) 44 #2320

(with Ivanov, R. P.) An approximate solution of the time-optimal problem in Banach spaces with constraints on the phase coordinates. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 328-347. (H. O. Fattorini) 44 #7412

Vasil'ev, Ju. L.

Irreducible disjunctive normal forms for certain classes of truth functions. (Russian) *Dokl. Akad. Nauk SSSR* 142 (1962), 263-265. (M. Greendlinger) 33 #1226

On ungrouped, close-packed codes. (Russian) *Problemy Kibernet. No.* 8 (1962), 337-339. (S. Kotz) 29 #5661

Comparison of the complexity of terminal and minimal disjunctive normal forms. (Russian) *Problemy Kibernet. No.* 10 (1963), 5-61. (E. Mendelson) 29 #5717

On the number of terminal and minimal disjunctive normal forms. (Russian) *Diskret. Analiz. No.* 2 (1964), 3-9. (E. M. Fels) 29 #2173

On the "superposition" of reduced disjunctive normal forms. (Russian) *Problemy Kibernet. No.* 12 (1964), 239-242. (E. Mendelson) 30 #4675

Difficulties of minimization of Boolean functions on the basis of universal approaches. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 13-16. (E. M. Fels) 34 #4060

Vector fields on the set of vertices of the *n*-dimensional unit cube. (Russian) *Diskret. Analiz No.* 11 (1967), 21-59. (E. J. F. Primrose) 37 #3553

Vasil'ev, Ju. P.

(with Fomin, A. N.) Groups which are close to primitive groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5, *tetrad'* 3, 35-39 (1966). (K. Drbohlav) 34 #4349

(with Fomin, A. N.) On the problem of representability of the elements of a set. (Russian) *Problemy Kibernet. No.* 19 (1967), 245-247. (Đ. Kurepa) 37 #5319

(with Fomin, A. N.) The Cayley tables of finite groups (loops). (Russian) *Sverdlovsk. Gos. Ped. Inst Učen. Zap.* 78 (1969), 37-39. (L. Procházka) 44 #6892

Vasil'ev, N. B.

*C**-algebras with finite dimensional irreducible representations. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 1 (127), 135-154. (J. M. G. Fell) 34 #1871

Correlation equations for a stationary measure of a certain Markov chain. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 536-540. (C. Reischer) 44 #3393

Vasil'ev, N. I.

Certain boundary value problems for a system of two first order differential equations. I. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 5 (Russian)*, pp. 11-24. *Izdat. "Zinatne", Riga*, 1969. (C. Avramescu) 41 #5696

Certain boundary value problems for a system of two first order differential equations. II. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 6 (Russian)*, pp. 31-39. *(loose errata) Izdat. "Zinatne", Riga*, 1969. (C. Avramescu) 41 #5697

(with Ļepins, A.) Necessary and sufficient conditions for th existence of a solution of a boundary value problem for a system of two first order differential equations. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 7 (Russian)*, pp. 25-34. *Izdat. "Zinatne", Riga*, 1970. (K. Schmitt) 42 #7982

Necessary and sufficient conditions for the existence of a solution of certain boundary value problems for a system of two first order differential equations. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 8 (Russian)*, pp. 11-23. *Izdat. "Zinatne", Riga*, 1970. (C. Avramescu) 42 #7983

Vasil'ev, O. V.

On the optimal control processes in discrete systems. (Russian) *Communications of Works of the Irkutsk State Univ. Comput. Center, No. I (Russian)*, pp. 12-26. *Irkutsk. Gos. Univ. Vyčisl. Centr, Irkutsk*, 1966. (G. M. Tenengol'c) 41 #9628

Computational aspects of the solution of a certain class of problems in the theory of optimal processes. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian)*, pp. 41-45. *Habarovsk. Gos. Ped. Inst., Khabarovsk*, 1967. (C. Kallina) 41 #3155

(with Kirillova, F. M.) Optimal processes in two-parameter discrete systems. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 17-19. (W. M. Wonham) 35 #7718

The gradient method for the solution of a class of optimal control problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 52-61. (R. Conti) 35 #2670

On the question of the numerical solution of the two-point boundary value problem for a system of ordinary differential equations. (Russian) *Trudy Irkutsk, Gos. Univ.* 26 (1968), 247-253. (I. Šelihova (RŽMat 1969 #5 B866)) 42 #4027

On the question of the numerical solution of a terminal control problem. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 304-317. (B. Poljak (RŽMat 1969 #10 B402)) 42 #3993

Vasil'ev, P. I.

Stationary flux with limited aftereffect. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 123-138. (W. Hoeffding) 36 #221

The Palm-Hinčin limit functions. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 70 (1964), 52-61. (M. R. Leadbetter) 32 #8404

(with Kovalenko, I. N.) A remark on stationary streams of homogeneous events. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 374-375. (E. Reich) 29 #1665

On the question of ordinariness of a stationary stream. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 44-48. (I. Cuculescu) 35 #2363

A class of stationary streams. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 49-55. (I. Cuculescu) 35 #2364

The general form of a Palm stream. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 91 (1967), 30-38. (I. Cuculescu) 41 #9336

Vasil'ev, P. P.

(with Golenko, D. I.; Klimenko, S. E.) The determination of the volume of orders of a trade organization. (Russian) *Ékonom. i Mat. Metody* 6 (1970), 433-442. (L. A. Petrosyan) 44 #1409

Vasil'ev, R. K.

The convergence of positive linear operators and of singular integrals in certain partially ordered spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 6 (97), 35-45. (H. Schwetlick) 44 #828

Converging sequences of linear operators in partially ordered spaces. (Russian) *Mat. Zametki* 8 (1970), 475-486. (J. Albrycht) 43 #2543

Vasil'ev, V. A.

Structure of constructions in formalized languages. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 727-732. (A. P. Ershov) 35 #1417

The construction of a set of modes of values in algorithmic languages. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1247-1268. (I. Meznik) 43 #8474

Vasil'ev, V. G.

(with Lavrent'ev, M. M.) Formulation of certain incorrect problems of mathematical physics. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 559-576. (Oldřich Horáček) 33 #7715 (with Bojarincev, Ju. E.) On the theory of the convergence of approximate solutions of an operator equation. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 1027-1028. (R. C. Gilbert) 38 #553

* (with Lavrent'ev, M. M.; Romanov, V. G.) Многомерные обратные задачи для дифференциальных уравнений. (Russian) [Multidimensional inverse problems for differential equations] *Izdat. "Nauka" Sibirsk. Otdel, Novosibirsk,* 1969. 67 pp. (P. Ungar) 43 #3599

(with Bojarincev, Ju. E.) The convergence of a universal algorithm for a selfadjoint equation in Hilbert space. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 706-709. (J. W. Schmidt) 39 #6100

(with Bojarincev, Ju. E.) The stability of the method of quasireversibility in the solution of ill posed evolution equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 951-952. (G. Geymonat) 40 #5159

* (with Lavrent'ev, M. M.; Romanov, V. G.) Multidimensional inverse problems for differential equations. Lecture Notes in Mathematics, Vol. 167. *Springer-Verlag, Berlin-New York,* 1970. v + 59 pp. (Editors) 43 #3600

(with Marčuk, G. I.) The approximate solution of operator equations of the first kind. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 773-775. (E. L. Albasiny) 43 #5328

asil'ev, V. I.

(with Reuc'kiĭ, V. Ju.) Effect of previous history of input signal on the recognition of moving or variable objects. *Avtomatika* 1968, *no.* 5, 18-29 *(Ukrainian); translated as Soviet Automat. Control* 1968, *no.* 5, 13-22 (1969). (R. L. Kashyap) 43 #7273

asil'ev, V. V.

On the conditions of A. I. Nekrasov in the theory of linear integro-differential equations of a certain class. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 6 (37), 29-38. (V. Lakshmikantham) 34 #6477

Iterated kernels and resolvents for a class of linear integro-differential equations of Fredholm type. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 46-52. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (O. E. Stanaitis) 41 #774

Solution of a certain class of linear integro-differential equations of Volterra type. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 3-18. (L. Krivošein) 42 #4989

asil'eva, Adelaide B.

(with Bagirova, N. H.) The asymptotics of the solutions of differential equations with small parameter in the higher derivatives, definable by various supplementary conditions. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1962, *no.* 4, 3-17. (J. F. Heyda) 36 #4083

(with Rodionov, A. M.) Application of the perturbation method to an equation with retarded argument in the case of a small lag. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 1 (1962), 20-27. (R. D. Driver) 31 #1430

Equations of neutral type with a small time lag. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 2 (1963), 50-67. (R. F. Datko) 30 #3282

Asymptotic behavior of solutions of differential equations with a deviating argument in the case of small time lag. (Russian. English and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 223-226. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (R. Reissig) 32 #7843

(with Zimin, A. B.) Asymptotic behaviour of certain classes of differential equations with a small parameter multiplying the highest derivative. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Mah.* 1964, *no.* 4, 21-29. (C. S. Coleman) 29 #2489

(with Butuzov, V. F.) Asymptotic behaviour of the solution of an integro-differential equation with a small parameter multiplying the derivative. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *no.* 4, *suppl.,* 183-191. (V. Lakshmikantham) 30 #2308

Boundary layer phenomenon and vibration processes in equations of neutral type with a small delay. (Russian. German and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 201-205. (R. F. Datko) 34 #462

On integral perturbations in differential equations with high frequency oscillations of the solutions. (Russian) *Differencial'nye Uravnenija* 1 (1965), 717-730. (M. Ráb) 33 #3068

(with Butuzov, V. F.) Certain problems on eigenvalues for integro-differential equations with a small parameter coefficient for the higher derivative. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1190-1203. (V. Lakshmikantham) 35 #697

Methods of investigation of oscillation processes described by equations of neutral type with a small retardation. (Russian. Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 3-4, 47-52. (S. P. Hastings) 37 #6571

(with Imanaliev, M.) Asymptotics of the solution of a Cauchy problem for an integro-differential equation with a small parameter in front of the derivative. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 61-69. (J. F. Heyda) 33 #532

(with Bagirova, N. H.; Imanaliev, M. I.) A question on the asymptotic solution of an optimal control problem. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1895-1902. (P. Sagirow) 36 #4406

The correspondence between certain properties of the solutions of linear difference systems and systems of ordinary linear differential equations. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 5 (1967), 21-44. (S. Kurepa) 37 #3229

On the question of asymptotic behavior of solutions of equations of neutral type with small retardation. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 154-163. (J. K. Hale) 36 #6742

(with Volosov, V. M.) Works of A. N. Tihonov and his students in differential equations containing a small parameter. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 149-168. 34 #5626

Asymptotic methods in the theory of differential equations with a small parameter multiplying the higher derivative. (Russian) *Fifth Math. Summer School (Uzhgorod, 1967): The Theory of Ordinary Differential Equations and Nonlinear Oscillations (Russian), pp.* 65-157. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. (V. Rozov (RŽMat 1969 #8 B278)) 41 #8777

Investigation of the asymptotic properties of a differential equation encountered in certain kinetics problems. (Russian) *Differencial'nye Uravnenija* 4 (1968), 397-408. (K. W. Chang) 37 #5486

(with Tupčiev, V. A.) Periodic solutions of systems of differential equations with a small parameter at the derivatives, close to discontinuous ones. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 767-770. (G. Maess) 37 #1731

(with Zverkin, A. M.; Kamenskiĭ, G. A.; Myškis, A. D.; Norkin, S. B.; Tihonov, A. N.) Lev Ėrnestovič Ėl'sgol'c. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 2 (140), 193-200. (1 *plate*) (Editors) 36 #4950

Difference systems which are close to differential-difference systems. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 6 (1968), 37-44. (R. F. Datko) 38 #3555

(with Sajasov, Ju. S.) The theory of the quenching of electronic processes in jets of low temperature plasma. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1968, *no.* 1, 26-34. (L. Finkelstein) 44 #548

(with Butuzov, V. F.; Fedorjuk, M. V.) Asymptotic methods in the theory of ordinary differential equations. *Matematičeskiĭ Analiz 1967 (Russian), pp.* 5-73; *translated in Progress in Mathematics, Vol.* 8: *Mathematical Analysis, pp.* 1-82. *Plenum, New York,* 1970. (T. G. Hallam) 44 #562

(with Butuzov, V. F.) Differential and difference systems of equations with a small parameter in the case when the unperturbed (degenerate) system is situated on the spectrum. (Russian) *Differencial'nye Uravnenija* 6 (1970), 650-664. (M. Ráb) 42 #4834

(with Juldašev, Ė.) Linear difference systems with small lag. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2267-2269. (J. Carkovs) 43 #3672

Vasil'eva, L. G.

(with Bahvalov, N. S.) The calculation of integrals of oscillatory functions by interpolation at the Gaussian quadrature nodes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 175-181. (Walter Gautschi) 37 #2437

Vasil'eva, M. V.

Finslerian geometry in invariant presentation. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 38-54. (W. Wrona) 33 #7970

An invariant description of certain Finslerian geometries. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 55-68. (W. Wrona) 33 #7971

Interpretations of Lobačevskiĭ geometry in the synthetic presentation. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 385-417. (1 *foldout*) 33 #624

The connections between the various Finsler geometries, and the bundle of Finsler geometries. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 49-54. (L. Tamássy) 41 #2597

A projective presentation of the focal theory of second order curves. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 407-414. (E. J. F. Primrose) 41 #4364

Higher subgroups of infinite Lie-Cartan groups. (Russian) *Trudy Geometr. Sem.* 2 (1969), 81-93. (O. Kowalski) 41 #1080

Vasil'eva, O. A.

The multiplier problem in l_p for orthogonal series in Haar's system. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 13-18. (J. Albrycht) 37 #686

Vasil'eva, Z. I.

(with Konjaeva, L. V.; Liberman, L. I.) Quadrics in an isotropic space. (Russian) *Kolomen. Ped. Inst. Učen. Zap.* 8 (1964), 45-52 (1965). (E. M. Bruins) 33 #619

Vasilieva, A. B. See Vasil'eva, Adelaide B.

Vasilišin, S. A.

Application of the averaging method to solving mixed boundary value problems for nonlinear hyperbolic equations. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 2, 97-106. (A. Langenbach) 33 #7704

(with Kolomīēc, V. G.) Investigation of oscillations of nonlinear systems with distributed parameters in the case of random perturbations. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 3-10. (J. M. Skowroński) 35 #5007

(with Fodčuk, V. I.) Construction of asymptotic solutions for quasilinear partial differential equations with time lag. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 4, 108-113. (M. Reghiş) 35 #7017

(with Kolonīēć, V. G.) The investigation of monofrequency random oscillations in nonautonomous systems with distributed parameters. (Russian) *Mathematical Physics, No.* 4 (1968) *(Russian), pp.* 12-20. *Naukova Dumka, Kiev,* 1968. (G. Schmidt (Zb. 197, 210)) 43 #1290

(with Kolomīēc′, V. G.) An investigation of the single-frequency oscillations of nonlinear systems with distributed parameters and time lags involving random actions. (Russian) *Mathematical Physics, No.* 6 (1969) *(Russian), pp.* 60-66. *Naukova Dumka, Kiev,* 1969. (K. Schmitt) 41 #8783

Vasiliu, Cireşica

On the Lebesgue decomposition theorem. (Romanian. Russian and English summaries) *Com. Acad. R. P. Romîne* 13 (1965), 863-869. (Author's summary) 30 #4890

Vasiljan, M. A.

The invariant framing of a hyperband. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 50 (1970), 65-70. (M. Decuyper) 44 #4658

Quadratic hyperbands of rank $n-2$ in the projective space P_n. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 50 (1970), 193-197. (M. Decuyper) 44 #4659

Vasil′yev, A. V. See Vasil′ev, A. V.

Vasin, V. V.

Regularization of nonlinear partial differential equations. (Russian) *Differencial′nye Uravnenija* 4 (1968), 2268-2274. (S. Maloň) 40 #1042

Regularization of a numerical differentiation problem. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad′* 2, 29-33. (F. Pecka) 43 #5726

The connection between certain variational methods for the approximate solution of ill posed problems. (Russian) *Mat. Zametki* 7 (1970), 265-272. (Z. Diviš) 41 #9023

Vasiu, A.

(with Orbán, B.) On the projective mapping of a nomogram with two scales on a parabola and a rectilinear one. (Romanian. Russian and English summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 12 (1967), *no.* 1, 25-32. (Authors' summary) 35 #6392

Vasiu, Mircea

On the determination of the matrix associated with the system of magnetohydrodynamic differential equations of a perfect incompressible fluid of infinite electric conductivity. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 7 (1962), *no.* 2, 103-111. (R. Balescu) 30 #5666

Sur l'instabilité magnétohydrodynamique d'un milieu fluide cylindrique totalement ionisé et compressible, à conductivité électrique infinie, entouré par un gaz, dans un champ magnétique appliqué. *Mathematica (Cluj)* 5(28) (1963), 299-319. (E. G. Broadbent) 32 #3423

On the dispersion equation of a viscous fluid with finite electrical conductivity, in uniform rotational motion. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 8 (1963), *no.* 2, 117-131. (N. Tipei) 32 #6844

On the criterion of magnetogravitational instability of a viscous fluid medium with finite electrical conductivity and in uniform rotational motion. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 9 (1964), *no.* 1, 123-138. (N. Tipei) 32 #6845

Sur la déduction de l'équation de dispersion d'un plasma cylindrique à conductivité électrique finie, dans un champ magnétique appliqué et de son propre champ gravifique. *Mathematica (Cluj)* 6(29) (1964), 335-350. (P. L. E. Uslenghi) 33 #974

Vaskan, F. K.

The application of N. N. Bogoljubov's method to certain multifrequency systems. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 4, 31-46 (1968). (M. Bertolino) 39 #5884

A theorem on the reducibility of a multi-frequency nonlinear system in the resonance case. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 1 (7), 232-234. (D. Bobrowski) 41 #595

The reducibility of a multifrequency nonlinear system in the resonance case. (Russian) *Bul. Akad. Stiince RSS Moldoven.* 1969, *no.* 1, 8-16. (E. Leimanis) 43 #2321

The application of summable transformations in the question of reducibility of ordinary differential equations. (Russian) *Prikl. Mat. i Programmirovanie Vyp.* 1 (1969), 9-17. (D. Bainov) 43 #3560

(with Grebenikov, E. A.) The reducibility of multifrequency systems of differential equations with summable series. (Russian) *Differencial′nye Uravnenija* 6 (1970), 403-411. (G. Bojadžiev) 42 #2099

(with Grebenikov, E. A.) The existence of conditional perio solutions of systems of ordinary differential equations with slow and fast variables. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1971, *no.* 1, 3-12, 92. (Š. Schwabik) 44 #7056

Vaškas, P.

On the stratification of complexes of lines. (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 51-59. (A. Urban) 29 #1591

The fibring of line congruences by certain developable surfa (Russian. Lithuanian and French summaries) *Litovsk. Mat. Sb.* 9 (1969), 27-34. (I. Vaisman) 40 #7963

Certain T-pairs of line complexes that are stratifiable by line elements. (Russian. Lithuanian and French summaries) *Litov Mat. Sb.* 9 (1969), 455-462. (I. Vaisman) 41 #7558

Vas′kov, V.

Expression for the spectral function in terms of the values of the amplitude in the physical region. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 577-580 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 386-387. (J. Franklin) 35 #5199

Vaškov′jak, M. A.

Almost circular orbits of artificial Earth satellites. (Russ *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 3, 58-67. (P. Musen) 34 #2325

Vasquez, Alphonse T.

(with Charlap, L. S.) Compact flat Riemannian manifolds. II The cohomology of Z_p-manifolds. *Amer. J. Math.* 87 (1965), 551-56 (L. Auslander) 32 #6491

(with Charlap, L. S.) The cohomology of group extensions. *Trans. Amer. Math. Soc.* 214 (1966), 24-40. (L. Auslander) 35 #5514

(with Kervaire, M.) Simple-connectivity and the Browder-Novikov theorem. *Trans. Amer. Math. Soc.* 126 (1967), 508-513. (E. H. Brown) 34 #8411

On characteristic classes of flat Riemannian manifolds. *Bull. Amer. Math. Soc.* 74 (1968), 715-717. (S. Takizawa) 37 #22

(See also Adams, J. Frank, 40 #2065)

(with Lazarov, C.) The difference construction in K-theory. *Proc. Amer. Math. Soc.* 21 (1969), 315-317. (D. Lehmann) 38 #658

(with Charlap, L. S.) Characteristic classes for modules over groups. I. *Trans. Amer. Math. Soc.* 137 (1969), 533-549. (J. A. Schafer) 42 #3181

Flat Riemannian manifolds. *J. Differential Geometry* 4 (1970), 367-382. (S. Takizawa) 42 #2389

Vassails, Gérard

Sur la conjugaison en optique géométrique. *Cahiers de Phys.* 17 (1962/63), 500-508. (E. W. Marchand) 29 #3108

Vassell, Milton O.

(with Borowitz, Sidney; Percus, Jerome K.) Approximate solution of a finite many-particle system with translational invarian I. *Phys. Rev.* (2) 136 (1964), B1266-B1278. (S. Gartenhaus) 32 #5263

Vassilev, A. M. See Vasil′ev, A. M.

Vassiliou, Ph.

Eine Bemerkung über die von dem Zentralisator bestimmte Abbildung. (Greek summary) *Prakt. Akad. Athēnōn* 42 (1967), 286-289. (R. Schmidt) 38 #246

Vastersavendts, Marie-Louise

Sur les groupes d'homologie de certains espaces fibres. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 50 (1964), 624-636. (F. P. Peterson) 30 #4265

Relations entre opérations cohomologiques de second ordre. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 50 (1964), 943-950. (J. F. Adams) 31 #2723

Vasu, A. C.

A generalisation of Brauer-Rademacher identity. *Math. Student* 33 (1965), 97-101. (L. Carlitz) 32 #7486

On a certain arithmetic function. *Math. Student* 34 (1966), 93-95 (1967). (H. J. Godwin) 36 #6342

Vasudeva, R. B.

(with Wetherill, G. B.; Chen, H.) Sequential estimation of quantal response curves: A new method of estimation. *Biometrika* 53 (1966), 439-454. (D. G. Chapman) 35 #6275

Vasudevan, Ramabhadra

(with Ramakrishnan, Alladi; Srinivasan, S. K.) Some new mathematical features in cascade theory. *J. Math. Anal. Appl.* 11 (1965), 278-289. (G. M. Wing) 32 #968

(with Ranganathan, N. R) Remarks on Dirac spurs and Pfaffians. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 172-178. (J. S. R. Chisholm) 33 #7008

(with Ramakrishnan, Alladi; Srinivasan, S. K.) Multiple product densities. *J. Mathematical and Physical Sci.* 1 (1967), 275-279. (T. V. Avadhani) 40 #959

(with Bellman, R. E.; Kagiwada, H. H.; Kalaba, R. E.) Quasilinearization and the estimation of differential operators f eigenvalues. *Comm. ACM* 11 (1968), 255-256. (R. Nicolovius) 40 #5141 (with Ramakrishnan, Alladi; Ranganathan, N. R.; Chandrasekaran, P. S.) A generalization of the *L*-matrix hierarchy. *J. Math. Anal. Appl.* 23 (1968), 10-14. (Y. Lehrer-Ilamed) 37 #5245

(with Ramakrishnan, Alladi) A hierarchy of idempotent matrices. *Symposia on Theoretical Physics and Mathematics, Vol. 9 (Inst. Math. Sci., Madras, 1968), pp.* 85-88. *Plenum Press, New York,* 1969. (K. J. Le Couteur) 40 #8353

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Ranganathan, N. R.; Santhanam, T. S.) The generalized Clifford algebra and the unitary group. *J. Math. Anal. Appl.* 27 (1969), 164-170. (H. van Dam) 40 #172

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Ranganathan, N. R.; Santhanam, T. S.) Idempotent matrices from a generalized Clifford algebra. *J. Math. Anal. Appl.* 27 (1969), 563-564. (H. van Dam) 40 #173

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.; Ranganathan, N. R.) Kemmer algebra from generalized Clifford elements. *J. Math. Anal. Appl.* 28 (1969), 108-111. (R. L. Ingraham) 40 #2702

(with de Luca. A.; Ricciardi, L. M.) Random matrices and neural networks. *Kybernetik (Berlin)* 6 (1969/70), *Heft* 5, 163-167. (R. M. Cormack) 42 #5367

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.) Representation of para-Fermi rings and generalised Clifford algebra. *J. Math. Anal. Appl.* 31 (1970), 1-5. (R. L. Ingraham) 41 #6479

(with De Luca, A.; Ricciardi, L. M.) Note on relating Pfaffians and Hafnians with determinants and permanents. *J. Mathematical Phys.* 11 (1970), 530-535. (R. A. Brualdi) 41 #3497

(with Ramakrishnan, Alladi) On generalised idempotent matrices. *J. Math. Anal. Appl.* 32 (1970), 414-423. (G. E. Wall) 42 #1843

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.) Algebras derived from polynomial conditions. *J. Math. Anal. Appl.* 35 (1971), 131-134. (A. O. Morris) 43 #3284

(with Ramakrishnan, Alladi; Chandrasekaran, P. S.) Para-Fermi operators and special unitary algebras. *J. Math. Anal. Appl.* 35 (1971), 249-254. (P. Pascual) 43 #4372

asylenko, Yu. V. See Vasilenko, Ju. V.

asyl'yev, V. I. See Vasil'ev, V. Ī.

atel', I. A.

(with Kononenko, A. F.) A certain numerical scheme for the solution of optimal control problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 67-73. (Š. Schwabik) 42 #2645

atollo, V. V.

(with Bol'šakov, I. A.; Latyš, V. G.) Methods for the combined detection and measurement of an unknown number of signals based on the random points theory. *Radiotehn. i Èlektron.* 9 (1964), 563-570 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 457-462. 32 #7323

aughan, David R.

A negative exponential solution for the linear optimal regulator problem. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 717-725. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the author's summary) 40 #2403

A negative exponential solution for the matrix Riccati equation. *IEEE Trans. Automatic Control* AC-14 (1969), 72-75. (Author's summary) 40 #3959

aughan, Herbert E.

(with Gabai, Hyman) Hyperspheres associated with an n-simplex. *Amer. Math. Monthly* 74 (1967), 384-392. (R. Artzy) 35 #849

Cliques and groups. *Math. Gaz.* 52 (1968), 347-350. (Editors) 38 #4595

aughan, J. E.

A modification of Morita's characterization of dimension. *Pacific J. Math.* 20 (1967), 189-196. (David W. Henderson) 34 #5060

(with Wenner, B. R.) Note on a theorem of J. Nagata. *Compositio Math.* 21 (1969), 4-6. (K. Nagami) 39 #4819

Linearly ordered collections and paracompactness. *Proc. Amer. Math. Soc.* 24 (1970), 186-192. (E. P. Rozycki) 40 #6503

Perfect mappings and spaces of countable type. *Canad. J. Math.* 22 (1970), 1208-1210. (E. Michael) 42 #3747

Spaces of countable and point-countable type. *Trans. Amer. Math. Soc.* 151 (1970), 341-351. (C. R. Borges) 42 #1065

(with Tamano, Hisahiro) Paracompactness and elastic spaces. *Proc. Amer. Math. Soc.* 28 (1971), 299-303. (W. M. Fleischman) 42 #8446

aughan, Loy O.

(with Gray, William J.) The almost fixed point property for hereditarily unicoherent continua. *Proc. Amer. Math. Soc.* 27 (1971), 381-386. (J. de Groot) 44 #5934

aughan, Nick

(with Butts, H. S.) On overrings of a domain. *J. Sci. Hiroshima Univ. Ser. A - I Math.* 33 (1969), 95-104. (Robert Gilmer) 39 #6870

Vaughan, R. C.

On a problem of Erdős, Straus and Schinzel. *Mathematika* 17 (1970), 193-198. (W. Ljunggren) 44 #6600

On the representation of numbers as sums of powers of natural numbers. *Proc. London Math. Soc.* (3) 21 (1970), 160-180. (H. Halberstam) 42 #7615

On the addition of sequences of integers. *J. Number Theory* 4 (1972), 1-16. (H. B. Mann) 44 #5291

Vaughan-Lee, M. R.

Generating groups of nilpotent varieties. *Bull. Austral. Math. Soc.* 3 (1970), 145-154. (F. Levin) 43 #2091

Characteristic subgroups of free groups. *Bull. London Math. Soc.* 2 (1970), 87-90. (M. J. Dunwoody) 41 #5469

Uncountably many varieties of groups. *Bull. London Math. Soc.* 2 (1970), 280-286. (D. E. Cohen) 43 #2054

Abelian by nilpotent varieties. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 193-202. (D. E. Cohen) 41 #6946

Varieties of Lie algebras. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 297-308. (D. E. Cohen) 42 #4605

On the laws of some varieties of groups. *J. Austral. Math. Soc.* 11 (1970), 353-356. (D. E. Cohen) 42 #4619

Vaught, Robert L.

The elementary character of two notions from general algebra. *Essays on the foundations of mathematics, pp.* 226-233. *Magnes Press, Hebrew Univ., Jerusalem,* 1961. (H. Rasiowa) 30 #1051

Denumerable models of complete theories. *Infinitistic Methods (Proc. Sympos. Foundations of Math., Warsaw,* 1959*), pp.* 303-321. *Pergamon, Oxford; Państwowe Wydawnictwo Naukowe, Warsaw,* 1961. (G. Fuhrken (Zbl 113, 243)) 32 #4011

The completeness of logic with the added quantifier "there are uncountably many". *Fund. Math.* 54 (1964), 303-304. (A. Mostowski) 29 #3364

A Löwenheim-Skolem theorem for cardinals far apart. *Theory of Models (Proc.* 1963 *Internat. Sympos. Berkeley), pp.* 390-401. *North-Holland, Amsterdam,* 1965. (M. Morley) 35 #1460

The Löwenheim-Skolem theorem. *Logic, Methodology and Philos. Sci. (Proc.* 1964 *Internat. Congr.) pp.* 81-89. *North-Holland, Amsterdam,* 1965. (L. N. Gál) 35 #1461

Elementary classes closed under descending intersection. *Proc. Amer. Math. Soc.* 17 (1966), 430-433. (M. Makkai) 33 #49

Axiomatizability by a schema. *J. Symbolic Logic* 32 (1967), 473-479. (R. N. McKenzie) 37 #3916

Model theory and set theory. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 251-253. *Izdat. "Mir", Moscow,* 1968. (From the author's introduction) 38 #992

deVault, G. P. See DeVault, G. P.

Vauquois, Bernard

* Langages artificiels - systèmes formels et traduction automatique. Cours presenté par B. Vauquois a Venise, 15 au 31 Juillet 1962. Centre d'Études pour la Traduction Automatique, Grenoble. *Centre National de la Recherche Scientifique, Paris,* 1963. i + 53 *pp.* (S. Marcus) 31 #2092

Vauthier, Jacques

Comportement asymptotique des transformées de Fourier de distributions à support compact. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A854-A856. (L. Artiaga) 41 #2384

Vavīlov, Ē. M.

(with Osinskiĭ, L. M.) Structural synthesis of automata operating with additional cycles. (Ukrainian. Russian and English summaries) *Avtomatika* 1964, *no.* 2, 42-49. (Authors' summary) 29 #2134

Vavilov, Ye. N. See Vavīlov, Ē. M.

Vayo, H. Westcott

Green's function for a spherical cell. *J. Math. Anal. Appl.* 10 (1965), 25-29. (R. M. Hervé) 30 #2160 (E)

Errata to: "Green's function for a spherical cell". *J. Math. Anal. Appl.* 19 (1967), 599. (R. M. Hervé) 36 #407

Važdaev, V. P.

(with Gel'fer, S. A.) Some estimates in the class of analytic functions of bounded type. (Russian) *Mat. Sb. (N.S.)* 84(126) (1971), 273-289. (I. N. Baker) 43 #3455

Važenin, Ju. M.

Semigroups of inf-endomorphisms of ordered sets. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 1, 23-34. (G. Szász) 43 #6345

Elementary properties of semigroups of transformations of ordered sets. (Russian) *Algebra i Logika* 9 (1970), 281-301. (E. Ja. Gabovič) 44 #344

Ordered sets and their inf-endomorphisms. (Russian) *Mat. Zametki* 7 (1970), 339-347. (B. M. Schein (Šaĭn)) 41 #6729

Važgovskaja, M. Ja.

(with Valēēv, K. G.) An investigation of the stability of the solutions of a system of second order linear differential equations with periodic coefficients. (Russian) *Differencial'nye Uravnenija* 7 (1971), 955-960, 1137. (C. S. Coleman) 44 #7072 (with Valēēv, K. G.) An investigation of stability in resonance cases. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 63-70. (M. Ráb) 43 #7730

Vázquez, Lúis Vigil y. See Vigil y Vázquez, Luis.

Vázquez, Roberto

Left limits of flat modules. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 2 (1962), 57-63. (R. P. Hunter) 31 #3471

(with Cárdenas, Humberto) Projective modules of finite type over commutative rings. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 2 (1962), 65-82. (R. P. Hunter) 31 #3472

Left limits of projective modules. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 3 (1963), 7-19. (K. Grant) 30 #2054

Sheaves with values in categories. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 3 (1963), 37-77. (K. Grant) 30 #2055

(See also Dold, A., 34 #2651)

The category of the triples in a category. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 5 (1965), 21-34. (P.-A. Grillet) 36 #2667

Function spaces and adjoint functors. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 6 (1966), 7-46. (M. L. Laplaza) 38 #664

Function spaces and adjoint functors. II. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 7 (1967), 65-82. (M. L. Laplaza) 38 #4540

Note on regular fibrations. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 8 (1968), 105-116. (G. Hirsch) 41 #2687

Vázquez García, Roberto. See Vázquez, Roberto.

Včerašnjuk, P. P.

On the motion of an artificial earth satellite about its center of mass. (Russian) *Ukrain. Mat. Ž.* 15 (1963), 305-309. (E. Leimanis) 29 #3235

V'čkova, Danica Perčinkova. See Perčinkova-V'čkova, Danica.

V. Dewitz, H. See v. Dewitz, H.

Vdovičenko, N. V.

A calculation of the partition function for a plane dipole lattice. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 715-719 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 477-488. (C. A. Hurst) 31 #5622

Spontaneous magnetization of a plane dipole lattice. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 526-530 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 350-352. (R. B. Potts) 32 #2157

Vdovichenko, N. V. See Vdovičenko, N. V.

Vdovina, È. V.

Some theorems on limit cycles. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2053-2057. (H. A. Antosiewicz) 36 #6691

Some theorems on the number of limit cycles. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6 (1967), *tetrad'* 2, 18-23 (1968). 43 #2288

Veber, M.

The inductive limit of a certain class of KB-lineals. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 13, 24-30. (G. J. O. Jameson) 44 #5755

Veber, V. A.

The stability in the critical case of several pairs of pure imaginary roots for systems with aftereffect. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1614-1625. (K. Schmitt) 41 #2154

Veblen, Oswald

* (with Young, John Wesley) Projective geometry. Vol. 1. *Blaisdell Publishing Co. [Ginn and Co.], New York-Toronto-London,* 1965. x + 345 *pp.* (Editors) 31 #3912a

* (with Young, John Wesley) Projective geometry. Vol. 2 (by Oswald Veblen). *Blaisdell Publishing Co. [Ginn and Co.], New York-Toronto-London,* 1965. x + 511 *pp.* (Editors) 31 #3912b

de Vecchi, Bruno

Linear correlation by the method of minimum absolute values. (Spanish) *Acta Mexicana Ci. Tecn.* 1 (1967), 160-167. 37 #3697

Vecchio, Giuseppe

Sulle superficie algebriche che toccano lungo una curva una data superficie avendo con essa un'intersezione residua assegnata. *Univ. e Politec. Torino Rend. Sem. Mat.* 23 (1963/64), 219-236. (D. Gallarati) 30 #3403

Su certi interi associati ai primari di un ideale in un anello noetheriano. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 377-380. (J. Guerindon) 34 #184

Sugli ideali di classe principale e il teorema degli zeri di Hilbert. *Matematiche (Catania)* 20 (1965), 7-21; *correction, ibid.* 20 (1965), *insert,* 3 *pp.* (D. Gallarati) 31 #3445

Su certi interi associati a un ideale e le molteplicità d'intersezione. *Rend. Sem. Mat. Univ. Padova* 37 (1967), 75-90. (A. N. Tjurin) 36 #5135

Su certi interi associati a un ideale e le molteplicità d'intersezione. *Univ. Genova Pubbl. Ist. Mat. No.* 178 (1967/68), 16 *pp.* (Editors) 37 #1368

Sulla molteplicità d'intersezione per germi di insiemi analitici. *Matematiche (Catania)* 24 (1969), 175-186. (M. L. Laplaza) 42 #5991

Vecoua, Elias. See Vekua, Ilja N.

Vecoua, I. N. See Vekua, Ilja N.

Vecoua, N. P. See Vekua, N. P.

Ved', Ju. A.

The existence, for a second order integro-differential equation, of solutions having asymptotes. (Russian. Kirghiz summary) *Studies in Integro-Differential Equations in Kirghizia, No.* 1 *(Russian), pp.* 77-102. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1961. (Ja. V. Bykov (RŽMat 1962 #5 B352)) 37 #1935

A certain asymptotic property of solutions of linear integro-differential equations. (Russian. Kirghiz summary) *Studies in Integro-Differential Equations in Kirghizia, No.* 1 *(Russian), pp.* 103-110. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1961. (Editors) 37 #1936

(with Merenkov, V. Z.) A certain limit boundary value problem for a linear integro-differential equation. (Russian. Kirghiz summary) *Studies in Integro-Differential Equations in Kirghizia, No.* 1 *(Russian), pp.* 243-249. *Izdat. Akad. Nauk Kirgiz. SSR, Frunz* 1961. (Editors) 37 #1937

Asymptotic estimates of the solutions of linear integro-differential equations. (Russian. Kirghiz summary) *Studies in Integro-Differential Equations in Kirghizia, No.* 1 *(Russian) pp.* 5 75. *Izdat. Akad. Mauk Kirgiz. SSR, Frunze,* 1961. (Editors) 37 #3301

The existence of solutions of integro-differential equations with given nonvertical asymptotes. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 2 *(Russian), pp.* 151-165. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. (Ja. Bykov (RŽMat 1963 #10 B286)) 37 #5648

The asymptotic curves of integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 2 *(Russian), pp.* 181-190. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze* 1962. (Ja. Bykov (RŽMat 1963 #10 B290)) 37 #5650

An initial value problem and limit value problems for integro-differential equations with infinite interval of integration. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 2 *(Russian), pp.* 239-252. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. (Ja. Bykov (RŽMat 1963 #11 B355)) 37 #5657

A certain problem for second order integro-differential equations. (Russian) *Proc. Seventh Sci. Conf. Dept. Higher Math. (Frunze,* 1962*) (Russian), pp.* 37-41. *Frunz. Politehn. Inst., Frunze,* 1963. (L. Krivošein (RŽMat 1964 #3 B384)) 40 #1745

The solvability of a limit problem for Volterra type integro-differential equations. (Russian) *Proc. Seventh Sci. Conf. Dept. Higher Math. (Frunze,* 1962*) (Russian), pp.* 42-46. *Frunz. Politehn. Inst., Frunze,* 1963. (L. Krivošein (RŽMat 1964 #3 B385)) 40 #174

Perturbations of linear homogeneous differential equations with variable coefficients. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 3 *(Russian), pp.* 93-121. *Izdat. "Ilim", Frunze,* 1965. (V. Nemyckiĭ (RŽMat 1967 #7 B252)) 37 #453

Sufficiency tests for the absence of singular points in integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 3 *(Russian), pp.* 123-135. *Izdat. "Ilim", Frunze,* 1965. (Ju. Lando (RŽMat 1967 #1 B194)) 37 #4535

(with Kitaeva, L. N.) Convergence to finite limits of the solutions of integro-differential equations with retarded argument. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 3 *(Russian), pp.* 137-142. *Izdat. "Ilim", Frunze,* 1965. (Ju. Lando (RŽMat 1967 #1 B195)) 37 #4536

(with Samudinov, I.) The unique solvability of two types of limit boundary value problems for integro-differential equations (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 3 *(Russian), pp.* 143-159. *Izdat. "Ilim", Frunze,* 1965. (Ju. Lando (RŽMat 1967 #1 B196)) 37 #4537

On the presence of asymptotic parabolas in the solution of integro-differential equations. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 958-971. (V. Lakshmikantham) 33 #1688

On the question of existence of solutions of differential and integro-differential equations having asymptotic parabolas. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1594-1610. (V. Lakshmikantham) 34 #4860

(with Ražapov, G.) The stability of solutions of nonlinear integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 4 *(Russian), pp.* 196-201. *Izdat. "Ilim", Frunze,* 1967. (Şt. I. Gheorghiţă) 37 #722

(with Kitaeva, L. N.) Criteria for the existence of asymptotes solutions of integro-differential equations with retarded argument. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 4 *(Russian), pp.* 114-117. *Izdat. "Ilim", Frunze,* 1967. (D. Przeworska-Rolewicz) 37 #724

The existence of asymptotic parabolas for the solutions of integro-differential equations with infinite interval of integration. (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 4 *(Russian), pp.* 99-113. *Izdat. "Ilim", Frunze,* 1967. (L. Guggenbuhl) 37 #1938 (with Samudinov, I.) Boundary value problems with conditions at infinity for second order nonlinear integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 5 (Russian), pp.* 58-80. *(errata insert) Izdat. "Ilim", Frunze,* 1968. (O. E. Stanaitis) 41 #775

(with Ražapov, G.) Estimates, boundedness, convergence to zero and stability of solutions of nonlinear integro-differential equations. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 5 (Russian), pp.* 141-155. *(errata insert) Izdat. "Ilim", Frunze,* 1968. (J. Kolomý) 40 #7758

The asymptotic properties of the solutions of a certain class of second order nonlinear differential equations with retarded argument. (Russian) *Studies in Integro-differential Equations in Kirghizia, No. 5 (Russian), pp.* 193-196. *Izdat. "Ilim", Frunze,* 1968. (L. J. Grimm) 41 #606

(with Ražapov, G.) Asymptotic estimates of the solutions of second order nonlinear integro-differential equations. (Russian) *Izv. Akad. Nauk Kirgiz. SSR* 1968, *no.* 6, 16-20. (V. Lakshmikantham) 40 #4715

(with Ražapov, G.) The asymptotic properties of the solutions of a certain class of second order nonlinear integro-differential equations. (Russian) *Sibirsk Mat. Z.* 9 (1968), 29-45. (V. Lakshmikantham) 36 #5643

(with Kitaeva, L. N.) A certain limit value problem for second order differential equations with retarded argument. (Russian) *Sibirsk, Mat. Ž.* 9 (1968), 773-782. (L. J. Grimm) 38 #6192

(with Kitaeva, L. N.) The existence of nonvertical asymptotes for solutions of differential equations with retarded argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 6 (1968), 173-186. (C. Corduneanu) 38 #4788

(with Samudinov, I.) The solvability of limit boundary value problems for nonlinear second order integro-differential equations. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No. 6 (Russian), pp.* 86-93. *Izdat. "Ilim", Frunze,* 1969. (C. Avramescu) 44 #762

(with Bajalieva, S. S.) Asymptotic estimates of the solutions of integro-differential equations with retarded argument. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No. 6 (Russian), pp.* 68-85. *Izdat. "Ilim", Frunze,* 1969. (C. Avramescu) 44 #3098

The stability of the property that the solutions of linear differential equations shall possess asymptotic parabolas. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1889-1893. (Şt. I. Gheorghiţă) 41 #776

(with Pahyrov, Z.) The boundedness and stability of the solutions of integro-differential equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 5 (1969), 2050-2061. (A. Pelczar) 40 #7759

(with Ražapov, G.) Asymptotic estimates of the solutions of a certain class of second order nonlinear integro-differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 5 (84), 3-13. (L. Guggenbuhl) 40 #6221

A certain method of solving linear integro-differential equations. (Russian) *Izv. Akad. Nauk Kirgiz. SSR* 1969, *no.* 5, 24-27. (F. Smithies) 42 #809

(with Ražapov, G.) The existence of bounded solutions of nonlinear integro-differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 17-23. (L. von Wolfersdorf) 40 #3244

Asymptotic estimates of the solutions of differential equations with lagging argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 146-155. (A. Halanay) 39 #5905

(with Bajalieva, S. S.) Asymptotic relations between the solutions of linear homogeneous differential and integro-differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 335-342. (C. Avramescu) 42 #4990

(with Pahyrov, Z.) The boundedness and convergence to zero of solutions of integro-differential equations with retarded argument. (Russian) *Izv. Akad. Nauk Kirgiz. SSR* 1970, *no.* 1, 19-27. 41 #5917

Asymptotic estimates of the solutions of a certain class of nonlinear integro-differential equations. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1097-1107, 1141. (A. Corduneanu) 44 #4474

Vedad Alpman, Bahri. See Alpman, Bahri Vedad.

Vedak, K. B.

(See Bonsall, F. F., 33 #6332)

Vedel', Ja. Ja. See Wedel, Jakob.

Vedeneev, E. P.

(with Židkov, N. P.) On a certain iterative method for the solution of the scattering problem of neutral mesons. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 452-472. *Izdat. Moskov. Univ., Moscow,* 1965. (I. Bialynicki-Birula) 32 #6981

(with Židkov, N. P; Ščedrin, B. M) Differentiation of a tabular function by the method of interpolating conjugacy. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 433-437. (T. I. Seidman) 44 #1221

Vedenov, A. A.

Solid state plasma. *Uspehi Fiz. Nauk* 84 (1964), 533-555 *(Russian); translated as Soviet Physics Uspekhi* 7 (1965), 809-822. (E. L. Hill) 31 #4537

* Теория турбулентной плазмы. (Russian) [Theory of turbulent plasma] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 115 *pp.* (J. C. J. Nihoul) 33 #2056

(See also Reviews of plasma physics, 33 #2341)

Vedernikov, V. A.

Finite groups with permutable subgroups. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 1057-1059. (K. Strambach) 37 #1466

Tests for solvability and supersolvability of finite groups. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1236-1244. (P. Fong) 36 #3886

(with Kohno, A. P.) The effect of subgroup chains on the properties of finite groups. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 3, 75-81. (L. Bokut') 36 #268

Finite factorable groups. (Russian) *Mat. Zametki* 3 (1968), 201-210. (P. Fong) 38 #1175

(with Kohno, A. P.) Certain classes of finite solvable groups. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 6, 12-18. (G. Pic) 44 #6841

Vedernikov, V. I.

Surfaces of rotation in a Euclidean space E_n. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1960, *no.* 1 (14), 39-47. (Ja. L. Šapiro (RŽMat 1961 #3 A466)) 31 #1618

A generalization of A. P. Norden's method of normalization for the case of a fibered space. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 123 (1963), *kn.* 1, 3-23. (M. Pinl) 33 #669

A pseudo-linear connection. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 2 (39), 41-52. (W. Burau) 29 #6443

On conjugate connections. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 19-29. (W. Burau) 29 #6444

(with Čudinov, N. N.) Conjugate connections in the space of contact elements of a centroaffine space. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 15-20. (V. Havel) 36 #2082

Completely reducible connections. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 33-44. (W. Burau) 31 #3973

Symmetric spaces and conjugate connections. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 7-59. (V. Havel) 34 #6689

Symmetric spaces. Conjugate connections as a normalized connection. (Russian) *Trudy Geometr. Sem.* 1 (1966), 63-88. (V. Havel) 34 #6690

Hypersurfaces of the Euclidean space enveloping an *m*-parametric family of hyperspheres. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 8-13. (P. Drăgilă) 35 #4854

Vedeškina, R. D.

(See Tables for the computation of Mathiew functions. Characteristic values, coefficients and joining factors, 39 #5037)

Vedrinskiĭ, R. V.

An estimate for the wave function which is analytic with respect to the energy. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 4, 81-82. (K. Kumar) 29 #5537

Contribution to the three-particle scattering problem in quantum mechanics. *Jadernaja Fiz.* 3 (1966), 569-574 *(Russian); translated as Soviet J. Nuclear Phys.* 3 (1966), 411-414. (R. E. Kreps) 33 #8175

Vèduva, I.

Sequential tests for distributions of exponential type. (Russian) *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 705-716. (J. Machek) 31 #2815

Veech, William A.

Almost automorphic functions on groups. *Amer. J. Math.* 87 (1965), 719-751. (E. Følner) 32 #4469

* A second course in complex analysis. *W. A. Benjamin, Inc., New York-Amsterdam,* 1967. ix + 246 *pp.* (E. Hille) 36 #3955

On a theorem of Bochner. *Ann. of Math.* (2) 86 (1967), 117-137. (E. Følner) 35 #6780

Almost automorphy and a theorem of Loomis. *Arch. Math. (Basel)* 18 (1967), 267-270. (E. Følner) 36 #1925

The equicontinuous structure relation for minimal Abelian transformation groups. *Amer. J. Math.* 90 (1968), 723-732. (S. N. Hudson) 38 #702

A moment theorem. *Proc. Amer. Math. Soc.* 19 (1968), 501-504. (M. Hasumi) 36 #6876

A Kronecker-Weyl theorem modulo 2. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1163-1164. (J. H. Neuwirth) 38 #123

Properties of minimal functions on abelian groups. *Amer. J. Math.* 91 (1969), 415-440. (J. H. Neuwirth) 40 #644

Minimal transformation groups with distal points. *Bull. Amer. Math. Soc.* 75 (1969), 481-486. (R. F. Williams) 41 #4508

Complementation and continuity in spaces of almost automorphic functions. *Math. Scand.* 25 (1969), 109-112. (G. P. Johnson) 41 #737

Strict ergodicity in zero dimensional dynamical systems and the Kronecker-Weyl theorem mod 2. *Trans. Amer. Math. Soc.* 140 (1969), 1-33. (J. H. Neuwirth) 39 #1410

Point-distal flows. *Amer. J. Math.* 92 (1970), 205-242. (N. E. Foland) 42 #2462

Some questions of uniform distribution. *Ann. of Math.* (2) 94 (1971), 125-138. (T.-C. Sun) 44 #4187

Short proof of Sobczyk's theorem. *Proc. Amer. Math. Soc.* 28 (1971), 627-628. (A. Sobczyk) 43 #879

Well distributed sequences of integers. *Trans. Amer. Math. Soc.* 161 (1971), 63-70. (I. Niven) 44 #2715

A converse to Gauss' theorem. *Bull. Amer. Math. Soc.* 78 (1972), 444-446. (F. L. Spitzer) 44 #6987

Veégh, M.

(with Maurer, I. Gy.) Two demonstrations of a theorem of B. Gyíres. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 10 (1965), *no.* 1, 7-11. (Authors' summary) 32 #2367

Veenker, G.

Beweisalgorithmen für die Prädikatenlogik. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 263-283. (J. A. Schatz) 37 #6059

(with Niethammer, W.) Maschinen and mathematische Beweise. *Math.-Phys. Semesterber.* 16 (1969), 170-188. (A. A. Mullin) 42 #4335

(with Hoffmann, G.-R.) The unit-clause proof procedure with equality. (German summary) *Computing (Arch. Elektron. Rechnen)* 7 (1971), 91-105. (I. Kramosil) 44 #5227

Veevers, A.

(with Tweedie, M. C. K.) The inversion of cumulant operators for power-series distributions, and the approximate stabilization of variance by transformations. *J. Amer. Statist. Assoc.* 63 (1968), 321-328. (G. P. Patil) 37 #2354

Vegas Pérez, Angel

Approximate expression of a distribution function. (Spanish. English summary) *Trabajos Estadíst.* 16 (1965), *cuad.* 2-3, 41-51. (Author's summary) 32 #8381

Non-parametric estimation for monotone processes. (Spanish) *Trabajos Estadíst.* 15 (1964), *cuad.* 1, 21-37. (Z. Šidák) 31 #4121

Models of integration. (Spanish) *Trabajos Estadíst.* 21 (1970), 17-34. (G. Tintner) 42 #2782

Vegh, Emanuel

Pairs of consecutive primitive roots modulo a prime. *Proc. Amer. Math. Soc.* 19 (1968), 1169-1170. (K. S. Williams) 37 #6240

Primitive roots modulo a prime as consecutive terms of an arithmetic progression. *J. Reine Angew. Math.* 235 (1969), 185-188. (T. M. Apostol) 39 #4086

* (with Hauptman, Herbert; Fisher, Janet) Table of all primitive roots for primes less than 5000. Mathematics Research Center, Report 70-5. NRL Report 7070. *Naval Research Laboratory, Washington, D. C.*, 1970. v + 590 *pp.* (Authors' summary) 42 #5886

A new condition for consecutive primitive roots of a prime. *Elem. Math.* 25 (1970), 113. (K. S. Williams) 44 #1624

Arithmetic progressions of primitive roots of a prime. II. *J. Reine Angew. Math.* 244 (1970), 108-111. (T. M. Apostol) 42 #1755

A note on the distribution of the primitive roots of a prime. *J. Number Theory* 3 (1971), 13-18. (T. Hayashida) 44 #2694

Vehov, P. P.

(with Gol'dberg, M. P.) On the problem of solving systems of linear algebraic equations. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 245 (1964), 3-7. (H. Schwerdtfeger) 37 #1068

(with Barban, M. B.) An extremal problem. (Russian) *Trudy Moskov. Mat. Obšč.* 18 (1968), 83-90. (A. I. Vinogradov) 38 #4410

(with Barban, M. V.) Summation of multiplicative functions of polynomials. (Russian) *Mat. Zametki* 5 (1969), 669-680. (A. I. Vinogradov) 40 #4221

Veĭc, B. E.

Some characteristic properties of unconditional bases. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 509-512. (M. Katětov) 29 #3865

Some properties of stability of bases. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 13-16. (A. Dvoretzky) 31 #1544

Bessel and Hilbert systems in Banach spaces and questions of stability. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 7-23. (W. V. Petryshyn) 33 #549

Lacunary systems. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 762-765. (A. Alexiewicz) 37 #4575

The existence of lacunary systems in Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 15-18. (W. R. Transue) 41 #2364

Orthogonal systems of elements in smooth Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 9-12. (A. Buraczewski) 42 #8257 (E)

Letter to the editor. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), vii. (A. Buraczewski) 43 #3776

Criteria for the Hilbertness of a Banach space in terms of smoothness. (Russian) *Mat. Zametki* 9 (1971), 385-390. (M. M. Day) 44 #782

Veidinger, László

On finite-difference approximations to solutions of quasilinear hyperbolic systems. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 211-225. (H.-O. Kreiss) 29 #2993

Computation of the eigenvalues of a membrain by a finite-difference method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1037-1044. (L. B. Rall) 30 #1620

On an error estimate for the determination of eigenvalues by the method of finite differences. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 806-815. (T. I. Seidman) 34 #945

Calculation of the eigenvalues and eigenfunctions of the Laplace operator by the method of finite differences. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 687-698. (S. H. Gould) 34 #2173

Estimate of the error in the determination of eigenfunctions by the method of finite differences. (Russian) *Studia Sci. Math. Hungar.* 2 (1967), 185-191. (J. S. Shipman) 36 #1125

On the difference method of Pólya. (Russian) *Studia Sci. Math. Hungar.* 2 (1967), 193-199. (J. S. Shipman) 35 #5154

On the order of convergence of finite-difference approximations to the solution of the Dirichlet problem in a domain with corners. *Studia Sci. Math. Hungar.* 3 (1968), 337-343. (M. Wachman) 38 #876

Estimating the error of the finite-difference method in elliptical boundary value and eigenvalue problems. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 18 (1968), 169-181. (R. S. Varga) 41 #1243

On the order of convergence of finite-difference approximations to eigenvalues and eigenfunctions. *Studia Sci. Math. Hungar.* 5 (1970), 75-87. (J. D. P. Donnelly) 42 #8680

Veiga, Hugo Beirão da. See Beirão da Veiga, Hugo.

da Veiga de Oliveira, Fernando Vasco Alves

Sur une erreur commise dans la déduction d'une formule de résolution de l'équation de Fourier. *Univ. Lisboa Revista Fac. Ci. A* (2) 11, 257-272 (1965/66). (W. F. Ames) 38 #434

Veĭl', G. See Weyl, Hermann.

Vein, P. R.

The application of non-unique solutions of one integral equati to the solution of another. *Math. Gaz.* 50 (1966), 147-149. (A. A. Armendáriz) 33 #4640

Functions which satisfy Abel's differential equation. *SIAM J. Appl. Math.* 15 (1967), 618-623. (Marko Švec) 35 #5682

Veinott, Arthur F., Jr.

Optimal stockage policies with non-stationary stochastic demands. *Multistage Inventory Models and Techniques, pp.* 85-115. *Stanford Univ. Press, Stanford, Calif.*, 1963. (D. L. Iglehart) 32 #7260

(with Wagner, Harvey M.) Computing optimal *(s,S)* inventory policies. *Management Sci.* 11 (1964/65), 525-552. (M. J. Beckmann) 31 #1113

Optimal policy for a multi-product, dynamic, nonstationary inventory problem. *Management Sci.* 12 (1965), 206-222. (Author's summary) 32 #5395

The optimal inventory policy for batch ordering. *Operations Res.* 13 (1965), 424-432. (F. G. Foster) 33 #1156

Optimal policy in a dynamic, single product, nonstationary inventory model with several demand classes. *Operations Res.* 13 (1965), 761-778. (E. H. Lehman, Jr.) 32 #3874

On finding optimal policies in discrete dynamic programming with no discounting. *Ann. Math. Statist.* 37 (1966), 1284-1294. (B. Bereanu) 34 #8800

The status of mathematical inventory theory. *Management Sci.* 12 (1966), 745-777. (Author's summary) 33 #3791

(with Bessler, Stuart A.) Optimal policy for a dynamic multi-echelon inventory model. *Naval Res. Logist. Quart.* 13 (1966), 355-389. (D. L. Iglehart) 34 #8818

On the optimality of *(s, S)* inventory policies: New conditions and a new proof. *SIAM J. Appl. Math.* 14 (1966), 1067-1083. (K. J. Arrow) 34 #5523

(with Derman, Cyrus) A solution to a countable system of equations arising in Markovian decision processes. *Ann. Math. Statist.* 38 (1967), 582-584. (R. S. Ferguson) 34 #8580

The supporting hyperplane method for unimodal programming. *Operations Res.* 15 (1967), 147-152. (E. L. Johnson) 34 #8815

(with Topkis, Donald M.) On the convergence of some feasible direction algorithms for nonlinear programming. *SIAM J. Control* 5 (1967), 268-279. (H. F. Karreman) 35 #4026

On the optimality of *(s, S)* inventory policies: New conditions and a new proof. *Mathematics of the Decision Sciences, Part* 2, *pp.* 173-192. *American Mathematical Society, Providence, R. I.*, 1968. (K. J. Arrow) 38 #3026

(See also Mathematics of the decision sciences, 38 #958)

Extreme points of Leontief substitution systems. *Linear Algebra and Appl.* 1 (1968), 181-194. (W. F. Tyndall) 38 #915

(with Dantzig, George B.) Integral extreme points. *SIAM Rev.* 10 (1968), 371-372. (Editors) 38 #1110

(with Miller, Bruce L.) Discrete dynamic programming with a small interest rate. *Ann. Math. Statist.* 40 (1969), 366-370. (H. Taylor) 38 #6837

Discrete dynamic programming with sensitive discount optimality criteria. *Ann. Math. Statist.* 40 (1969), 1635-1660. (H. Taylor) 41 #1368

Minimum concave-cost solution of Leontief substitution models of multi-facility inventory systems. *Operations Res.* 17 (1969), 262-291. (H. Taylor) 39 #7930

Veis, G.

(See Use of artificial satellites for geodesy, 29 #2079)

Veĭsfeĭler, B. Ju.

The classification of semi-simple Lie algebras over a p-adic field. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 258-260. (M. Sugiura) 30 #201

A class of unipotent sub-groups of semi-simple algebraic groups. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 2 (128), 222-223. (G. Biriuk) 33 #2634

Infinite dimensional filtered Lie algebras and their connection with graded Lie algebras. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 1, 94-95. (W. T. van Est) 38 #1134

A certain property of semisimple algebraic groups. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 3, 84-85. *(Loose errata)* (J.-E. Bertin) 39 #2770

(with Adel'son-Vel'skiĭ, G. M.; Leman, A. A.; Faradžev, I. A.) An example of a graph which has no transitive group of automorphisms. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 975-976. (B. Gordon) 39 #5424

Certain properties of singular semisimple algebraic groups over non-closed fields. (Russian) *Trudy Moskov. Mat. Obšč.* 20 (1969), 111-136. (N. Popescu) 41 #1745

A remark on certain algebraic groups. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 1, 91. (Andrzej Białynicki-Birula) 42 #1832

(with Veĭsfeĭler, B. Ju.) The irreducible representations of Lie p-algebras. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 2, 28-36. (D. Miličić) 44 #2793

Semisimple algebraic groups that are decomposable over a quadratic extension. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 56-71. (J.-E. Bertin) 43 #3270

Veĭsman, N. L.

On the question of the existence of several solutions of the Dirichlet problem for strongly elliptic Monge-Ampère equations. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 395 (1970), 87-99. (V. Linis) 44 #7159

Veĭssenberg, A. N.

(with Kuščev, B. I.) A certain criterion for instability in the critical case with an even number of zero roots. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 10 (77), 17-20. (F. Brauer) 40 #481

A transformation of the system of differential equations of a perturbed motion in the critical case with an even number of zero roots. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 11 (78), 41-47. (C. Olech) 42 #3371

On the question of the investigation of the stability of the zero solution in a certain critical case. (Russian) *Voronež Tehn. Inst. Trudy* 17 (1968), *vyp.* 3, 3-7. (C. Olech) 43 #3574

(with Kuščev, B. I.) Instability in a certain critical case. (Russian) *Voronež. Tehn. Inst. Trudy* 17 (1968), *vyp.* 3, 8-10. (C. Olech) 43 #3575

(with Kuščev, B. I.) A certain test for the sign definiteness of a form of degree four. (Russian) *Voronež. Tehn. Inst. Trudy* 17 (1968), *vyp.* 3, 25-28. (C. Olech) 43 #3288

Veĭvoda, O. See Vejvoda, Otto.

Vejvoda, Otto

Nonlinear boundary-value problems for differential equations. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp.* 199-215. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (G. Prodi) 30 #3287

Periodic solutions of a linear and weakly nonlinear wave equation in one dimension. I. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 341-382. (D. Ludwig) 30 #5063

Einige Resultate aus der Theorie der periodischen Lösungen hyperbolischer Differentialgleichungen. (Russian and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 130-131. (Editors) 33 #1597

Periodic solutions of nonlinear partial differential equations of evolution. *Diff. Equations and their Applications, Equadiff II (Proc. Conf., Bratislava, 1966), pp.* 293-300. *Slov. Ped. Nakladateľ., Bratislava,* 1967. (Editors) 40 #3034

(with Šťastnová, Věnceslava) Periodic solutions of the first boundary value problem for a linear and weakly nonlinear heat equation. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 466-477; *correction, ibid.* 14 (1969), 241. (J. R. Cannon) 39 #4512

(See also Rektorys, Karel, 39 #2370)

Periodic solutions of a weakly nonlinear wave equation in E_3 in a spherically symmetrical case. (Czech summary) *Apl. Mat.* 14 (1969), 160-167. (J. R. Cannon) 39 #604

(with Krylová, Naděžda) A linear and weakly nonlinear equation of a beam: The boundary-value problem for free extremities and its periodic solutions. *Czechoslovak Math. J.* 21(96) (1971), 535-566. (J. R. Cannon) 44 #7103

Vekerdi, László

The discovery of pre-Euclidean mathematics. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 13 (1963), 133-150. (Á. Szabó) 29 #3337

Infinitesimal methods in Pascal's mathematics. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 13 (1963), 269-285. (Á. Szabó) 29 #3338

The origin of the ***Principia***. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 161-182. (J. Cofman) 38 #13

The development of the Newton infinitesimal calculus in the light of 20th century mathematical historiography. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Kösl.* 14 (1964), 35-70. 42 #18

Infinite series and fluxions: Development of the Newton infinitesimal calculus. II. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 423-441. (Á. Szabó (RŽMat 1965 #7 A24)) 42 #19

The infinitesimal method of Descartes for computing the area of the cycloid. (Hungarian) *Mat. Lapok* 15 (1964), 196-203. (Á. Szabó) 31 #2116

Descartes' method for drawing a tangent. (Hungarian. English summary) *Mat. Lapok* 17 (1966), 165-179. (L. Gyarmathi) 36 #1268

Vekilov, Š. I.

Solution of the Dirichlet problem for the Laplace equation in a composite region with corners. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Mat. Tehn. Nauk* 1962, *no.* 2, 27-37. (V. Zaharov (RŽMat 1963 #3 B250)) 31 #1454

The Green's function for the Laplace operator in a composite region. (Azerbaijani. Russian Summary) *Akad. Nauk Azerbaĭdžan. SSR Trudy Inst. Mat. Meh.* 2(10) (1963), 24-31. (Editors) 31 #367

The solution of Zaremba's problem in a composite region. (Azerbaijani. Russian summary) *Akad. Nauk Azerbaĭdžan. SSR Trudy Inst. Mat. Meh.* 2(10) (1963), 32-38. (A. J. Lohwater) 31 #368

An application of potential theory to the solution of Dirichlet problems for an elliptic equation in a domain with corners. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Mat. Tehn. Nauk* 1963, *no.* 6, 11-16. (J. Nečas) 29 #4980

The first boundary-value problem for the Laplace equation in a composite region with corners. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1964, *no.* 1, 7-12. (J. Král) 29 #263

An application of the method of lines to a boundary value problem for a nonlinear system. (Russian) *Studies in Theory of Differential Equations and Theory of Functions (Russian), pp.* 25-32. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (R. K. Juberg) 36 #2977

An application of the contraction mapping principle to the solution of a Dirichlet problem. (Russian) *Functional Anal. Certain Problems Theory of Different. Equations and Theory of Functions (Russian), pp.* 30-39. *Izdat. Akad. Nauk Azerbaidžan. SSR, Baku,* 1967. (L. K. Jackson) 35 #3259

Solution of a certain nonlinear boundary value problem for a system of partial differential equations. (Russian) *Functional Anal. Certain Problems Theory of Different. Equations and Theory of Functions (Russian), pp.* 40-49. *Izdat. Akad. Nauk Azerbaidžan. SSR, Baku,* 1967. (L. K. Jackson) 35 #3260

Veksler, A. I.

On realizations of K-lineals. (Russian) *Sibirsk. Mat. Ž.* 4 (1963), 1186-1188. (Đ. Kurepa) 31 #2174

The operations of partial multiplication in vector lattices. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 759-762. (M. Novotný) 29 #6289

Linear lattices with a sufficient set of maximal l-ideals. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 205-222. (John Ellis) 34 #3291

Two problems in the theory of semi-ordered spaces. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 952-954. (M. Novotný) 29 #5096

Structural orderability of algebras and rings. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 259-262. (S. E. Dickson) 32 #7609

Some classes of ordered vector spaces. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 50-63. (J. R. Isbell) 30 #2322

Application of the concept of n_1-set to the theory of linear partially ordered spaces. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 1209-1226. (R. Cristescu) 33 #554

The concept of a linear lattice which is normal in itself, and certain applications of this concept to the theory of linear and linear normed lattices. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 13-22. (G. J. O. Jameson) 34 #595

Archimedean principle in homomorphic images of l-groups and of vector lattices. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 5 (54), 33-38. (M. Novotný) 34 #6501

Realizational partial multiplications in linear lattices. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1203-1228. (M. Novotný) 37 #122

Linear spaces with disjoint elements and their conversion into vector lattices. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 19-43. (E. Strzelecki) 36 #6904

A new construction of the Dedekind completion of vector lattices and *l*-groups with division. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 1206-1213. (John Ellis) 41 #5935

The partial orderability of rings and algebras. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 756-759. (S. P. Bandyopadhyay) 41 #1620

P-sets in topological spaces. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 510-513. (J. J. Charatonik) 43 #5480

Certain properties of the vector lattices that are complete with respect to convergence with a regulator. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 9 (100), 21-28. (T. Ando) 43 #6699

The Banach and Dedekind completeness of continuous function spaces, vector lattices and maximal rings of quotients. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 20-23. (T. Ando) 42 #8244

(with Rotkovič, G. Ja.) A certain property of irreducible images of extremally disconnected hyper-Stonian bicompacta and its application to the theory of partially ordered spaces. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 278-283. (L. Skula) 44 #3300

Veksler, D. See Wexler, Dinu.

Veksler, Ju. A.

(with Eržanov, Ž. S.; Naĭmark, B. M.; Kolokolov, S. B.) The approximate conformal mapping of simply connected regions with a changing boundary. (Russian) *Vestnik Akad. Nauk Kazah. SSR* 25 (1969), *no.* 7 (291), 61-63. 44 #7789

Vekua, Il'ja N.

On the theory of quasiconformal mappings. (Russian) *Certain Problems in Mathematics and Mechanics (In Honor of M. A. Lavrent'ev (Russian), pp.* 57-64. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1961. (J. Ławryonowicz) 42 #496

On the construction of a complete system of solutions of second order elliptic partial differential equations. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963), *pp.* 292-296. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (M. Coroi-Nedelcu) 34 #3097

Theory of thin shells of shallow variable thickness. (Russian. Georgian summary) *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze* 30 (1965), 3-103. (J. F. Heyda) 33 #5191

* New methods for solving elliptic equations. Translated from the Russian by D. E. Brown. Translation edited by A. B. Tayler. North-Holland Series in Applied Mathematics and Mechanics, Vol. 1. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1967. xii + 358 *pp.* (Editors) 35 #3243

(See also Bicadze, A. V., 38 #16)

Основы тензорнозо анализа. (Russian) [Fundamentals of tensor analysis]. *Izdat. Tbilis. Univ., Tbilisi,* 1967. 137 *pp.* (M. C. Chaki) 38 #6481

(See also Bibliography of the scientific works of I. N. Vekua, 37 #1222, 40 #4072 and Daniljuk, I. I.; Mushelišvili, N. I.; Petrovskiĭ, I. G., 35 #6514)

The integration of the system of equations for elastic equilibrium of a plate. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 541-544. (L. Janos) 40 #6063

The integration of equilibrium equations of a cylindrical shell. *Dokl. Akad. Nauk SSSR* 186 (1969), 787-790 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 613-615. (H. R. Aggarwal) 41 #9473

A certain class of irregular elliptic systems of first order equations. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Mohsen. Anotacie* 1 (1969), 5-9. (E. Gerlach) 43 #2353

(See also Bibliography, 43 #4619)

On one class of the elliptic systems with singularities. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969), *pp.* 142-147. *Unov. of Tokyo Press, Tokyo,* 1970. (M. O. Gonzalez) 42 #7918

A certain method of solving the fundamental biharmonic boundary value problem and the Dirichlet problem. (Russian. Georgian and English summary) *Gamoqeneb. Math. Inst. Sem. Mohsen. Anotacie Vyp.* 3 (1970), 27-32. (M. A. Atahodžaev) 44 #460

Vekua, N. P.

On a differential boundary-value problem of linear conjugacy with a small parameter. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 36 (1964), 257-260. (J. F. Heyda) 30 #261

On certain integro-differential equations with small parameter. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 36 (1964), 513-519. (Ju. Lando (RŽMat 1965 #8 B316)) 35 #2123

On a system of nonlinear differential equations with a small parameter. (Georgian. Russian summary) *Thbilis. Sahelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 110 (1965), 25-32. (From the author's summary) 33 #6065

On a system of integro-differential equations with a small parameter. (Georgian. Russian summary) *Thbilis. Sahelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 117 (1966), 249-253. (Author's summary) 34 #6478

* Systems of singular integral equations. Translated from the Russian by A. G. Gibbs and G. M. Simmons. Edited by J. H. Ferziger. *P. Noordhoff, Ltd., Groningen,* 1967. 216 *pp.* (Editors) 35 #2102

A certain system of integro-differential equations with a small parameter. (Georgian. Russian summary) *Sakharth. SSR Mecn Akad. Math. Inst. Šrom.* 33 (1967), 21-24. (T. G. Gegelia) 37 #6721

A certain generalized Hilbert boundary value problem for several unknown functions. (Russian. Georgian summary) *Sakharth SSR Mecn. Akad. Math. Inst. Šrom* 34 (1968), 5-12. (L. von Wolfersdorf) 41 #5635

A new way of solving the Hilbert boundary value problem for several unknown functions. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 52 (1968), 17-20. (R. A. Kordzadze) 42 #4749

* Системы сингулярных интегральных уравнений и некоторые граничные задачи. (Russian) [Systems of singular integral equations and certain boundary value problems] Second revised and supplemented edition. *Izdat. "Nauka", Moscow,* 1970. 379 *pp.* (W. Żakowski) 42 #4979

van de Vel, H. See Van de Vel, H.

Vela, M. Colón. See Colón Vela, M.

Velasco, Enrique A. González. See González Velasco, Enrique A.

Velculescu, V.-G. A.

(with Stihi, M.) Regge poles in the theory of potentials. I. Analytic properties of *S*-matrices in the *k*-plane. (Romanian) *Stud. Cerc. Fiz.* 17 (1965), 71-100. (E. Predazzi) 32 #6938

(with Stihi, M.) Regge poles in theory of potentials. II. (Romanian) *Stud. Cerc. Fiz.* 17 (1965), 661-693. (E. Predazzi) 32 #6939

in't Veld, R. J.

(van Zwet, W. R.) Elections with a winner. (Dutch. English summary) *Statistica Neeflandica* 23 (1969), 269-276. (Authors' summary) 41 #4608

van der Velde, E. A.

(with Molenaar, W.) How to survive a fixed number of fair bets. *Ann. Math. Statist.* 38 (1967), 1278-1280. (L. J. Savage) 35 #5016

vander Velde, W. E. See Vander Velde, W. E.

Veldkamp, Ferdinand D.

Isomorphisms of little and middle projective groups of octave planes. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 280-289. (O. H. Kegel) 29 #4809

Unitary groups in projective octave planes. *Compositio Math.* 19, 213-258 (1968). (G. J. Schellekens) 38 #5109

(with Springer, Tonny A.) On Hjelmslev-Moufang planes. *Math Z.* 107 (1968), 249-263. (G. Zappa) 40 #1884

Collineation groups in Hjelmslev-Moufang planes. *Math. Z.* 108 (1968), 37-52. (A. Barlotti) 40 #1885

Unitary groups in Hjelmslev-Moufang planes. *Math. Z.* 108 (1969), 288-312. (H. Freudenthal) 39 #3389

Representations of algebraic groups of type F_4 in characteristic 2. *J. Algebra* 16 (1970), 326-339. (E. J. Taft) 42 #4651

Veldkamp, Geert Remmert

Applications of the Bottema-invariants in plane kinematics. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 430-440. (O. Bottema) 31 #915

A theorem concerning Soddy-circles. *Elem. Math.* 21 (1966), 15-17. (H. S. M. Coxeter) 33 #605

Velibekov, È. R.

A generalized self-consistent field method and collective excitations in the superconductivity theory. *Dokl. Akad. Nauk SSSR* 150 (1963), 1015-1018 *(Russian); translated as Soviet Physics Dokl.* 8 (1963), 576-579. (M. J. Stephen) 29 #5586

Veličenko, V. V.

A numerical method of solution of problems of optimal control. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 635-647. (R. Rishel) 34 #4036

Optimal control problems for equations with discontinuous right-hand sides. *Avtomat. i Telemeh.* 1966, *no.* 7, 20-30 *(Russian. English summary); translated as Automat. Remote Control* 27 (1966), 1153-1163 (1967). (Henry Hermes) 35 #1383

Optimality conditions in control problems with intermediate conditions. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 1011-1013. (W. M. Wonham) 35 #7719

Optimal control of composite systems. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 754-756. (R. F. Datko) 37 #1182

On sufficient conditions for optimality in the maximum principle. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 747-749. (R. Rishel) 38 #1579

On the problem of invariance of dynamical systems. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 263-266. (P. Gerl) 40 #2998

The invariance of discrete systems. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 503-506. (V. F. Dem'janov) 39 #2452

Veličkin, A. I.

Mean-square error for the quantization of continuous information with noise. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 4, 59-67. 31 #5721

Synthesis and investigation of discrete systems, intended for the transmission of continuous information. I. The synthesis of optimal systems. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 1, 93-102. 32 #2256

Veličko, N. V.

Extension of mappings of topological spaces. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 64-69. (R. Duda) 31 #4010

H-closed topological spaces. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 98-112. (J. G. Ceder) 33 #6576

An example of an open compact monotonic continuous mapping of a non-metrizable bicompactum onto a compactum. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 995-996. (Eugene F. Steiner) 37 #891

Extension of mappings of topological spaces. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 1255-1258. (Roman Duda) 36 #5912

On the theory of *H*-closed topological spaces. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 754-763. (M. Katětov) 37 #3505; erratum, 37, p. 1470

Veliev, M. A.

Stability of the Bubnov-Galerkin method for degenerate parabolic equations. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 5, 67-73. (T. Styś) 36 #3520

A study of the stability of the Bubnov-Galerkin method for non-stationary problems. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 16-18. (Walter Gautschi) 29 #4203

Stability of the Bubnov-Galerkin method for first order equations in Hilbert space. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 783-789. (M. Bertolino) 38 #3561

Certain sufficient conditions for the stability of the Bubnov-Galerkin method for a second order equation with constant coefficients in Hilbert space. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1969, *no.* 2, 3-12. (V. V. Barkovskiĭ) 44 #1908

The stability of the Bubnov-Galerkin method for first order equations with variable coefficients in Hilbert space. (Russian) *Differencial'nye Uravnenija* 5 (1969), 479-487. (O. Vejvoda) 39 #3126

Veliev, S. G.

(with Aliev, N. A.) The expansion of matrix-valued functions with respect to the solution of a certain spectral problem. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1967, *no.* 2, 51-55. (L. Janos) 41 #3869

Velikiĭ, A. P.

On the asymptotic behavior of generalized solutions of differential-difference equations with a small parameter multiplying the highest derivatives. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1964, 1419-1423. (P. Boundarenko (RŽMat 1965, #10 B386)) 34 #7921

Velikin, V. L.

Best approximation by spline functions on classes of continuous functions. (Russian) *Mat. Zametki* 8 (1970), 41-46. (H. E. Warren) 42 #3474

Velikoīvanenko, I. M.

(with Ljaško, Ī. Ī.) A problem of the flow of water into a pit. (Ukrainian. Russian summary) *Vīsnik Kiīv. Unīv.* 1964, *no.* 6, 19-26. (J. N. Newman) 32 #8615

* (with Položiĭ, G. M.; Paharēva, N. O.; Stepanenko, I. Z.; Bondarenko, P. S.) Metody przybliżonych obliczeń. (Polish) [Method of approximate calculations] Edited by G. N. Položiĭ. Translated from the Russian by Robert Konstanty Krzywiec. *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1966. 487 *pp.* (Editors) 36 #4774

(with Ljaško, Ī. Ī.; Misteckiĭ, G. E.) The numerical-analytic solution of certain boundary value problems for the equation $\mathrm{div}(\kappa\ \mathrm{grad}\ \phi) = F$ with piece-wise constant κ. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 557-566. (E. L. Albasiny) 41 #4833

(with Ljaško, I. Ī.; Misteckiĭ, G. E.) A general solution of a finite difference problem for the equation $\mathrm{div}(\kappa\Delta\Psi) = F$ with piecewise constant χ and with Neumann conditions on a part of the boundary. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2074-2079. (D. P. Squier) 43 #5744

(with Ljaško, I. Ī.) Certain formulae of summary representations for finite difference problems. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Udraīn. RSR Ser. A* 1970, 107-112, 187. (B. A. Bondarenko) 43 #7085

(with Ljaško, Ī. Ī.; Misteckiĭ, G. E.) A solution in a finite difference formulation of boundary value problems for a certain equation of elliptic type. (Russian) *Ukrain. Mat. Ž.* 23 (1971), 229-235. (T. Styś) 44 #6172

Velkov, Filip

A method for increasing the authenticity in operative information transmission. (Bulgarian. Russian and English summaries) *B"lgar. Akad. Nauk. Otdel Tehn. Nauk. Izv. Inst. Tehn. Kibernet.* 12 (1970), 119-144. (Author's summary) 42 #4311

Vel'min, Volodimir Petrovič

(See Dobrovol's'kiĭ, V. O., 33 #2516)

(with Mitropol's'kiĭ, Ju. O.; Sokolov, Ju. D.; Černīkov, S. M.) Nikolaĭ Petrovič Sokolov (on his eightieth birthday). (Russian) *Ukrain. Mat. Ž.* 22 (1970), 657-659. (Editors) 42 #4372

Velo, G.

(with Ginibre, J.) Renormalization of a quadratic interaction in the Hamiltonian formalism. *Comm. Math. Phys.* 18 (1970), 65-81. (P. Pascual) 42 #1436

Veloso, Eduardo

Les parties finies sur une variété analytique réelle. *Portugal. Math.* 22 (1963), 93-99. (J. Carmona) 31 #686

Velte, Waldemar

Bemerkung über Randmaxima bei parabolischen Differentialoperatoren. (English and Russian summaries) *Z. Angew. Math. Mech.* 43 (1963), 421-423. (J. Elliott) 31 #3729

Maximumeigenschaften temperaturabhängiger Grenzschichten. (English and Russian summaries) *Z. Angew. Math. Mech.* 43 (1963), 424-428. (D. W. Dunn) 33 #2068

Stabilitätsverhalten and Verzweigung stationärer Lösungen der Navier-Stokesschen Gleichungen. *Arch. Rational Mech. Anal.* 16 (1964), 97-125. (J. V. Wehausen) 31 #6463

(with Görtler, Henry; Kirchgässner, Klaus; Sorger, Peter) Neuere mathematische Ergebnisse sum stationären Randwertproblem der klassischen Hydrodynamik zäher Flüssigkeiten. *Nova Acta Leopoldina (N. F.)* 30 (1965), 23-40. (K. Stewartson) 41 #1281

Stabilität und Verzweigung stationärer Lösungen der Navier-Stokesschen Gleichungen beim Taylorproblem. *Arch. Rational Mech. Anal.* 22 (1966), 1-14. (D. E. Edmunds) 32 #8634

Konvexität der Eigenkurven beim Bénardschen Problem. (English summary) *Z. Angew. Math. Phys.* 20 (1969), 636-641. (Author's summary) 40 #5183 (E)

Korrektur and Nachtrag zu Konvexität der Eigenkurven beim Bénardschen Problem. *Z. Angew. Math. Phys.* 21 (1970), 141. (Editors) 41 #1285

Veltman, M.

(with Berman, Sam M.) Transverse muon polarization in neutrino induced interactions as a test for time reversal violation. *Phys. Lett.* 12 (1964), 275-278. (R. R. Lewis) 33 #2234

(with Prentki, J.) Possibility of CP violation in semi-strong interactions. *Phys. Lett.* 15 (1965), 88-90. (B. d'Espagnat) 32 #7006

van de Ven, A. A. F.

On the boundedness in the mean square of the forced oscillations of linear systems with stochastic coefficients. *Appl. Sci. Res.* 20 (1969), 233-245. (A. Moro) 43 #2317

van de Ven, A. J. H. M.

Holomorphic fields of complex line elements with isolated singularities. *Differential Analysis, Bombay Colloq.,* 1964, *pp.* 251-253. *Oxford Univ. Press, London,* 1964. (Editors) 32 #468

On holomorphic fields of complex line elements with isolated singularities. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 99-130. (Phillip A. Griffiths) 30 #2532

On the Chern numbers of certain complex and almost complex manifolds. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 1624-1627. (K. H. Mayer) 33 #6651

(with Brieskorn, E.) Some complex structures on products of homotopy spheres. *Topology* 7 (1968), 389-393. (W. S. Piper) 38 #1682

Vencel', A. D. See Ventcel', A. D.

Vencelj, Mari

An arc as a topological space. (Slovenian) *Obzornik Mat. Fiz.* 12 (1965), 103-110. (Z. P. Mamuzić) 34 #8366

Vencelj, Marija

* Hiperprostori podkontinuov in zaprtih podmnožic. (Slovenian) [Hyperspaces of subcontinua and closed subsets] Master's thesis. *Prirodoslovno-matematički Fakultet, Zagreb,* 1970. iv + 176 *pp.* (S. Mardešić) 42 #1074

Vencko, J.

On a normal linear Cauchy problem. *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 19 (1968), 27-45. (M. Pinl) 41 #5768

Vendramin, I.

Asymptotic covariant Bjorken's expansion of *T*-products of any number of operators. (Italian and Russian summaries) *Nuovo Cimento A* (10) 65 (1970), 521-534. (P. R. Chernoff) 41 #3038

Venediktov, M. D.

(with Eĭdus, G. S.; Markov, V. V.) Asynchronous address communication systems. (Russian) *Problemy Peredači Informacii* 1 (1965), *vyp.* 4, 3-19. (Editors) 32 #7309

Venet, Luc M.

Note sur un lemme de Kronecker. *Gaz. Mat. (Lisboa)* 27 (1966), *no.* 103-104, 23-24. (Editors) 38 #1433; erratum, 39, p. 1593

Veniaminov, S. S.

A certain method of detection of periodicity. (Russian) *Digital Computer Technology and Programming, No. 5 (Russian)* *pp.* 179-184. *Izdat. "Sovetskoe Radio", Moscow,* 1969. (B. A. Bondarenko) 43 #1465

Veninga, Jaap G.

(with Kaper, Hans G.; Shultis, J. Kenneth) Numerical evaluation of the slab albedo problem solution in one-speed anisotropic transport theory. *J. Computational Phys.* 6 (1970), 288-313. (M. Drăganu) 44 #6218

Venini, Carlo

Principio di equivalenza fra la teoria della relatività generale e quella della relatività ristretta. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 100 (1966), 796-808. (W. Rindler) 35 #5205

Venkatachaliengar, K.

The congruent reduction of a pencil of two skew symmetric matrices over a commutative field of characteristic 2, and the criteria for congruence of two such given pencils. *Math. Student* 33 (1965), 33-35. (Burton W. Jones) 32 #2427

(with Soundararajan, T.) A covering theorem for skew fields. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 441-442. (D. C. Murdoch) 40 #4298

(with Soundararajan, T.) On the Krull Galois theory for non-algebraic extension fields. *Bull. Austral. Math. Soc.* 4 (1971), 367-387. (M. Fried) 43 #4800

Venkatanarasimhan, P. V.

Ideals in semi-lattices. *J. Indian Math. Soc. (N.S.)* 30 (1966), 47-53 (1967). (O. Frink) 35 #1517

A note on modular lattices. *J. Indian Math. Soc. (N.S.)* 30 (1966), 55-59 (1967). (O. Frink) 35# 4131

(with Soundararajan, T.) Topologies for Galois groups of extension fields. *J. Reine Angew. Math.* 242 (1970), 1-7. (N. Sankaran) 42 #4528

Semi-ideals in posets. *Math. Ann.* 185 (1970), 338-348. (P. F. Conrad) 41 #3328

Pseudo-complements in posets. *Proc. Amer. Math. Soc.* 28 (1971), 9-17. (R. J. Bumcrot) 42 #7568

Venkata Narayana, Tadepalli. See Narayana, Tadepalli Venkata.

Venkataraman, K. N.

A note on the least square estimators of the parameters of a second order linear stochastic difference equation. *Calcutta Statist. Assoc. Bull.* 16 (1967), 15-28. (E. J. Hannan) 35 #7544

Limit theorems on certain nonstationary linear stochastic models and their statistical applications. *Calcutta Statist. Assoc. Bull.* 17 (1968), 79-114. (T. V. Avadhani) 40 #3669

Some limit theorems on a linear explosive stochastic difference equation with a constant term, and their statistical applications. *Sankhyā Ser. A* 30 (1968), 51-74. (M. B. Woodroofe) 38 #2850

Venkataraman, M.

(with Soundararajan, T.) On the completeness of Galois theories. *J. Austral. Math. Soc.* 5 (1965), 374-379. (H. Schwerdtfeger) 32 #5647

(with Soundararajan, T.) The field structure of the real number system. *J. Austral. Math. Soc.* 7 (1967), 258-262. (J. L. Zemmer) 35 #5427

(See also General topology and its relations to modern analysis and algebra, 43 #5474)

Venkataraman, R.

Natural sums on ordinal numbers. *Indian J. Math.* 7 (1965), 47-59. (RŽMat 1967 #2 A101) 36 #5000

On locally compact abelian groups which are topologically pure in their Bohr compactifications. *Fund. Math.* 69 (1970), 103-107. (B. Schreiber) 42 #6519

(with Sankaran, N.) Existence of ultracomplete immediate extensions for normed modules. *J. Algebra* 15 (1970), 429-442. (C. Lemaire) 41 #6835

Venkataraman, V. K.

(with Shah, B. K.) A note on modified Poisson distribution. *Metron* 22 (1962/63), 27-35. (A. C. Cohen) 31 #5266

Venkatarayudu, T.

Group theory and nuclear spectroscopy. *Math. Student* 32 (1964), 39-43. (K. T. Hecht) 32 #908

* (with Bhagavantam, S.) Theory of groups and its application to physical problems. Reprinting. *Academic Press, New York-London,* 1969. xii + 297 *pp.* (Editors) 42 #390

(with Syamala Devi, V.) Bases for irreducible representations of U_{2n} in the chain $U_{2n} \supset U_n + U_n$. *J. Mathematical Phys.* 11 (1970), 169-173. (J.-L. Calais) 41# 7955

Venkatesan, P. S.

On decomposition of semigroups with zero. *Math. Z.* 92 (1966), 164-174. (M. Yamada) 33 #216

Matrix semigroups over a semigroup with zero. *Math. Ann.* 181 (1969), 60-64. (D. B. McAlister) 39 #4307

Venkatesh, Yedatore V.

On the stability of a linear time-varying system. *IEEE Trans Automatic Control* AC-14 (1969), 426-427. (From the author's summary) 40 #8476

Quadratic Lyapunov functions for linear systems. *Proc. Cambridge Philos. Soc.* 66 (1969), 115-117. (T. Yoshizawa) 39 #1764

Venkatesha Murthy, M. K. See Murthy, M. K. Venkatesha.

Venkateswara Rao, N. See Rao, N. Venkateswara.

Venkatraman, B.

(with Sankaranarayanan, R.) Collapse loads of orthotropic cylindrical shells under radial pressures. *J. Franklin Inst.* 278 (1964), 183-194. (Authors' summary) 29 #3046

(with Hodge, P. G., Jr.) A further note on the creep behaviour of circular plates. *J. Mech. Phys. Solids* 12 (1964), 191-197. (Authors' summary) 30 #1677

Venken, Jacques

Non effectivité de la descente de modules plats par un morphisme fini d'anneaux locaux artiniens. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1553-A1554. (B. Corbas) 44 #6694

Venkov, B. A.

(with Venkov, B. B.) Normal triangulations of a convex cone. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 367-396. (W. T. van Est) 30 #2402

* Elementary number theory. Translated from the Russian and edited by Helen Alderson. *Wolters-Noordhoff Publishing, Groningen,* 1970. ix + 249 *pp.* (Editors) 42 #178

Venkov, B. B.

(with Venkov, B. A.) Normal triangulations of a convex cone. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 367-396. (W. T. van Est) 30 #2402

On homologies of groups of units in division algebras. (Russian) *Trudy Mat. Inst. Steklov.* 80 (1965), 66-89. (S. Moran) 34 #1379

On the restriction homomorphisms in cohomologies of finite groups. (Russian) *Trudy Mat. Inst. Steklov.* 80 (1965), 90-97. (S. Moran) 33 #7391

Simply-connected analytic surfaces. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 59-61. *Izdat. "Nauka", Moscow,* 1966. (L. Zippin) 34 #8413

Homological algebra. (Russian) *Algebra* 1964 *(Russian), pp.* 203-235. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. (J. R. Isbell) 36 #2669

Venne, Marc

Langues et théories d'ordres supérieurs. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1142-A1143. (Robert R. Korfhage) 33 #7241

Algèbres polyadiques d'ordres supérieurs. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1236-A1238. (Robert R. Korfhage) 34 #2443

Représentation des algèbres polyadiques d'ordres supérieurs. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1293-A1294. (Robert R. Korfhage) 34 #2444

Ultraproduits de structures d'ordres supérieurs. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A305-A308. (L. D. Kugler) 37 #47

Ventadoux, Madeleine

(with Liardet, Pierre) Transformations rationnelles laissant stables certains ensembles de nombres algébriques. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A181-A183. (S. Chowla) 39 #6855

Ventcel′, A. D.

Local behavior of the trajectories of a diffusion process. (Russian) *Proc. All-Union Conf. Theory Prob. and Math. Statist. (Erevan, 1958) (Russian), pp.* 236-238. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1960. (H. P. McKean, Jr.) 32 #3135

On functions continuous along trajectories of a Wiener process. (Russian. German summary) *Teor. Verojatnost. i Primenen.* 10 (1965) 730-733. (Author's summary) 32 #8409

The absolute continuity of the transition probabilities of a multidimensional generalized Brownian motion. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 3-16. (J. L. Denny) 37 #2322

(with Freĭdlin, M. I.) Small random perturbations of a dynamical system with stable equilibrium position. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 506-509. (Petr Mandl) 40 #3036

(with Freĭdlin, M. I.) The limiting behavior of the invariant measure under small perturbations of a dynamical system. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 13-16. (D. Kölzow) 40 #4585

(with Freĭdlin, M. I.) The motion of a diffusing particle against the flow. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 5 (149), 229-230. (L. A. Shepp) 41 #9353

(with Freĭdlin, M. I.) Small random perturbations of dynamical systems. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 3-55. (J. Carkovs) 42 #2123

Ventcel', E. S.

* Введение в исследование операций. (Russian) [Introduction to operations research] *Izdat. "Sovetskoe Radio", Moscow,* 1964. 388 *pp. (1 table)* (Editors) 31 #4611

* Oyunlar teorisine giris. (Turkish) [Elements of game theory] Translated by Halil Yüksel. Turkish Mathematical Society Publications, No. 27. *Türk Matematik Derneği, Istanbul,* 1965. vii + 82 *pp.* (Editors) 37 #5033

* Теория вероятностей [Probability theory]. *Izdat. "Nauka", Moscow,* 1969. 366 *pp.* (Editors) 39 #3537

Ventcel', T. D.

Some quasi-linear parabolic systems with increasing coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 140 (1961), 284-286. (R. K. Juberg) 29 #1451

(with Vvedenskaja, N. D.) Some remarks on quasi-linear parabolic systems. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 287-291. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (S. Itô) 34 #6330

An a priori estimate for solutions of some quasilinear parabolic systems. I. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 3, 27-31. (K. Rektorys) 35 #3221

An a priori estimate for solutions of some quasilinear parabolic systems. II. (Russian. Lnglish summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 6, 94-99. (P. C. Fife) 36 #6768

Interpolation functions. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 5, 57-65. (A. Lupaş) 41 #9052

Venter, J. H.

On Dvoretzky stochastic approximation theorems. *Ann. Math. Statist.* 37 (1966), 1534-1544. (J. Wolfowitz) 34 #3634

An extension of the Robbins-Monro procedure. *Ann. Math. Statist.* 38 (1967), 181-190. (J. R. Blum) 34 #5225

On convergence of the Kiefer-Wolfowitz approximation procedure. *Ann. Math. Statist.* 38 (1967), 1031-1036. (J. Wolfowitz) 35 #5046

On estimation of the mode. *Ann. Math. Statist.* 38 (1967), 1446-1455. (S. Blumenthal) 35 #7527

Probability measures on product spaces. *South African Statist. J.* 1 (1967), 3-20. (A. Fuchs) 42 #1169

(with Swanepoel, J. W. H.) Some properties of birth and death processes. *South African Statist. J.* 5 (1971), 15-25. 44 #3398

Venti, Richard J.

Linear normal forms of differential equations. *J. Differential Equations* 2 (1966), 182-194. (B. Porter) 32 #5956

On the existence of C^k solutions to Briot-Bouquet systems. *J. Differential Equations* 3 (1967), 282-285. (B. Porter) 34 #4586

Ventsell, E. S. See Ventcel', E. S.

Venttsel', A. D. See Ventcel', A. D.

Ventura, E.

(See Dantzig, George B., 34 #8803)

Ventura, Gerardo L.

(with Cicala, Placido) Stati di tensione nei pannelli paraboloidici sottili poco svergolati. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 97 (1962/63), 1205-1222. (Authors' summary) 29 #1815

Venturi, G.

(with Ferretti, B.) On the possibility of a neutrino theory of light. (Italian summary) *Nuovo Comento* (10) 35 (1965), 644-650. (E. L. Hill) 32 #3474

Meromorphic mathematically dual amplitudes with fermions. (Italian and Russian summaries) *Nuovo Cimento A* (11) 1 (1971), 759-776. (Virendra Singh) 43 #2935

Ventzel, E. S. See Ventcel', E. S.

Ventzell, T. D. See Ventcel', T. D.

Venugopala Rao, J. V.

(with Gayen, A. K.) Prediction region for the mean values of several predictions of a dependent variable. *J. Mathematical and Physical Sci.* 2 (1968), 389-398. 42 #8642

Venugopal Rao, V.

(with Sharma, P. L.) On the harmonic summability of Fourier series. *Ann. Mat. Pura Appl.* (4) 74 (1966), 203-226. (S. Izumi) 34 #4813

(with Sharma, P. L.) On the logarithmic *(L)* mean of the conjugate Fourier series and its differentiated series. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 11-20. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (J. Bryant) 37 #5602

} (with Sharma, P. L.) On the strong *(L)* summability of the derived Fourier series and its conjugate series. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April* 1, 1970*), pp.*17-25. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (H. P. Dikshit) 43 #6657

Averages involving Fourier coeficients of non-analytic automorphic forms. *Canad. Math. Bull.* 13 (1970), 187-198. (H. Jacquet) 42 #201; erratum, 42 p. 1825

Convergence criteria for Fourier series. *Bull. Austral. Math. Soc.* 4 (1971), 259-262. (K. Chandrasekharan) 43 #7848

Vephvadze, T. V.

On certain Liouville formulae. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 40 (1965), 279-286. (Editors) 33 #99

On a formula of Ja. V. Uspenskiĭ. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 46 (1967), 301-308. (S. Chowla) 35 #4157

The representation of numbers by positive Gaussian binary quadratic forms. (Russian. Georgian and English summaries) *Sakharth. SSR Mech. Akad. Moambe* 56 (1969), 277-280. (L. A. Kogan) 42 #7594

The representation of numbers by positive binary quadratic forms with odd discriminant. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 58 (1970), 29-32. (T. T. Tonkov) 42 #5908

Verbanov, S. A.

The convergence of S. N. Bernšteĭn's mean interpolation process in the complex domain. (Russian) *Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.* 30 (1966), 74-85. (J. T. Scheick) 40 #378

An example of the construction of a polynomial which deviates least from zero on a closed interval and whose coefficients satisfy a certain linear relation. (Russian) *Vologod. i Čerepovec. Gos. Ped. Inst. Učen. Zap.* 30 (1966), 86-94. (J. T. Scheick) 40 #613

Investigation of an averaged interpolation process of S. N. Bernšteĭn in the complex domain. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 1242-1244. (P. C. Sikkema) 35 #3325

Some properties of generalized polynomials of degree $\leq n$ which deviate least from zero on a finite interval. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 180-192. (S. Marcus) 37 #3258

An investigation of S. N. Bernšteĭn's averaged interpolation process in a closed region. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 5 (72), 26-29. (C. de Boor) 38 #4696

Linear polynomial operations in a complex region. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 13, 10-20. (P. C. Sikkema) 39 #460

Averaged interpolation processes. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 19, 13-17. (A. B. Németh) 43 #5040

Verbeeck, Paul

Rational approximations for exponential integrals $E_n(x)$. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 1064-1072. (A. Magnus) 44 #691

Verbeek, A.

(with de Groot, J.; Jensen, G. A.) Superextensions. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-017, 33 *pp.* (H. Herrlich) 40 #6508

Verbeek, Leo Antonius Marie

Pseudo-variety separability of subsets of a monoid, with applications to finite automata. *Automata Theory, pp.* 325-333. *Academic Press, New York,* 1966. (S. Huzino) 36 #7443

Congruence separation of subsets of a monoid with applications to automata. *Math. Systems Theory* 1 (1967), 315-324. (R. M. Baer) 36 #6235

* Semigroup extensions. (Dutch summary) Doctoral dissertation, Technical University of Delft. *Technische Hogeschool te Delft, Delft,* 1968. 77 + 3 *loose pp.* (Donald W. Miller) 39 #7014

Union extensions of semigroups. *Trans. Amer. Math. Soc.* 150 (1970), 409-423. (J. L. Chrislock) 42 #3209

Verbeek-Kroonenberg, Albert

A remark on intersections. (Dutch) *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1970, ZW-005, iii + 26 *pp.* (E. Michael) 42 #84

Minimal cotopologies. *Nieuw Arch. Wisk.* (3) 18 (1970), 162-164. (G. E. Strecker) 42 #1047

Verbeure, André

(with Balslev, Erik) States on Clifford algebras. *Comm. Math. Phys.* 7 (1968), 55-76. (H. Araki) 37 #5012

(with Manuceau, J.) Quasi-free states of the C.C.R.—algebra and Bogoliubov transformations. *Comm. Math. Phys.* 9 (1968), 293-302. (J.-P. Antoine) 38 #6812

(with Manuceau, Jérôme) États quasi libres. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), B32-B33. (M. E. Mayer) 38 #902

(with Balslev, E.; Manuceau, J.) Representations of anticommutation relations and Bogolioubov transformations. *Comm. Math. Phys.* 8 (1968), 315-326. (R. F. Stora) 40 #6860

(with Naudts, J.) A remark on the even CAR algebra. *Ann. Soc. Sci. Bruxelles Sér. I* 84 (1970), 204-206. (J. R. Klauder) 42 #5556

(with van Daele, A.) Unitary equivalence of Fock representations on the Weyl algebra. *Comm. Math. Phys.* 20 (1971), 268-278. (H. Ezawa) 44 #3619

Verbickaja, I. N.

Conditions of applicability to stationary processes in the wide sense of the strong law of large numbers. (Russian. French summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 358-365. (Petr Mandl) 29 #2866

Conditions for the applicability of the strengthened law of large numbers to processes stationary in the wide sense. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 715-720. (L. A. Shepp) 34 #6874

Verbickiĭ, I. L.

Estimate of the remainder term in the Kronecker-Weyl approximation theorem. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 5 (1967), 84-98. (F. Schweiger) 37 #163

Verblunsky, S.

A uniqueness theorem for exponential series. *J. London Math. Soc.* 39 (1964), 65-71. (M. V. Subbarao) 29 #2661

On a class of infinite products. *Proc. Cambridge Philos. Soc.* 60 (1964), 847-854. (H. Kober) 30 #4948

On some biorthogonal systems. II. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 1-8. (M. V. Subbarao) 30 #2335

On the stability of the set of exponents of a Cauchy exponential series. *Pacific J. Math.* 16 (1966), 175-188. (S. M. Shah) 32 #5890

On a class of integral operators. II. *Proc. London Math. Soc.* (3) 16 (1966), 456-472. (F. Smithies) 35 #3391

On a class of biorthogonal expansions. *Rend. Circ. Mat. Palermo* (2) 15 (1966), 5-26. (M. V. Subbarao) 38 #6299

On a class of integral operators. III. *Indian J. Math.* 9 (1967), 547-562 (1968). (F. Smithies) 41 #4172

On a class of integral operators. *Proc. Cambridge Philos. Soc.* 63 (1967), 133-138. (F. Smithies) 35 #3390

A further note on a class of integral operators. *Proc. Cambridge Philos. Soc.* 68 (1970), 73-85. (F. Smithies) 41 #6020

On a descriptive definition of Cesàro-Perron integrals. *J. London Math. Soc.* (2) 3 (1971), 326-333. (C. Vinti) 44 #4161

On the Peano derivatives. *Proc. London Math. Soc.* (3) 22 (1971), 313-324. (Chr. Y. Pauc) 44 #2896

Verboven, Edward J.

(with Buyst, L.) The evolution to quantum statistical equilibrium for a simple model. II. A numerical solution. *Physica* 29 (1963), 653-661. (J. K. Percus) 32 #931

(with Emch, Gérard G.; Knops, Hubert J. F.) Breaking of Euclidean symmetry with an application to the theory of crystallization. *J. Mathematical Phys.* 11 (1970), 1655-1668. (A. C. Hurley) 41 #9541

Verch, Joachim

* (with Hahn, Dietrich; Metzdorf, Joachim; Schley, Ulrich) Seven-place tables of the Planck function for the visible spectrum. (Text in English and German) *Friedr. Vieweg & Sohn, Braunschweig; Academic Press, New York-London,* 1964. xxi + 135 *pp.* (John Todd) 29 #5514

Verde, Mario

(with Giovannini, A.) On the Green's functions associated to the Wigner's little group. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1306-1313. (O. W. Greenberg) 32 #3477

(with Ferretti, Ivo) On the unitary representations of the three-dimensional Lorentz group. (Italian summary) *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 103 (1968/69), 905-912. (R. L. Ingraham) 40 #8366

Verdier, Jean-Louis

Le théorème de dualité de Poincaré. *C. R. Acad. Sci. Paris* 256 (1963), 2084-2086. (E. Matlis) 29 #619

(See also Serre, Jean-Piere, 31 #4785 and 34 #1328)

Équivalence essentielle des systèmes projectifs. *C. R. Acad. Sci Paris* 261 (1965), 4950-4953. (P. Jaffard) 32 #7623

Dimension des espaces localement compacts. *C. R. Acad. Sci. Paris* 261 (1965), 5293-5296. (R. L. Knighten) 32 #6449

Faisceaux constructibles sur un espace localement compact. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A12-A15. (R. L. Knighten) 34 #2008

A duality theorem in the etale cohomology of schemes. *Proc. Conf. Local Fields (Driebergen,* 1966*), pp.* 184-198. *Springer, Berlin,* 1967. (E. Abe) 37 #6292

The Lefschetz fixed point formula in etale cohomology. *Proc. Conf. Local Fields (Driebergen,* 1966*), pp.* 199-214. *Springer, Berlin,* 1967. (F. Gherardelli) 39 #4173

(See also Serre, Jean-Pierre, 40 #5704)

Base change for twisted inverse image of coherent sheaves. *Algebraic Geometry (Internat. Colloq., Tata Inst. Fund. Res., Bombay,* 1968*), pp.* 393-408. *Oxford Univ. Press, London,* 1969. (R. L. Knighten) 43 #227

On a theorem of Wilder. *Applications of Categorical Algebra (Proc. Sympos. Pure Math., Vol. XVII, New York,* 1968*), pp.* 184-191. *Amer. Math. Soc., Providence, R. I.,* 1970. (S. Y. Husseini) 42 #2478

Verdier, Peter H.

Relations within sequences of congruential pseudo-random numbers. *J. Res. Nat. Bur. Standards Sect. B* 73B (1969), 41-44. (Author's summary) 39 #1081

(with DiMarzio, Edmund A.) On the mean dimensions of restricted random walks. *J. Res. Nat. Bur. Standards Sect. B* 73B (1969), 45-46. (Authors' summary) 38 #6676

Verdière, Yves Colin de. See Colin de Verdière, Yves.

Verdiev, Ĭ. A.

Regge hypothesis and spin structure of five-point amplitudes. *Nuclear Phys.* 68 (1965), 673-690. (E. Predazzi) 32 #837

(with Kančeli, O. V.; Matinjan, S. G.; Popova, A. M.; Ter-Marirosjan, K. A.) Complex asymptotic expressions for the amplitudes of inelastic processes and singularities in the angular momentum plane. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1700-1714 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1148-1157. (E. Predazzi) 32 #810

(with Agamaliev, A. K.) Complete systems of functions on the hyperboloids and on the cone. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1969, *no.* 2, 116-123. (K. Kumar) 43 #1549

Relativistically invariant expansion of a single-particle helicity state with zero mass. *Jadernaja Fiz.* 9 (1969), 1310-1313 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 764-765. (K. R. Parthasarathy) 41 #3022

(with Agamaliev, A. K.; Atakišiev, N. M.) Invariant decomposition of the solution of the Dirac equation. *Jadernaja Fiz.* 10 (1969), 187-192 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 106-108. (K. J. Le Couteur) 41 #4946

A complete set of functions on a one-sheet hyperboloid. *Jadernaja Fiz.* 10 (1969), 1282-1286 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 726-728. (R. C. Varma) 44 #6242

Verdiev, V. G.

The distribution of *(e)*-points in the case of approximation by polynomials from a Čebyšev system. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 6, 392-398. (J. T. Scheick) 39 #3196

Verdina, Joseph

Dynamic programming and Laplace's equation. (Italian summary) *Atti Fond. Giorgio Ronchi Contrib. Ist. Naz. Ottica* 24 (1969), 781-787. (G. M. Ewing) 41 #6562

On point transformations. *Math. Mag.* 42 (1969), 187-193. (H. Brauner) 40 #3450

* Projective geometry and point transformations. *Allyn and Bacon, Inc., Boston, Mass.,* 1971. xiii + 206 *pp.* (H. W. Guggenheimer) 42 #943

Verdiyev, I. A. See Verdiev, I. A.

Verdonk, J. J.

* Petrus Ramus en de wiskunde. (Dutch) [Petrus Ramus and mathematics] Van Gorcum's Historische Bibliotheek, Nr. 81. *Van Gorcum & Co., Assen,* 1966. x + 455 *pp.* (C. J. Scriba) 36 #4945

Verdooren, L. R.

Representation of ANOVA models with vectors and vector spaces. *Statistica Neerlandica* 23 (1969), 53-65. (E. S. Keeping) 39 #5015

Ver Eecke, Paul

(See Archimedes, 39 #15)

* Les coniques d'Apollonius de Perge. Oeuvres traduites pour la première fois du Grec en Français, avec une introduction et des notes. Nouveau tirage. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1963. li + 656 *pp.* (Editors) 37 #6156

Sur les connexions d'éléments de contact. *Topol. et Géom. Diff. (Sém. C. Ehresmann), Vol.* 5, 70 *pp. Institut H. Poincaré, Paris,* 1963. (W. B. Houston, Jr.) 34 #6691

* Géométrie différentielle. Fasc. I: Calcul des jets. *Sociedade de Matematica, São Paulo,* 1967. ii + 101 *pp.* (C. B. Allendoerfer) 36 #5844

Sur le calcul différentiel dans les espaces non normés. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A720-A723. (R. Bonic) 36 #6935

* Introducción a las conexiones de orden superior. (Spanish. French introduction) [Introduction to higher order connections] *Publicaciones del Departamento de Geometría y Topología, Facultad de Ciencias de Zaragoza,* 1968. iii + 128 *pp. (loose errata)* 180 *pts.* (J. J. Etayo) 38 #6489

Sur les tenseurs de structure d'ordre supérieur d'une *G*-structure. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A874-A876. (V. Guillemin) 37 #5812

(See also Serenus of Antinoë, 39 #2578)

Sur les connexions d'ordre infini. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A281-A283. (J. Bochnak) 40 #2137

Connexions d'ordre infini. *Cahiers Topologie Géom. Différentielle* 11 (1969), 281-321. (J. J. Etayo) 43 #1229

Quelques observations sur le calcul différentiel. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A349-A352. (H. Jarchow) 44 #4519

Vereeke, B. J.

(with Kagiwada, H. H.; Kalaba, R. E.) The invariant imbedding numerical method for Fredholm integral equations with degenerate kernels. *J. Approximation Theory* 1 (1968), 355-364. (Authors' summary) 38 #2971 (with Casti, J.; Kalaba, R.) Invariant imbedding and a class of variational problems. *J. Optimization Theory Appl.* 3 (1969), 81-88. (A. Strauss) 39 #2039

(with Kagiwada, H. H.; Kalaba, R. E.) Invariant imbedding and Fredholm integral equations with displacement kernels on an infinite interval. *Internat. J. Comput. Math.* 2, 221-229 (1970). (W. R. Boland) 44 #1255

ere-Jones, D.

Note on a theorem of Kingman and a theorem of Chung. *Ann. Math. Statist.* 37 (1966), 1844-1846. (J. F. C. Kingman) 34 #2067

Simple stochastic models for the release of quanta of transmitter from a nerve terminal. *Austral. J. Statist.* 8 (1966), 53-63. (J. D. Cowan) 35 #6466

(with Seneta, E.) On quasi-stationary distributions in discrete-time Markov chains with a denumerable infinity of states. *J. Appl. Probability* 3 (1966), 403-434. (Petr Mandl) 34 #6863

Ergodic properties of nonnegative matrices. I. *Pacific J. Math.* 22 (1967), 361-386. (J. R. Dorroh) 35 #4996

The infinite divisibility of a bivariate gamma distribution. *Sankhyā Ser. A* 29 (1967), 421-422. (R. G. Laha) 37 #2291

(with Heathcote, C. R.; Seneta, E.) A refinement of two theorems in the theory of branching processes. (Russian summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 341-346. (K. Dietz) 36 #978

(with Rubin, Herman) Domains of attraction for the subcritical Galton-Watson branching process. *J. Appl. Probability* 5 (1968), 216-219. (K. Dietz) 37 #3658

Some applications of probability generating functionals to the study of input-output streams. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 321-333. (L. Takács) 39 #3623

Ergodic properties of nonnegative matrices. II. *Pacific J. Math.* 26 (1968), 601-620. (J. R. Dorroh) 38 #5039

(with Seneta, E.) On the asymptotic behaviour of subcritical branching processes with continuous state space. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 212-225. (H. Kesten) 39 #1024

Some limit theorems for evanescent processes. *Austral. J. Statist.* 11 (1969), 67-78. (S. M. Samuels) 41 #7770

(with Seneta, E.) On a problem of M. Jiřina concerning continuous state branching processes. *Czechoslovak Math. J.* 19(94) (1969), 277-283. (H. Kesten) 39 #7683

Stochastic models for earthquake occurrence. (With discussion) *J. Roy. Statist. Soc. Ser. B* 32 (1970), 1-62. (K. B. Athreya) 42 #6968

(with Fahady, K. S.; Quine, M. P.) Heavy traffic approximations for the Galton-Watson process. *Advances in Appl. Probability* 3 (1971), 282-300. (D. J. Daley) 44 #6053

Finite bivariate distributions and semigroups of non-negative matrices. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 247-270. (R. Merris) 44 #6730

erenič, Ī. Ī.

(with Īvasišen, S. D.) The Green's matrix of general homogeneous parabolic boundary value problems in noncylindrical domains. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 1063-1066, 1148. (Authors' summary) 44 #643

Verenov, M. G. Hudaĭ. See Hudaĭ-Verenov, M. G.

Vereskov, A. I.

A certain optimal planning problem under conditions of indeterminacy. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 783-791. (S. Žak (RŽMat 1969 #4 V409)) 43 #1636

(with Arbuzova, N. I.; Nikolaeva, N. D.) Certain problems of stochastic programming (a survey). (Russian) *Èkonom. i Mat. Metody* 5 (1969), 412-430. (Authors' introduction) 44 #3698

Veresova, E. E.

A pair of multidimensional surfaces which lie in pointwise asymptotic correspondence. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 55-66. (I. Vaisman) 40 #6414

Veretennikov, V. G.

An investigation of forced vibrations of a nonlinear system with two degrees of freedom. (Russian. English summary) *Trudy Univ. Družby Narod.* 15 (1966), *vyp.* 3, 152-165. (J. M. Skowroński) 34 #6216

Stability of motion in the case of three pairs of purely imaginary roots. (Russian. English summary) *Trudy Univ. Družby Narod.* 15 (1966), *vyp.* 3, 166-179. (R. Reissig) 35 #1886

(with Galiullin, A. S.; Gorbatenko, S. A.; Kunitsyn, A. L.) A survey of scientific papers by G. V. Kamenkov. *Prikl. Mat. Meh.* 31 (1967), 5-14 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 3-13. 35 #6517

On the stability of almost-periodic motions. *Prikl. Mat. Meh.* 32 (1968), 114-117 *(Russian); translated as J. Appl. Math. Mech.* 32 (1968), 103-106. (J. W. Heidel) 38 #6160

On the construction of solutions of quasilinear nonautonomous systems in resonance cases. *Prikl. Mat. Meh.* 33 (1969), 1126-1134 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 1090-1099 (1970). (A. de Castro Brzezicki) 42 #2108

Vergara Anderson, Luis

Mathematical analysis of a strategy to be used when playing roulette and other similar games of chance. (Spanish) *Rev. Mat.* (2) *No.* 8 (1970), 21-29. (M. Iosifescu) 44 #1451

Vergara Caffarelli, Giorgio

Su un problema al contorno con vincoli per operatori differenziali ordinari. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 566-584. (A. G. Kartsatos) 42 #4809

Vergison, E.

(with Delbaen, F.) A note on selections. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 55 (1969), 682-686. (R. E. Smithson) 40 #8027

Sur un problème de Pontryagin. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 56 (1970), 492-504. (L. Cesari) 43 #1016

las Vergnas, Michel. See Las Vergnas, Michel.

Vergne, Michèle

Réductibilité de la variété des algèbres de Lie nilpotentes. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A4-A6. (E. J. Taft) 33 #7386

Cohomologie des algèbres de Lie nilpotentes. Application à l'étude de la variété des algèbres de Lie nilpotentes. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A867-A870. (C. R. Curjel) 39 #6938

(with Duflo, Michel) Une propriété de la représentation coadjointe d'une algèbre de Lie. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A583-A585. (N. R. Wallach) 39 #6935

La structure de Poisson sur l'algèbre symétrique d'une algèbre de Lie nilpotente. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A950-A952. (N. R. Wallach) 41 #6922

Étude de certaines représentations induites d'un groupe de Lie résoluble exponentiel. *Ann. Sci. École Norm. Sup.* (4) 3 (1970), 353-384. (R. Steinberg) 43 #4966

Cohomologie des algèbres de Lie nilpotentes. Application à l'étude de la variété des algèbres de Lie nilpotentes. *Bull. Soc. Math. France* 98 (1970), 81-116. (W. T. van Est) 44 #6797

Construction de sous-algèbres subordonnées à un élément du dual d'une algèbre de Lie résoluble. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A173-A175. (H. Heineken) 40 #7323

Construction de sous-algèbres subordonnées à un élément du dual d'une algèbre de Lie résoluble. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A704-A707. (H. Heineken) 41 #288

Sous-algèbres subordonnées à un élément du dual d'une algèbre de Lie résoluble exponentielle. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1405-A1407. (J. Hano) 41 #7032

(with Conze, Nicole) Idéaux primitifs des algèbres enveloppantes des algèbres de Lie résolubles. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A985-A988. (E. J. Taft) 44 #1705

Verhagen, A. M. W.

The "caution-level" in multiple tests of significance. *Austral. J. Statist.* 5 (1963), 41-48. (Z. W. Birnbaum) 32 #554

* The notion of induced probability in statistical inference. Division of Mathematical Statistics Technical Paper No. 21. *Commonwealth Scientific and Industrial Research Organization, Melbourne*, 1966. 54 *pp.* (R. J. Buehler) 36 #4693

Random size trees on the one and two dimensional integer lattice. *J. Appl. Probability* 6 (1969), 301-308. (E. A. Robinson) 40 #5033

Verhey, Roger F.

(with Marx, Morris L.) Interior and polynomial extensions of immersed circles. *Proc. Amer. Math. Soc.* 24 (1970), 41-49. (P. T. Church) 40 #5879

Diffeomorphic invariants of immersed circles. *Trans. Amer. Math. Soc.* 163 (1972), 47-63. (P. T. Church) 44 #3336

Verhoeff, J.

* Error detecting decimal codes. Mathematical Centre Tracts, No. 29. *Mathematisch Centrum, Amsterdam*, 1969. iv + 118 *pp.* (R. Alter) 41 #1426

Verhovskiĭ, B. S.

Multidimensional transportation type problems in linear programming. *Dokl. Akad. Nauk SSSR* 151 (1963), 515-518 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 655-657. (P. L. Ivănescu) 29 #1067

Distribution of a non-homogeneous production allowing for conversion at intermediate points. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 17-20. (P. L. Ivănescu) 29 #3259

The existence of a solution to a many-index problem in linear programming. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 763-766. (P. L. Ivănescu) 29 #6934

Stochastic problems of projecting irrigation systems. (Russian) *Èkonom. i Mat. Metody* 6 (1970), 443-453. (M. Sonis) 43 #8357

Verjovsky, Alberto

Flows with cross sections. *Proc. Nat. Acad. Sci. U.S.A.* 66 (1970), 1154-1156. (J. Sotomayor) 42 #3813

Verkhovskii, B. S. See Verhovskiĭ, B. S.

Verlan', A. F.

A method of simulating differential equations along with the boundary conditions on analog computers. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 451-453. (Author's summary) 29 #1745

Determination of the frequencies of eigenvalues of vibrations on a computer. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 733-735. 29 #3025

Verlet, Loup

(with Levesque, Dominique) On the theory of classical fluids. II. (French summary) *Physica* 28 (1962), 1124-1142. (Authors' summary) 29 #830

(with Levesque, D.) Integral equation for classical fluids and the lattice gas. *Phys. Lett.* 11 (1964), 36-37. (O. Penrose) 32 #953

On the theory of classical fluids. III. *Physica* 30 (1964), 95-104. (G. R. Stell) 29 #5588

On the theory of classical fluids. IV. *Physica* 31 (1965), 959-966. (G. R. Stell) 32 #8941

On the theory of classical fluids. V. (French summary) *Physica* 32 (1966), 304-321. (G. R. Stell) 34 #2310

Verley, Jean-Luc

* Théorie élémentaire de l'intégration (avec 60 exercices). Deuxième édition. "Les Cours de Sorbonne". *Centre de Documentation Universitaire, Paris,* 1968. i + 185 *pp.* (H. Burkill) 41 #7052

Verloren van Themaat, W. A.

* Räumliche Vorstellung und mathematisches Erkenntnisvermögen. Erster Band. (Esperanto, English and Dutch summaries for both volumes) *D. Reidel, Dordrecht,* 1963. x + 131 *pp. (loose errata)* (Walter Oberschelp) 38 #3103a

* Räumliche Vorstellung und mathematisches Erkenntnisvermögen. Zweiter Band. *D. Reidel, Dordrecht,* 1967. ix + 59 *pp.* (Walter Oberschelp) 38 #3103b

Verma, A. K. See Varma, A. K.

Verma, Arun

Integration of bilateral hypergeometric series with respect to their parameters. *J. London Math. Soc.* 39 (1964), 673-684. (L. J. Slater) 29 #4924

Series involving products of two *E*-functions. *Proc. Glasgow Math. Assoc.* 6, 172-176 (1964). (W. A. Al-Salam) 29 #4925

Integration of *E*-functions with respect to their parameters. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 9(57) (1965), 343-349 (1966). (R. A. Askey) 35 #4481

A note on the evaluation of certain integrals involving *G*-functions. *Gaṇita* 16 (1965), 51-54. (R. K. Saxena) 34 #4557

Certain expansions involving Meijer's *G*-functions. *Gaṇita* 17 (1966), 118-126. (H. M. Srivastava) 37 #4294

Certain expansions of the basic hypergeometric functions. *Math. Comp.* 20 (1966), 151-157. (R. G. Langebartel) 33 #7587

Expansions involving hypergeometric functions of two variables. *Math. Comp.* 20 (1966), 590-596. (Y. L. Luke) 34 #2956

On integration of Meijer's *G*-functions. *Bull. Calcutta Math. Soc.* 59 (1967), 67-72. (R. K. Saxena) 41 #2073

Integration of *E*-function with respect to their parameters. II. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), 205-217 (1968). (R. A. Askey) 37 #3064

A note on expansions involving Meijer's *G*-functions. *Math. Comp.* 21 (1967), 107-112. (K. M. Saksena) 36 #6663

A note on the summation of the generalised hypergeometric functions. *Math. Comp.* 21 (1967), 232-236. (K. M. Saksena) 36 #6661

(with Agarwal, R. P.) Generalized basic hypergeometric series with unconnected bases. *Proc. Cambridge Philos. Soc.* 63 (1967), 727-734. (L. J. Slater) 35 #3090

(with Agarwal, R. P) Generalized basic hypergeometric series with unconnected bases. II. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 181-192. (L. J. Slater) 35 #5664 (E)

A transformation connecting products of generalised basic hypergeometric functions. *Canad. Math. Bull.* 11 (1968), 241-248. (J. A. Donaldson) 37 #5435

(with Upadhyay, Manjari) Certain transformations of the products of basic bilateral hypergeometric series. *Indian J. Math.* 10 (1968), 59-71. (L. J. Slater) 38 #1296

(with Upadhyay, Manjari) Transformations of products of basic bilateral hypergeometric series. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 155-168. (Authors' summary) 40 #1609

(with Prasad, J.) An analogue of a problem of J. Balázs and P. Turán. III. *Math. Japon.* 14 (1969), 85-99. (A. Sharma) 42 #6466

(with Prasad, J.) Characterisation of some orthogonal polynomials. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 177-180. (H. M. Srivastava) 40 #2936

(with Al-Salam, W. A.) Some orthogonality preserving operators. *Proc. Amer. Math. Soc.* 23 (1969), 136-139. (S. K. Chatterjea) 40 #3153

(with Al-Salam, W. A.) Generalized Sheffer polynomials. *Duke Math. J.* 37 (1970), 361-365. (K. M. Saksena) 41 #7175

(with Agarwal, R. P.) Corrigenda: "Generalized basic hypergeometric series with unconnected bases. II". *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 384. (Editors) 42 #2046

(with Al-Salam, W. A.) Fibonacci numbers and Eulerian polynomials. *Fibonacci Quart.* 9 (1971), *no.* 1, 18-22. (R. Spir 43 #4754

Verma, B. G.

(with Mishra, R. S.) A problem in shock waves. *Tensor (N.* 17 (1966), 53-55. (Authors' summary) 32 #6821

(with Mishra, R. S.) Curvature of attached shock wave in an ideal gas with heat addition. *Tensor (N.S.)* 17 (1966), 74-78. (S. I. Pai) 32 #8647

Verma, C. B. L.

G-function and self-reciprocity. *Proc. Nat. Acad. Sci. Indi Sect. A* 34 (1964), 139-146. (R. K. Saxena) 36 #3077

Some operational images of infinite series involving MacRobert's *E*-function. *Proc. Nat. Acad. Sci. India Sect. A* 34 (1964), 147-156. (B. R. Bhonsle) 36 #2839

Verma, D. P.

A note on the Riemann's zeta function. *Math. Student* 31 (1963), 89-94 (1964). (R. Ayoub) 31 #134

Asymptotic expansion of some series involving the Riemann zeta-function. *Indian J. Math.* 6 (1964), 121-127. (S. Chowla) 31 #2220

Verma, Daya-Nand

(with Solomon, Louis) Sur le corps des quotients de l'algè enveloppante d'une algèbre de Lie. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A985-A986. (G. B. Seligman) 35 #6725

Structure of certain induced representations of complex semisimple Lie algebras. *Bull. Amer. Math. Soc.* 74 (1968), 160-166. (D. J. Winter) 36 #1503 (E)

Errata to: "Structure of certain induced representations of complex semisimple Lie algebras". *Bull. Amer. Math. Soc.* 74 (1968), 628. (Editors) 36 #5182

Verma, Ghasi Ram

(with Lakshmikantham, V.) Several Lyapunov functions and mixed stability. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 11(59) (1967), 219-223 (1968). (T. A. Burton) 37 #3133

(with LaBudde, C. Donald) On the computation of a generalize inverse of a matrix. *Quart. Appl. Math.* 27 (1969), 391-395. (R. P. Tewarson) 40 #6755

Verma, H. K.

First fundamental problem for an infinite elastic plane with a parabolic cut. *J. Sci. Engrg. Res.* 8 (1964), 257-262. (P. P. Teodorescu) 31 #6425

On a two-dimensional mixed boundary-value problem of elastici for an infinite elastic region perforated with a square hole with rounded corners. *J. Sci. Engrg. Res.* 9 (1965), 244-249. (Author' summary) 33 #926

Verma, Jai Prakash

On suboptimal controls. *IEEE Trans. Automatic Control* AC-14 (1969), 101-102. (Author's summary) 40 #3960

(with Varaiya, Pravin P.) Equivalent nonlinear reciprocal networks. *IEEE Trans. Circuit Theory* CT-18 (1971), 214-217. (R. Brayton) 42 #9090

Verma, M. C.

(with Ghosh, M. N.) Simultaneous tests of linear hypotheses and confidence interval estimation. *J. Indian Soc. Agric. Statist.* 15 (1963), 194-212. (M. Katz) 32 #8450

Verma, Manjula

Union Gaussian curvature in Finsler spaces. *Univ. Nac. Tucumán Rev. Ser. A* 19 (1969), 147-150. (R. Behari) 41 #980

Hyper Darboux lines of subspaces of a Finsler space. *Math. Nachr.* 47 (1970), 293-298. (Makoto Matsumoto) 44 #966

On the curvature properties of a hypersurface of a generalize Finsler space. *Indian J. Pure Appl. Math.* 2 (1971), *no.* 1, 95-102. (T. Ohkubo) 43 #2652

(with Sinha, R. S.) Generalised Gauss-Codazzi equations for second of Cartan's curvature tensors for a subspace of a Finsler space. *Tensor (N.S.)* 22 (1971), 321-325. (Makoto Matsumoto) 44 #5908

Verma, Pratibha

(with Verma, Y. K.) The Rayleigh-Taylor instability of a compressible conducting fluid in the presence of a magnetic field. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 309-315. (Authors' summary) 29 #1838

(with Verma, Y. K.) The Rayleigh-Taylor instability of a rotating compressible inviscid fluid. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 316-318. (Authors' summary) 29 #1839

(with Verma, Y. K.) The Rayleigh-Taylor instability of a rotating compressible conducting fluid in the presence of a magneti field. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 319-324. (Authors' summary) 29 #1840 erma, Purushattam D.

Electrical conduction in finitely deformed isotropic materials. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 3-6. (A. C. Pipkin) 29 #6686

Flow of anisotropic fluids between rotating coaxial cones. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 767-773. (A. C. Pipkin) 30 #5651

erma, R. S. See Varma, R. S.

erma, R. U.

Integrals involving Meijer's *G*-functions. *Gaṇita* 16 (1965), 65-68. (R. K. Saxena) 34 #4558

Certain integrals involving the *G*-function of two variables. *Gaṇita* 17 (1966), 43-50. (V. M. Bhise) 37 #1657

On some integrals involving Meijer's *G*-function of two variables. *Proc. Nat. Inst. Sci. India Part A* 32 (1966), 509-515. (Author's summary) 40 #2925

A new generalisation of Laplace transform of two variables. *Gaṇita* 18 (1967), *no.* 1, 8-12. (C. Fox) 38 #498; erratum, 39, p. 1593

On some infinite series of the *G*-function of two variables. *Mat. Vesnik* 4(19) (1967), 265-271. (J. Ławrynowicz) 36 #6664

On an integral transform of two variables. *Nieuw Arch. Wisk.* (3) 15 (1967), 64-68. (B. R. Bhonsle) 35 #7085

A new generalisation of Hankel transform. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 12(60) (1968), *no.* 4, 241-246 (1969). (V. M. Bhise) 40 #7741

On a generalised transform of one variable. *Gaṇita* 19 (1968), *no.* 2, 73-80. (Z. Ditzian) 41 #2315

On summation of Meijer's *G*-function of two variables. *Proc. Nat. Inst. Sci. India Part A* 34 (1968), 224-227. (Author's summary) 40 #1615

A new generalisation of Hankel transform. *Defence Sci. J.* 19 (1969), 199-204. (Author's summary) 41 #4149

On fractional integrals of two variables and a generalisation of the Laplace transformation. *Math. Student* 37 (1969), 143-146. (J. L. Griffith) 42 #3502

On an integral transform and self-reciprocal functions involving two complex variables. *Mat. Vesnik* 6(21) (1969), 269-275. (P. N. Rathie) 40 #7742

A generalised integral transform of two complex variables. *Proc. Nat. Acad. Sci. India Sect. A* 39 (1969), 265-267. (D. Myers) 43 #7877

On self-reciprocal functions in two variables. *Ann. Polon. Math.* 24 (1970/71), 145-148. (D. Myers) 44 #1997

Expansion formula for the *G*-function of two variables. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 16 (1970), 289-291. (V. M. Bhise) 43 #7682

Addition theorem on *G*-function of two variables. *Mat. Vesnik* 7(22) (1970), 165-168. (V. M. Bhise) 41 #7169

Integral involving *G*-function of two variables. II. *C. R. Acad. Bulgare Sci.* 24 (1971), 427-430. (R. K. Saxena) 44 #5524

erma, Sadanand

A note on Euler's ϕ-function. *Math. Mag.* 38 (1965), 208-211. (A. Gloden) 32 #1160

erma, Triloki Nath

On a generalization of Weber's function. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 8 (1965), 89-99 (1966). (Author's summary) 39 #7170

Some elementary properties of generalised Weber transform. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 8 (1965), 125-135. (Author's summary) 39 #7358

On a generalised Weber transform. *J. Sci. Res. Banaras Hindu Univ.* 17 (1966/67), *no.* 1, 23-39. (P. Anandani) 41 #4148

Some properties of a generalisation of Weber's function. *J. Sci. Res. Banaras Hindu Univ.* 17 (1966/67), *no.* 1, 163-182. (B. L. Sharma) 40 #7497

Some integral representations of a generalised Weber transform. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 9 (1966), 157-164. (Author's summary) 41# 754

Convergence theorems and asymptotic properties of a generalised Stieltjes transform. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 12 (1969), 83-91. (R. P. Soni) 43 #7874

Verma, Y. K.

(with Verma, Pratibha) The Rayleigh-Taylor instability of a compressible conducting fluid in the presence of a magnetic field. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 309-315. (Authors' summary) 29 #1838

(with Verma, Pratibha) The Rayleigh-Taylor instability of a rotating compressible inviscid fluid. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 316-318. (Authors' summary) 29 #1839

(with Verma, Pratibha) The Rayleigh-Taylor instability of a rotating compressible conducting fluid in the presence of a magnetic field. *Proc. Nat. Inst. Sci. India Part A* 29 (1963), 319-324. (Authors' summary) 29 #1840

Vermani, L. R.

An exact sequence and a theorem of Gaschütz, Neubüser and Yen on the multiplicator. *J. London Math. Soc.* (2) 1 (1969), 95-100. (A. Babakhanian) 39 #5699

On polynomial groups. *Proc. Cambridge Philos. Soc.* 68 (1970), 285-289. (K. Honda) 42 #1895

Vermes, E.

Rein geometrischer Beweis eines Satzes von N. M. Nestorovič. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 99-107. (F. A. Sherk) 30 #5195

Vermes, Imre

Über die Schnittpunkte von Geraden und Zyklen in der hyperbolischen Geometrie. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 61-80. (R. Lingenberg) 39 #3382

Vermes, Pál

The group of both row- and column-finite infinite matrices. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 89-90. (M. J. Wonenburger) 31 #1261b

Linear independence in basic sets of polynomials. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 9 (1966), 15-18. (M. J. Wonenburger) 34 #7546

(with Choudhary, B.) Semi-translative summability methods. *Studia Sci. Math. Hungar.* 1 (1966), 403-410. (G. M. Petersen) 34 #4753

Some infinite systems of linear equations in statistics. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 17-24. (B. E. Rhoades) 39 #4552

Richard George Cooke. *J. London Math. Soc.* 42 (1967), 553-558. (Editors) 35 #2712

Note on Tauberian constants. *Publ. Math. Debrecen* 15 (1968), 203-209. (W. Biegert) 38 #4855

(See also Kuttner, B., 40 #9 and Smith, C. B., 42 #2922)

Vermes, Robert

On Wronskians whose elements are orthogonal polynomials. *Proc. Amer. Math. Soc.* 15 (1964), 124-126. (S. Karlin) 29 #1491

On the zeros of a linear combination of polynomials. *Pacific J. Math.* 19 (1966), 553-559. (Z. Rubinstein) 34 #2840

On polynomials whose coefficients satisfy linear equations. *Nieuw Arch. Wisk.* (3) 16 (1968), 5-11. (M. Marden) 38 #306

Hankel determinants formed from successive derivatives. *Duke Math. J.* 37 (1970), 255-259. (B. R. Bhonsle) 41 #3843

Verna, Iolanda

Una particolare formula di quadratura su un intervallo infinito. (English summary) *Matematiche (Catania)* 24 (1969), 305-312. (V. Pereyra) 42 #5452

(with Morelli, Andreina) Formula di quadratura in cui compaiono i valori della funzione e delle derivate con ordine massimo variabile da nodo a nodo. (English summary) *Rend. Circ. Mat. Palermo* (2) 18 (1969), 91-98. (V. Pereyra) 43 #5722

Formule di quadratura gaussiana su intervalli infiniti. (English summary) *Rend. Mat.* (6) 2 (1969), 409-424. (V. Pereyra) 40 #8263

Verner, A. L.

A semi-geodesic coordinate net on tubes of non-positive curvature. (Russian) *Trudy Mat. Inst. Steklov.* 76 (1965), 130-140. (R. Pimenov (RŽMat 1965 #9 A412)) 36 #3293

On a formula for the integral geodesic curvature of a closed two-dimensional band. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 5 (125), 193-197. (A. Urban) 33 #3205

The topological structure of complete surfaces of non-positive curvature with a one-to-one spherical mapping. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 7, 16-29. (A. V. Pogorelov) 38 #2710

Hyperbolic polyhedra. (Russian) *Herzen Lectures, XIX, Math. (Russian, pp.* 12-13. *Leningrad. Gos. Ped. Inst., Leningrad,* 1966. (W. Burau) 37 #812

Polyhedral angles with mutually one-to-one spherical image. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 261-286. (A. V. (Pogorelov) 33 #7910

(with Bakel′man, I. Ja.) The disposition in space of curves with periodic curvature and torsion. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 142-156. (V. Linis) 37 #2097

(with Bakel′man, I. Ja.) The construction, by means of the mean curvature, of a surface with given boundary which has a single-valued non-convex projection. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 157-168. (J. P. Wilson) 37 #3481

The smoothness of a surface which is polar to a smooth surface. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 193-198. (W. J. Firey) 36 #3248

Cones with one-to-one spherical representation. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 44-74. (Z. Nádeník) 36 #7100

(with Nasrulaev, F. S.) Polyhedral bands and the topological structure of hyperbolic polyhedral surfaces with one-to-one spherical representation. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 75-86. (Z. Nádeník) 37 #5835

The outer geometry of the simplest complete surfaces of non-positive curvature. I. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 218-240. (A. V. Pogorelov) 36 #2095

(with Frangulov, S. A.) Total curvature of non-compact two-dimensional manifolds of bounded curvature. (Russian) *Mat. Zametki* 1 (1967), 727-734. (W. J. Firey) 36 #3294

The structure of certain complete surfaces of nonpositive curvature. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 269-272. (C. S. Weaver) 37 #5825

(with Ivanova, T. V.) The area of irregular surfaces in spaces of constant curvature. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 3 (70), 20-27. (J. Král) 37 #4238

The outer geometry of the simplest complete surfaces of non-positive curvature. II. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 112-139. (A. V. Pogorelov) 36 #5872 (E)

Letter to the editors: Correction to the work: "The outer geometry of the simplest complete surfaces of non-positive curvature". (Russian) *Mat. Sb. (N.S.)* 77(119) (1968), 136. (A. V. Pogorelov) 38 #648

Concerning S. Cohn-Vossen's theorem on the integral curvature of complete surfaces. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 199-203. (A. Gray) 38 #2711

(with Oliker, V. I.) A property of the paratingens of a continuous surface, and its applications. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 13, 21-27. (H. Busemann) 38 #2720

A condition for the finite connectedness of complete nonclosed surfaces. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 395 (1970), 100-131. (J. Szenthe) 44 #4693

Two approaches to the classification of complete spherically univalent saddle surfaces. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 395 (1970), 132-159. (J. Szenthe) 44 #4694

Plane sections of tapering surfaces. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 395 (1970), 160-183. (J. Szenthe) 44 #4695

Unboundedness of a hyperbolic horn in Euclidean space. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 20-29. (H. Busemann) 41 #7595

Regularity of oricycles and smoothness of a semigeodesic net on a regular saddle-horn. *Ukrain. Geometr. Sb. Vyp.* 8 (1970), 16-21. (Z. Nádeník) 44 #963

Complete harmonic surfaces with one-to-one spherical representation. (Russian) *Ukrain. Geometr. Sb. Vyp.* 8 (1970), 22-26. (R. Draščić) 43 #8031

Verner, J. H.

(with Bernal, M. J. M.) On generalizations of the theory of consistent orderings for successive over-relaxation methods. *Numer. Math.* 12 (1968), 215-222. (R. F. Albracht) 39 #5049

Implicit methods for implicit differential equations. *Conf. on Numerical Solution of Differential Equations (Dundee, 1969), pp.* 261-266. *Springer, Berlin,* 1969. (Author's summary) 42 #2680

The order of some implicit Runge-Kutta methods. *Numer. Math.* 13 (1969), 14-23. (H. E. Fettis) 39 #6518

Quadratures for implicit differential equations. *SIAM J. Numer. Anal.* 7 (1970), 373-385. (M. Rama Mohana Rao) 42 #8699

Vernikov, M. B.

On a two-dimensional surface in four-dimensional affine-symplectic space. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5 *tetrad′* 2, 10-20 (1965). (L. Tamássy) 33 #4829

Principal directions and fundamental forms of an even-dimensional surface in an even-dimensional affine-symplectic space. (Russian) *Collection Math. Papers, No. I Part* 2 *(Russian), pp.* 45-65. *Čeljabinsk. Gos. Ped. Inst., Chelyabinsk,* 1966. 39 #3411

The curvature of an even-dimensional surface of an affine-symplectic space for an even-dimensional element of area. (Russian) *Collection Math. Papers, No. I, Part* 2 *(Russian), pp.* 66-77. *Čeljabinsk. Gos. Ped. Inst., Chelyabinsk,* 1966. 39 #3412

On the curvature of an even-dimensional surface in an even-dimensional affine-symplectic space. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 3-7. (P. Drăgilă) 35 #6086

A theorem on the curvature of an even-dimensional surface of affine-symplectic space, at a point, in a given $2k$-dimensional direction. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 44-45. (K. Svoboda) 41 #4415

Comparison of the symplectic and affine-normal riggings of a two-dimensional surface in four-dimensional affine-symplectic space. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 88-93. (K. Svoboda) 42 #6736

Vernotte, Pierre

Sur le calcul approché de certains nombres très grands. *Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech. No.* 128, *Paris,* 1963, 89-95. (C. W. Clenshaw) 31 #4149

Sur le calcul effectif de certaines intégrales devenant infinies à l'une des limites d'intégration. *C. R. Acad. Sci. Paris* 259 (1964), 3165-3167. (P. C. Hammer) 30 #5472

Sur la sommation des séries à termes positifs, modérément divergentes. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A827-A830. (J. G. Herriot) 33 #6815

Sommation des séries à termes positifs très fortement divergentes, par une application plus subtile du principe de régularité. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1175-A1177. (J. G. van der Corput) 34 #4752

Sur la sommation des séries asymptotiques de deuxième espèce faiblement divergentes. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1139-A1141. (J. G. Herriot) 35 #5809

Sommation approchée des séries asymptotiques de seconde espèce. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A540-A543. (L. Berg) 36 #6855

Précisions sur la sommation approachée des séries asymptotiq de deuxième espèce faiblement divergentes. *C. R. Acad. Sci. Paris Sér A - B* 265 (1967), A783-A785. (L. Berg) 36 #6856

Remarques sur la sommation approachée des séries asymptotique de deuxième espèce faiblement divergentes. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A357-A359. (L. Berg) 37 #5565

Sur la sommation des séries à termes positifs faiblement divergentes ou très lentements convergentes. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1283-A1285. 39 #3684

À propos de la sommation des séries à termes positifs faiblement divergentes, par une condition de régularité, imposée à un constituant du reste. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A707-A709. 40 #3111

Les difficultés peu connues de l'interpolation. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1073-A1076. 40 #6735

A propos d'une propriété générale des séries divergentes à termes positifs et son application à leur sommation. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A252-A254. 40 #8229

Vernov, Ju. S.

A relation between the asymptotic behaviors of the phase and absolute value of the elastic forward scattering amplitude. *Jadernaja Fiz.* 10 (1969), 176-186 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 100-105. (J. N. Islam) 41 #7961

Véron, Michel

Simulation numérique d'un système linéaire par une formulatio récurrente déduite de la transformation en z. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A100-A102. (E. L. Albasiny) 43 #8224

Verona, Andrei

On some universal fibered spaces. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 919-931. (H. W. Guggenheimer) 35 #2285

Connexions généralisées. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 891-896. (S. Takizawa) 39 #2084

Absolute lift of vector valued forms and connections. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 573-585. (T. Okubo) 39 #7522

Bundles over manifolds of maps and connections. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1097-1112. (H. Osborn) 44 #7597

Propriétés différentielles des ensembles localement fermés. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1269-1279. (E. C. Turner) 44 #2243

A direct elementary proof of the Thom isomorphism theorem. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1553-1555. (J. W. Vick) 43 #8077

Le théorème de de Rham pour les préstratifications abstraites. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A886-A889. (J. N. Mather) 44 #7559

Veronesi, Maria Luisa

Sulla struttura aritmetica dei gruppi finiti con operatori. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 102 (1968), 3-11. (H. Lausch) 38 #3350

Sulla decomposizione dei gruppi finiti risolubili con operatori. *Inst. Lombardo Accad. Sci. Lett. Rend. A* 104 (1970), 106-114. (G. Pic) 43 #7503

Veronis, G.

Motions at subcritical values of the Rayleigh number in a rotating fluid. *J. Fluid Mech.* 24 (1966), 545-554. (P. H. Roberts) 34 #3860

(with Sundqvist, Hilding) A simple finite-difference grid with non-constant intervals. (Russian summary) *Tellus* 22 (1970), 26-31. (Authors' summary) 41 #7869

Verruijt, A.

The completeness of Biot's solution of the coupled thermoelastic problem. *Quart. Appl. Math.* 26 (1968/69), 485-490. (L. E. Payne) 39 #1159

Vershik, A. M. See Veršik, A. M.

Vershubskii, V. Yu. See Veršubskiĭ, V. Ju.

Veršik, A. M.

Some characteristic properties of Gaussian stochastic processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 390-894. (A. T. Bharucha-Reid) 29 #2857

A measurable realization of continuous groups of automorphisms of a unitary ring. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 127-136. (I. Csiszár) 30 #3192

Duality in the theory of measure in linear spaces. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 497-500. (W. R. Transue) 34 #4893

A theorem on the lacunary isomorphism of monotonic sequences of partitionings. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 3, 17-21. (A. Alexiewicz) 39 #2943

The axiomatics of measure theory in linear spaces. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 278-281. (A. Alexiewicz) 39 #1624

(with Temelt, W.) Certain questions on approximation of the optimal value of infinite-dimensional linear programming problems. (Russian) *Sibirsk, Mat. Ž.* 9 (1968), 790-803. (V. F. Dem'janov) 38 #4144

(with Sudakov, V. N.) Probability measures in infinite-dimensional spaces. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 12 (1969), 7-67. (W. R. Transue) 41 #421

(with Juzvinskiĭ, S. A.) Dynamical systems with invariant measure. *Matematičeskiĭ Analiz* 1967 *(Russian), pp.* 133-187; *translated in Progress in Mathematics, Vol.* 8: *Mathematical Analysis, pp.* 151-215. *Plenum, New York,* 1970. (R. L. Adler) 44 #4188

Descending sequences of measurable decompositions, and their applications. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 748-751. (F. Schweiger) 42 #3258

Nonmeasurable decompositions, orbit theory, algebras of operators. *Dokl. Akad. Nauk SSSR* 199 (1971), 1004-1007 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1218-1222. (Mi-Soo Smith) 44 #4537

A continuum of pairwise nonisomorphic dyadic sequences. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 16-18. (F. Schweiger) 43 #7593

eršubskiĭ, V. Ju.

(with Mihelev, V. M.) Algorithms for converting a binary code into a uniform binary code giving an increased data transmission rate. *Problemy Peredači Informacii* 3 (1967), *vyp.* 2, 63-72 *(Russian); translated as Problems of Information Transmission* 3 (1967), *no.* 2, 49-55 (1969). (E. R. Berlekamp) 43 #8439

értesi, Péter

(with Kis, O.) On a new interpolation process. (Russian) *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 117-128. (A. Lupaş) 40 #4656

Proof of the Jackson theorem by interpolation. (Hungarian) *Mat. Lapok* 18 (1967), 83-92. (J. Szabados) 37 #3248

(with Freud, G.) A new proof of A. F. Timan's approximation theorem. *Studia Sci. Math. Hungar.* 2 (1967), 403-414. (Y. Ikebe) 36 #4217

On the divergence of the sequence of linear operators. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 399-408. (A. Sharma) 40 #7686

Hermite-Fejér interpolation based on the roots of Jacobi polynomials. *Studia Sci. Math. Hungar.* 5 (1970), 395-399. (J. Prasad) 44 #4432

Lower estimations for some interpolating processes. *Studia Sci. Math. Hungar.* 5 (1970), 401-410. (R. Franke) 44 #3054

ertgeĭm, B. A.

Methods of investigating certain optimal processes. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 7-11. (H. A. Antosiewicz) 32 #5412

(with Licyn, N. M.) Optimization of relay control systems for second-order objects with complex roots. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 36-42. (W. M. Wonham) 31 #4691

On the solution of non-linear functional equations. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 160-163. (F. Smithies) 31 #1787

Calculating time-optimal control for linear systems. (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 1963, *no.* 103, 201-204. (W. M. Wonham) 31 #3275

On certain devices for the linearization and approximate solution of nonlinear functional equations. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 686-691. (I. Daugavet (RŽMat 1965 #12 B536)) 36 #7357

(with Rubinšteĭn, G. Š.) The definition of quasi-convex functions. (Russian) *Mathematical Programming (Russian), pp.* 121-134. *Izdat. "Nauka", Moscow,* 1966. (M. Skalsky) 36 #329

Certain nonlinear models of production and consumption. (Russian) *Perm. Gos. Univ. Učen. Zap.* 1966, *no.* 131, 108-110. (M. Popov (RŽMat 1968 #3 V409)) 40 #3891

The approximate determination of fixed points. (Russian) *Optimal. Planirovanie Vyp.* 14 (1969), 28-42. (K. Sieklucki) 44 #6146

The approximate determination of fixed points of continuous mappings. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 9-11. (O. Gürel) 41 #7840

The approximate solution of nonlinear equations as a control process. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 16-19. (P. Brunovsky) 42 #6673

Approximations to fixed points. (Russian) *Optimal. Planirovanie Vyp.* 17 (1970), 32-35. (K. Sieklucki) 44 #6147

Vervaat, W.

(with Runnenburg, J. Th.) Remarks and computations concerning "Poisson-process with interruptions" of J. C. A. Zaat. (Dutch. English summary) *Statistica Neerlandica* 20 (1966), 199-212. (H. Kesten) 35 #7428

Interrupted and extended Poisson process. (Dutch. English summary) *Statistica Neerlandica* 21 (1967), 245-268. (Author's summary) 36 #4658; erratum, 37, p. 1469

Upper bounds for the distance in total variation between the binomial or negative binomial and the Poisson distribution. *Statistica Neerlandica* 23 (1969), 79-86. 39 #3568

(with Runnenburg, J. Th.) Asymptotical independence of the lengths of subintervals of a randomly partitioned interval; a sample from S. Ikeda's work. *Statistica Neerlandica* 23 (1969), 67-77. (W. Uhlmann) 40 #2147

Veržbickiĭ, V. M.

(with Artem'ev, M. I.) On the question of the boundedness of the solutions of differential equations with lag. (Russian) *Krasnodar. Gos. Ped. Inst. Naučn. Trudy Vyp.* 98 (1968), 74-76. (S. P. Hastings) 41 #2165

(with Artem'ev, M. I.; Smolin, Ju. N.; Caljuk, Z. B.) The asymptotic behavior of the solutions of differential equations with retarded argument. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1256-1266. (C. E. Langenhop) 40 #4562

(with Caljuk, Z. B.) A certain approximate method for finding the resolvent. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 214-215. (M. Urabe) 42 #7100

Veržbinskaja, Ju. S.

The choice of coordinate functions in the Ritz method for ordinary differential operators defined on an infinite interval. (Russian) *Metody Vyčisl.* 4 (1967), 3-12. (S. Burýšek) 38 #1839

Veržbinskiĭ, G. M.

On the defect index of the second and third boundary-value problems in a region with piecewise smooth boundary. (Russian. English summary) *Vestnik Leningrad. Univ.* 19 (1964), *no.* 7, 161-162. (L. Cesari) 31 #3704

(with Maz'ja, V. G.) The asymptotics of solutions of the Dirichlet problem near a non-regular frontier. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 498-501. (F. Barański) 37 #3030

(with Maz'ja, V. G.) Asymptotic behavior of the solutions of second order elliptic equations near the boundary. I. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 1217-1249. (H. Triebel) 44 #7106

Vescan, Agneta

Algebra of spinors. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 10 (1964), 269-280. (Author's summary) 32 #1632

* Sumabilitatea seriilor. (Romanian) [Summability of series] *Editura Tehnică, Bucharest,* 1965. 111 *pp.* (E. P. Merkes) 32 #7995

Contributions to the study of algebraic properties of spinors. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11 (1965), 1-11. 33 #1806

New properties of the algebra of spinors. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 12 (1966), 11-17. (A. Aeppli) 35 #6710

A class of multidimensional matrices. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 13 (1967), 266-272. (A. S. Householder) 38 #174

Spinor space. (Romanian. French summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 239-244. (J. A. Todd) 41 #9127

Vescovo di Lucca. See Guglielmo, M.°

Veselić, Krešimir

(with Kurepa, Svetozar) Transformation of a matrix to normal forms. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 2(22) (1967), 39-51. (Y. Lehrer-Ilamed) 36 #5151

The nonrelativistic limit of the Dirac equation and the spectral concentration. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 231-241. (J. B. McLeod) 42 #2196

On spectral concentration for some classes of selfadjoint operators. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 213-229. (J. S. Howland) 42 #3612

A spectral theorem for a class of J-normal operators. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 97-102. (P. Rosenthal) 42 #8321

A spectral theory for the Klein-Gordon equation with an external electrostatic potential. *Nuclear Phys.* A147 (1970), 215-224. (A. C. Hurley) 42 #4114

Veselinov, Vasil Mladenov

Approximation of functions by means of trigonometric polynomials with respect to a metric of Hausdorff type. (Russian) *Mathematica (Cluj)* 9(32) (1967), 185-199. (J. Musielak) 36 #1902

Certain estimates of best approximation in the Hausdorff metric by means of algebraic polynomials. (Russian) *C. R. Acad. Bulgare Sci.* 21 (1968), 5-8. (Bl. Sendov) 38 #1450

Approximation of unbounded functions, by means of positive linear operators, relative to the Hausdorff distance. (Russian) *C. R. Acad. Bulgare Sci.* 22 (1969), 499-502. (I. Kolumbán) 40 #4645

(with Baĭnov, D. D.) The convergence of a sequence of positive linear operators to an unbounded function. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 1191-1193. (Bl. Sendov) 43 #6638

The order of approximation of semicontinuous functions by nonlinear positive operators. (Russian) *C. R. Acad. Bulgare Sci.* 24 (1971), 705-708. (G. G. Lorentz) 44 #5671

Veselov, V. M.

The orthogonalization of bases. (Russian) *Mat. Zametki* 6 (1969), 713-724. (E. Asplund) 41 #4224a

The properties of bases after their orthogonalization. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 1416-1436. (A. Wiweger) 43 #2494

Veselovs'ka, O. O.

Integration of Emden-Fowler equation $y'' - ax^{\alpha}y^{n} = 0$. (Ukrainian. Russian summary) *Visnik L'vīv. Polītehn. Īnst. No.* 44 (1970), 94-96, 212. (D. Bobrowski) 44 #4266

Veselovskiĭ, I. N.

(with Vorob'eva, M. G.; Rožanskaja, M. M.) The ancient Khorezm monument Koĭ-Kryglan-kala of the fourth century B. C. from the point of view of the history of astronomy. (Russian) *Istor.-Astronom. Issled. Vyp.* 10 (1969), 15-34. (1 *foldout*) (G. Chogoshvili) 41 #1474

Veselský, Bohumil

On the orthocentral line of a quadrilateral. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 87 (1962), 257-262. (Author's summary) 31 #5126

Veselý, Jiří

On a mixed boundary value problem in the theory of analytic functions. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 91 (1966), 320-336. (J. Král) 34 #6113

(with Štulc, Jiří) Connection of a cyclic and radial variation of a path with its length and bend. (Czech. Loose English summary) *Časopis Pěst. Mat.* 93 (1968), 80-116. (J. Král) 39 #384

On the limits of the potential of the double distribution. (Preliminary communication) *Comment. Math. Univ. Carolinae* 10 (1969), 189-194. (J. H. Curtiss) 40 #2896

Vesentini, Edoardo

(with Andreotti, A.) Un teorema d'annullamento della coomologia. *Univ. e Politec. Torino Rend. Sem. Mat.* 20 (1960/61), 109-114. (P. Dolbeault) 29 #4070

(with Andreotti, A.) On the pseudo-rigidity of Stein manifolds. *Ann. Scuola Norm. Sup. Pisa* (3) 16 (1962), 213-223. (H. Röhrl) 30 #591

(with Andreotti, A.) Les théorèmes fondamentaux de la théorie des espaces holomorphiquement complets. *Topologie et géométrie différentielle (Séminaire C. Ehresmann), Vol. IV* (1962-63), *Cahier* 1, 31 *pp. Institut H. Poincaré, Paris,* 1963. (H. Röhrl) 30 #1519

(with Andreotti, Aldo) Disuguaglianze di Carleman sopra una varietà complessa. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 431-434. (H. Rossi) 29 #6053

(with Andreotti, A.) On deformations of discontinuous groups. *Acta Math.* 112 (1964), 249-298. (A. Morimoto) 29 #6503

(with Andreotti, Aldo) Deformazione di gruppi discontinui. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 25-27. (A. Korányi) 30 #5331

Sulla coomologia delle varietà differenziabili. (English summary) *Rend. Sem. Mat. Fis. Milano* 34 (1964), 19-30. (P. Dolbeault) 30 #3425

(with Andreotti, A.) A remark on non-compact quotients of bounded symmetric domains. *Proc. Conf. Complex Analysis (Minneapolis,* 1964), *pp.* 175-182. *Springer, Berlin,* 1965. (S. Murakami) 30 #5332

(with Andreotti, Aldo) Carleman estimates for the Laplace-Beltrami equation on complex manifolds. *Inst. Hautes Études Sci. Publ. Math. No.* 25 (1965), 81-130. (H. Rossi) 30 #5333 (E)

(with Andreotti, Aldo) Erratum to: Carleman estimates for the Laplace-Beltrami equation on complex manifolds. *Inst. Hautes Études Sci. Publ. Math. No.* 27 (1965), 153-155. (Editors) 32 #465

Remarks on integral inequalities on complex manifolds. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 595-611. (L. Bungart) 35 #7357

* Lectures on Levi convexity of complex manifolds and cohomology vanishing theorems. Notes by M. S. Raghunathan. Tata Institute of Fundamental Research Lectures on Mathematics, No. 39. *Tata Institute of Fundamental Research, Bombay,* 1967. iii + 131 + vi *pp.* (Y.-T. Siu) 38 #342

(See also Geometry of homogeneous bounded domains, 38 #2338)

Rigidity of quotients of bounded symmetric domains. *Proc. Internat. Congr. Math. (Moscow,* 1966), *pp.* 516-526. *Izdat. "Mir", Moscow,* 1968. (Ngô van Quê) 38 #3892

On the subharmonicity of the spectral radius. (Italian summary) *Boll. Un. Mat. Ital.* (4) 1 (1968), 427-429. (R. G. Douglas) 39 #6080

Periodic entire functions and reducible Banach algebras. *Several Complex Variables, I (Proc. Conf., Univ. of Maryland, College Park, Md.,* 1970), *pp.* 203-211. *Springer, Berlin,* 1970. (B. Yood) 42 #3572

Maximum theorems for spectra. *Essays on Topology and Related Topics (Mémoires dédiés à Georges de Rham), pp.* 111-117. *Springer, New York,* 1970. (R. G. Douglas) 42 #6612

Maximum theorems for vector valued holomorphic functions. (Italian summary) *Rend. Sem. Mat. Fis. Milano* 40 (1970), 24-55. (E. O. Thorp) 44 #4506

Vesentini Ottolenghi, Maria Luisa. See Ottolenghi, Maria Luisa. Vesentini.

Vesley, Richard Eugene

* (with Kleene, Stephen Cole) The foundations of intuitionistic mathematics, especially in relation to recursive functions. *North-Holland Publishing Co., Amsterdam,* 1965. viii + 206 *pp.* (G. Kreisel) 31 #1190

(See also Intuitionism and proof theory, 42 #5774)

A palatable substitute for Kripke's schema. *Intuitionism and Proof Theory (Proc. Conf., Buffalo, N. Y.,* 1968), *pp.* 197-207. *North-Holland, Amsterdam,* 1970. (D. Nelson) 44 #5208

Vessey, Theodore A.

Some properties of oricyclic cluster sets. *J. Analyse Math.* 21 (1968), 373-380. (P. Lappan) 39 #2987

Tangential boundary behavior of arbitrary functions. *Math.* 113 (1970), 113-118. (P. Lappan) 41 #7113

On tangential principal cluster sets of normal meromorphic functions. *Nagoya Math. J.* 40 (1970), 133-137. (D. C. Rung) 44 #437

Vestergaard, Preben Dahl

(See Seminar, D. E., 40 #434)

Vesterstrøm, Jørgen

(with Wils, Wilbert) On point realizations of L^{∞}-endomorphisms. *Math. Scand.* 25 (1969), 178-180 (1970). (E. G. Effros) 41 #8629

(with Wils, Wilbert) Direct integrals of Hilbert spaces. II. *Math. Scand.* 26 (1970), 89-102. (H. Halpern) 41 #9011

Quotients of finite W^{*}-algebras. *Bull. Amer. Math. Soc.* 77 (1971), 235-238. (M. Takesaki) 43 #942

Vetchinkin, S. I. See Vetčinkin, S. I.

Vetčinkin, S. I.

Conditions for optimal choice of approximate wavefunctions and the hypervirial theorem. *J. Chem. Phys.* 41 (1964), 1991-1995. (Author's summary) 29 #4522

Veterbi, Andrew J.

On the minimum mean square error resulting from linear filtering of stationary signals in white noise. *IEEE Trans. Information Theory* IT-11 (1965), 594-595. 32 #7321

Vetrov, V. V.

On the question of an interpolation problem of Evgrafov. (Russian) *Orlov. Gos. Ped. Inst. Učen. Zap.* 24 (1964), 42-51. (J. S. Shipman) 35 #5615

Vetter, Udo

Über nicht kontinuierlich operierende komplexe Transformationsgruppen auf komplexen Räumen. *Schr. Math. Inst. Univ. Münster No.* 28 (1964), ii + 50 *pp.* (W. Stoll) 29 #1359

(with Reiffen, Hans-Jörg) Pfaffsche Formen auf komplexen Räumen. *Math. Ann.* 167 (1966), 338-350. (H. Cartan) 35 #6866

* (with Reiffen, Hans-Jörg; Scheja, Günter) Algebra. B. I. Hochschultaschenbücher, Band 110/a. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. 272 *pp.* (O. H. Kegal) 39 #6702; erratum, 40, p. 1706.

Äußere Potenzen von Differentialmoduln reduzierter vollständiger Durchschnitte. (English summary) *Manuscripta Math.* 2 (1970 67-75. (H. Osborn) 42 #255

Vetter, William J.

Derivative operations on matrices. *IEEE Trans. Automatic Control* AC-15 (1970), 241-244. (Author's summary) 42 #7682 (E)

Correction to "Derivative operations on matrices". *IEEE Trans. Automatic Control* AC-16 (1971), 113. (Editors) 44 #4018

Vetters, Klaus

(with Schmidt, Jochen W.) Ableitungsfreie Verfahren für nichtlineare Optimierungsprobleme. (English summary) *Numer. Math.* 15 (1970), 263-282. (G. Owen) 42 #8668

Quadratische Approximationsmethoden zur konvexen Optimierung. (English and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 479-484. (M. Maňas) 42 #2811

Vetuhnovskiĭ, F. Ja.

Coverings and minimal coverings of a graph by a system of neighbourhoods of its vertices. (Russian) *Diskret. Analiz. No.* 3 (1964), 3-24. (J. Bosák) 32 #61

On the coverings of a graph by a system of neighborhoods of its vertices. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 21-24. (J. Bosák) 33 #2574

Problems on coverings of a graph by a system of neighborhoods of its vertices. (Russian) *Problemy Kibernet. No.* 19 (1967), 47-74. (J. Bosák) 37 #3953

Vetukhnovsky, F. J. See Vetuhnovskiĭ, F. Ja.

de Veubeke, Baudouin Fraeijs. See Fraeijs de Veubeke, Baudouin.

everka, Jindřich

On couples of line congruences with the projective connection having Rozenfeld image with the character smaller than 5. *Czechoslovak Math. J.* 19(94) (1969), 534-546. (A. Urban) 41 #9120

exler, A. I. See Veksler, A. I.

ey, Jacques

Une notion d'hyperbolicité sur les variétés localement plates. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A622-A624. (W. Kaup) 38 #5131

Sur la division des domaines de Siegel. *Ann. Sci. École Norm. Sup.* (4) 3 (1970), 479-506. (W. Kaup) 43 #6457

Sur les automorphismes affines des ouverts convexes saillants. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 641-665. (J. L. Koszul) 44 #950

Sur les automorphismes affines des ouverts convexes dans les espaces numériques. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A249-A251. (W. Kaup) 42 #6720

Sur la division des domaines bornés. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1748-A1749. (A. Wyler) 42 #7937

(with Godbillon, Claude) Un invariant des feuilletages de codimension 1. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A92-A95. (F. J. Echarte Reula) 44 #1046

eyo, S. E.

(with Hornbeck, R. W.) The numerical solution of the biharmonic equation using an automatic iterative process. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 704-705. 29 #6647

eyvoda, O. See Vejvoda, Otto.

ezzetti, David J.

(with Rubinow, S. I.) Asymptotic solution of the Schrödinger equation for the three body problem. *Ann. Physics* 35 (1965), 373-395. (David Branson) 32 #6898

(with Siegert, A. J. F.) On the Ising model with long-range interaction. *J. Mathematical Phys.* 9 (1968), 2173-2193. (G. Bandyopadhyay) 40 #6907

(with Jalickee, John B.; Siegert, Arnold J. F.) On fluids of particles with short-range repulsion and weak long-range attractive interaction. *J. Mathematical Phys.* 10 (1969), 1442-1454. (From the authors' summary) 39 #7914

i, Cheng Liu. See Liu, Vi-Cheng.

iallard, M.

* (with Lelong-Ferrand, J.; Combes, F.; Leborgne, D.) Problèmes d'analyse. Maîtrises de mathématiques Cl. Problèmes de Licence et de Maîtrise, No. 6. *Dunod, Paris,* 1967. iv + 385 *pp.* (Editors) 36 #3610

ian, F.

Concatenamento di fattori in ripetizioni frazionate di esperimenti fattoriali con fattori a due e a tre modalità fisse. (English summary) *Calcolo* 4 (1967), 677-749. (D. Vir Chopra) 43 #5667

iano, G. A.

(with Albino, E.; Bertero, M.) An analyticity test in the theory of complex angular momentum. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 1269-1294. (E. Predazzi) 29 #3141

(with Bertero, M.) On the numerical analytic continuation of the proton electromagnetic form factors. *Nuovo Cimento* (10) 38 (1965), 1915-1920. (J. D. Sullivan) 33 #3658

(with Bertero, M.; Talenti, G.) Scattering and bound state solutions for a class of nonlocal potentials (s-wave). *Comm. Math. Phys.* 6 (1967), 128-150. (D. B. Fairlie) 36 #1158

icente Cordoba, Jose Luis

Generalized inductive limit of sets. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 25 (1965), 202-206. (R. P. Hunter) 33 #7262

ich, Robert

* Z-Transformation. Theorie und Anwendung. Theoretische Grundlagen der Technischen Kybernetik. *VEB Verlag Technik, Berlin,* 1964. x + 150 *pp.* (G. Doetsch) 29 #3834

ichik, M. I. See Višik, M. I.

ichmann, F.

Formal multiplication of integrals. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 16 (1967), 45-53. (J. Mařík) 35 #2084

Some theorems on the formal multiplication of improper integrals. (Russian) *Tallin. Polütehn. Inst. Toimetised Seer. A No.* 251 (1967), 31-36. (Editors) 38 #2486a

On the formal multiplication of improper double integrals. (Russian) *Tallin. Polütehn. Inst. Toimetised Seer. A No.* 251 (1967), 37-44. (Editors) 38 #2486b

The summability of infinite products. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 18 (1969), 27-37. *(errata insert)* (H.-H. Körle) 43 #6620

The convergence of infinite products. (Russian) *Izv. Vysš. Ucebn. Zaved. Matematika* 1971, *no.* 1 (104), 21-25. (A. Alexiewicz) 44 #3049

Vichnevetsky, Robert

A new method of analysing the truncation error in the finite difference representation of partial differential operators. *Proc. Third Internat. Analogue Comp. Meetings (Opatija,* 1961*), pp.* 29-36. *Presses Académiques Européennes, Brussels; Gordon & Breach, New York,* 1962. 35 #3917

Use of functional approximation methods in the computer solution of initial value partial differential equation problems. *IEEE Trans. Computers* C-18 (1969), 499-512. (R. Nicolovius) 43 #7086

Viciu, A.

Concerning a generalization of a functional equation of D. Pompeiu--I. I. Stamate. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 10 (1967), 61-70. (P. Drăgilă) 37 #1827

(with Corovei, I.) On a functional equation of Academician T. Popoviciu. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 11 (1968), 57-62. (P. Drăgilă) 41 #5819

Vick, James W.

An application of K-theory to equivariant maps. *Bull. Amer. Math. Soc.* 75 (1969), 1017-1019. (W. Metzler) 39 #6336

Pontryagin duality in K-theory. *Proc. Amer. Math. Soc.* 24 (1970), 611-616. (J. C. Becker) 42 #2479

Vickers, John M.

Some remarks on coherence and subjective probability. *Philos. Sci.* 32 (1965), 32-38. (J. E. Fenstad) 33 #3319

Probability and non standard logics. *Philosophical Problems in Logic. Some Recent Developments, pp.*102-120. *Reidel, Dordrecht,* 1970. (I. Ruzsa) 43 #6958

Vida, J. Torres. See Torres Vida, J.

Vidal, Alberto

(with Oliveira, Colber G.) The second Noether theorem for local field theories. *An. Acad. Brasil. Ci.* 41 (1969), 309-324. (S. Deser) 40 #8365

(with Oliveira, Colber G.) A model field theory in five dimensions. *An. Acad. Brasil. Ci.* 42 (1970), 167-168. (J. Blackman) 43 #1590

Vidal, Enrique

On some problems relating to measure in foliated spaces. (Spanish. French summary) *Colóquio Internacional de Geometría Diferencial (Santiago,* 1963*), pp.* 63-77. *Univ. Santiago, Santiago,* 1964. (L. A. Santaló) 31 #1640

Questions concerning measures in fibered spaces. (Spanish) *Acta Ci. Compostelana* 4 (1967), 179-184. (L. A. Santaló) 40 #6478

On regular foliations. (French summary) *Ann. Inst. Fourier (Grenoble)* 17 (1967), *fasc.* 1, 129-133. (J. W. Smith) 36 #4580

Mesures définies sur les espaces des feuilles d'un feuilletage. *Rend. Circ. Mat. Palermo* (2) 15 (1966), 247-256. (H. Suzuki) 37 #4830

Vidal, Jésus-Marie Tharrats. See Tharrats Vidal, Jésus-Marie.

Vidal, Pierre

Sur la réponse transitoire d'un système non linéaire échantillonné régi par une équation aux différences finies d'ordre m. *C. R. Acad. Sci. Paris* 256 (1963), 5058-5061. (E. K. Blum) 29 #6974

(with Sevely, Yves) Sur la stabilité d'une chaîne de regulation à modulation de largeur des impulsions à partie continue du premier et du deuxième ordres. *C. R. Acad. Sci. Paris* 258 (1964), 3185-3187. (E. A. Robinson) 30 #5862

(with Laurent, François) Sur la stabilité asymptotique d'un système échantillonné non linéaire à partie continue du premier ordre. *C. R. Acad. Sci. Paris* 260 (1965), 2988-2991. (F. J. Beutler) 30 #4620

(with Laurent, François) Sur une condition suffisante d'unicité de la réponse d'un système échantillonné non linéaire à une sollicitation quelconque. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A779-A780. (R. S. Bucy) 35 #7708

* Systèmes échantillonnés non linéaires. (English summary) Théorie des Systèmes, Vol. 1. *Gordon & Breach, Paris-London-New Yoik (distributed by Dunod Editeur, Paris),* 1968. xiv + 363 *pp.* (J. M. Skowroński) 39 #3667

(with Deberghes, Hélène; Toulotte, Jean-Marc; Laurent, François; Deberghes, Daniel) Sur la stabilité asymptotique des systèmes échantillonnés non linéaires soumis à une entrée aléatoire. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A745-A746. (Authors' summary) 39 #3874

(with Bubnicki, Zdzisław; Laurent, François) Stabilité probabiliste des systèmes échantillonnés non linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A951-A952. (F. Kozin) 38 #1935

(with Węgrzyn, Stefan) Sur la stabilité absolue des systèmes non linéaires continus et échantillonnés. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1297-A1299. (Authors' summary) 37 #6127 (with Węgrzyn, Stefan; Gille, Jean-Charles; Palusiński, Olgierd) Stabilité illimitée des systèmes échantillonnés non linéaires dans les espaces métriques. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A418-A421. (Authors' summary) 40 #8477

(with Węgrzyn, Stefan; Gille, Jean-Charles; Palusiński, Olgierd) Stabilité limitée des systèmes échantillonnés non linéaires dans les espaces métriques. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A490-A492. (Authors' summary) 40 #8478

Vidal, Robert

Sur les catégories abéliennes localement artiniennes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1293-A1296. (J.-P. Lafon) 43 #7486

Sur les complétés d'anneaux pour la filtration du radical de Jacobson. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1638-A1641. (J.-P. Lafon) 44 #1702

Quelques propriétés des modules de type quasi-fini. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A562-A564. (J.-P. Lafon) 44 #4055

Vidal Abascal, Enrique. See Vidal, Enrique.

Vidal Rodas, Juan M.

Limits of observational information in the estimation of parameters. (Spanish) *Trabajos Estadíst.* 20 (1969), 123-128. (N. L. Johnson) 43 #8203

Vidav, Ivan

On Bohr-Sommerfeld postulates. (Slovenian. English summary) *Bull. Soc. Math. Phys. Serbie* 14 (1962), 117-122. (H. Araki) 32 #3486

On recursive functions. (Slovenian) *Obzornik Mat. Fiz.* 10 (1963), 49-62. (Editors) 34 #4132

Categories and functors. (Slovenian) *Obzornik Mat. Fiz.* 11 (1964), 1-12. (Editors) 34 #4335

On idempotent operators in a Hilbert space. *Publ. Inst. Math. (Beograd) (N.S.)* 4(18) (1964), 157-163. (L. de Branges) 30 #1392

} (with Ribarič, M.) Analytic properties of the inverse $A(z)^{-1}$ of an analytic linear operator valued function $A(z)$. *Arch. Rational Mech. Anal.* 32 (1969), 298-310. (M. J. Fisher) 38 #5035

Diffeomorphisms of euclidean spaces. (Slovenian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 171-175. (R. S. Palais) 43 #1216

Spectra of perturbed semigroups with applications to transport theory. *J. Math. Anal. Appl.* 30 (1970), 264-279. (J. T. Marti) 41 #4297

* O kategorijah in algebrski K-teoriji. (Slovenian) [Categories in algebraic K-theory] Postdiploma Seminar in Mathematics, 1. *Institute of Mathematics, Physics and Mechanics, Department of Mathematics, University of Ljubljana, Ljubljana,* 1971. 78 *pp.* (S. Dimiev) 44 #4077

Modules over regular rings. *Math. Balkanica* 1 (1971), 287-292. (J. S. Alin) 44 #6753

(with Prijatelj, N.) On special *-regular rings. *Michigan Math. J.* 18 (1971), 213-221. (R. A. Melter) 44 #257

Videnskiĭ, V. S.

Extremal estimates of derivatives of a polynomial on a segment. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian), pp.* 98-106. *Fizmatgiz, Moscow,* 1961. (L. Berg) 32 #1302

On trigonometric polynomials of half-integer order. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 3, 133-140. (E. J. Akutowicz) 29 #5045

On a class of interpolation polynomials with movable nodes. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 251-254. (Bl. Sendov) 31 #2539

Existence and uniqueness of the solution of a certain interpolation problem. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 29-41. (A. Kuz'mina (RŽMat 1967 #4 B116)) 39 #1860

Construction of a polynomial from a given sequence of its extrema. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 62-64. *Izdat. "Nauka", Moscow,* 1966. (J. Mycielski) 34 #4763

Theorem on the existence of a polynomial with a given sequence of extrema. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 17-20. (Chandler Davis) 34 #3177

(with Faĭnšmidt, V. L.) Boris Aleksandrovič Rymarenko. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 153-154. (1 *plate*) (Editors) 34 #19

(with Šabozov, O. Š) Generalized polynomials of S. N. Bernšteĭn with respect to the system of functions $\{(1 + x/\lambda_n)^{-1}\}$. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 10 (1967), *no.* 3, 10-13. (G. G. Lorentz) 35 #3330

The extension of V. A. Markov's theorem to the zeros of two solutions of the differential equation $[D + \lambda_n(x)] \ldots [D + \lambda_1(x)]y = 0$. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 24-26. (R. F. Matlak) 36 #4074

Certain properties of systems of minimal oscillation. (Russ *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 4 (95), 47-49. (G. Maeß) 43 #788

Least upper bounds for the successive derivatives of a polynomial on an interval. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 3 (106), 18-22. (R. P. Boas, Jr.) 44 #177

Vidossich, Giovanni

Classi di convergenza di funzioni dirette. *Boll. Un. Mat. Ital.* (3) 19 (1964), 178-184. (S. Swaminathan) 30 #555

(with Letta, Giorgio) Ein allgemeiner Satz über die Hülle einer Teilalgebra. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B* 1965, *Abt. II,* 11-14 (1966). (H. de Vries) 34 #6736

Una dimostrazione di un teorema di G. Aquaro. *Boll. Un. Mat. Ital.* (3) 20 (1965), 400-401. (S. Mardešić) 32 #6407

Characterization of separability for LF-spaces. (French summary) *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 87-90, vi (1969). (C. W. Kohls) 39 #6047

On the representation of uniform structures by extended reticles. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 553-561. (S. A. Naimpally) 42 #5223

On topological spaces whose function space is of second category. *Invent. Math.* 8 (1969), 111-113. (S. K. Kaul) 41 #6158

A theorem on uniformly continuous extensions of mappings defined in finite-dimensional spaces. *Israel J. Math.* 7 (1969), 207-210. (J. Dugundji) 40 #3515

A remark on the density character of function spaces. *Proc. Amer. Math. Soc.* 22 (1969), 618-619. (A. W. Hager) 42 #2423

A note on cardinal reflections in the category of uniform spaces. *Proc. Amer. Math. Soc.* 23 (1969), 55-58. (M. Hušek) 41 #7622

On Peano phenomenon. (Italian summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 33-42. (D. G. de Figueiredo) 42 #6674

Two remarks on A. Gleason's factorization theorem. *Bull. Amer. Math. Soc.* 76 (1970), 370-371. (G. L. Cain, Jr.) 41 #102

Characterizing separability of function spaces. *Invent. Ma* 10 (1970), 205-208. (S. K. Kaul) 42 #2424

Uniform spaces of countable type. *Proc. Amer. Math. Soc.* 25 (1970), 551-553. (H. L. Shapiro) 41 #6159

On a theorem of Corson and Lindenstrauss on Lindelöf functio spaces. *Israel J. Math.* 9 (1971), 271-278. (J. R. Isbell) 43 #6867

Approximation of fixed points of compact mappings. *J. Math. Anal. Appl.* 34 (1971), 86-89. (S. T. Lin) 43 #1004

On the structure of the set of solutions of nonlinear equations. *J. Math. Anal. Appl.* 34 (1971), 602-617. (S. Swaminathan 44 #875

A fixed point theorem for function spaces. *J. Math. Anal. Appl.* 36 (1971), 581-587. (M. Edelstein) 44 #3162

Topological characterization of pseudo-κ-compact spaces. *Pr Amer. Math. Soc.* 27 (1971), 195-198. (Anne K. Steiner) 42 #243

Vidraşcu, Maria

Contributions to the transformation of nomograms with tangency, and applications to mathematical statistics. (Romanian. English summary) *Bul. Inst. Politehn. Braşov Ser. A Mec.* 11 (1969), 1-5. (Author's summary) 40 #6803

The extension of the Soreau determinant to equations in four variables. (Romanian. French summary) *Bul. Inst. Politehn. Braşov Ser. A Mech.* 12 (1970), 3-5. (C. Ilioi) 43 #5752

Vidwans, Sudhakar M.

A note on the negative binomial distribution. *Biometrika* 51 (1964), 264-265. (C. G. Esseen) 30 #4309

Vidyasagar, Mathukumalli

(with Higgins, T. J.) A controllability criterion for stabl linear systems. *IEEE Trans. Automatic Control* AC-15 (1970), 391-392. (W. D. Collins) 43 #4515

A controllability criterion for linear systems with unbounde operators. *IEEE Trans. Automatic Control* AC-15 (1970), 491-492. (Author's summary) 43 #7236

A novel method of evaluating e^{At} in closed form. *IEEE Trans. Automatic Control* AC-15 (1970), 600-601. (Author's summary) 43 #1679

An algebraic method for finding a dual graph of a given grap *IEEE Trans. Circuit Theory* CT-17 (1970), 434-436. (S. Hedetniemi 42 #1704

On the controllability of infinite-dimensional linear system *J. Optimization Theory Appl.* 6 (1970), 171-173. (H. O. Fattorini 42 #7329

(with Subbarao, M. V.) On Watson's quintuple product identity. *Proc. Amer. Math. Soc.* 26 (1970), 23-27. (H. Gupta) #8370

(with Schneider, Hans) Cross-positive matrices. *SIAM J. Numer. Anal.* 7 (1970), 508-519. (H. Schwerdtfeger) 43 #3283

Comments on "A definition and some results for distributed system observability". (With authors' reply) *IEEE Trans. Automatic Control* AC-16 (1971), 106. (Editors) 44 #5145

On the L_2 stability of time-varying linear systems. *IEEE Trans. Automatic Control* AC-16 (1971), 268-269. (E. Fagiuoli) 44 #8010

(The sign } indicates an entry in the supplement.)

Optimal control by direct inversion of a positive-definite operator in a Hilbert space. *J. Optimization Theory Appl.* 7 (1971), 173-177. (M. Vlach) 43 #5381

On a class of inverse optimal control problems. *J. Optimization Theory Appl.* 7 (1971), 287-300. (J. Cullum) 43 #8000

edma, L. G. See García de Viedma Alonso, Luis.

Viedma Alonso, Luis García. See García de Viedma Alonso, Luis.

eira, L. R. Borges. See Borges Vieira, L. R.

ellard, Henri

(with Dubois, Jacques-Émile; Laurent, Daniel) Système DARC. Description par propagation concentrique d'un environnement limité. Méthode de représentation modulaire et uniligne d'un graphe symétrique. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A228-A230. 40 #7141

iénot, J. Ch.

(See Duffieux, P. M., 42 #7151)

era Alonso, Luis E.

* La contabilidad de Luca Pacciolo y los modelos matemáticos actuales. Su relación. (Spanish) [The accounting of Luca Pacciolo and actual mathematical models. Their relation] Doctoral dissertation in Economic Sciences, University of Cordoba. *Universidad Nacional de Cordoba, Cordoba,* 1969. iv + 147 *pp.* (E. Marchi) 41 #6559

ieru, Sorin

(See Gochet, P., 44 #3845 and Berka, Karel, 44 #3843)

iesel, Helmut

Die Gestalt analytischer, Liouvillescher Flächen im Grossen. *Math. Ann.* 166 (1966), 175-186. (H. B. Griffiths) 34 #3504

Über Liouvillesche Flächen, deren Gaußsche Krümmung die Gestalt $K = p(U) \cdot q(V)$ oder $K = p(U) + q(V)$ besitzt. *Arch. Math. (Basel)* 21 (1970/71), 646-649. (J. Hoschek) 44 #930

Über einfach geschlossene geodätische Linien auf dem Ellipsoid. *Arch. Math. (Basel)* 22 (1971), 106-112. (F. Şemin) 44 #5867

iète, François

(See Reich, Karin, 39 #9)

* Opera mathematica. Recognita Francisci à Schooten. Neudruck. Vorwort und Register von Joseph E. Hofmann. *Georg Olms Verlag, Hildesheim-New York,* 1970. xl + xii + 554 *pp. (1 plate)* (C. J. Scriba) 42 #16

ietoris, Leopold

Über die Zahl der in einem k-reduzierten Restsystem liegenden Lösungen einer Kongruenz $x_1 + x_2 + \cdots + x_r \equiv a$ (m^k). *Monatsh. Math.* 71 (1967), 55-63. (R. Finkelstein) 35 #1542

Über eine Zählfunktion von K. Nageswara Rao. *Monatsh. Math.* 72 (1968), 147-151. (A. L. Whiteman) 37 #2667

igier, Jean-Pierre

(with Hillion, Pierre) Un test possible de la symétrie d'hypercharge. *C. R. Acad. Sci. Paris* 258 (1964), 5591-5593. (Y. Ne'eman) 29 #1942

Signification physique des potentiels vecteurs et abandon de la notion d'invariance de jauge en théorie des mésons vectoriels intermédiaires. *C. R. Acad. Sci. Paris* 259 (1964), 2971-2973. (T. J. M. Boyd) 30 #1765

(with Flato, Moshé; Sternheimer, Daniel) Le groupe conforme comme possibilité de symétrie unifée en physique des interactions fortes. *C. R. Acad. Sci. Paris* 260 (1965), 3869-3872. (A. H. Taub) 30 #5737

(with Flato, M; Rideau, G.) Definition of $\mathcal{P}\,\mathcal{C}\,\mathcal{T}$ operators for the relativistic-rotator model and the Bronzan-Low symmetry. *Nuclear Phys.* 61 (1965), 250-256. (Authors' summary) 31 #1956

(with Bohm, D.; Flato, M.; Halbwachs, F.; Hillion, P.) On the "space-time character" of internal symmetries of elementary particles. *Nuovo Comento* (10) 36 (1965), 672-675. (R. Mirman) 33 #2264

(with Bohm, D.; Flato, M.; Sternheimer, D.) Conformal group symmetry of elementary particles. *Nuovo Cimento* (10) 38 (1965), 1941-1944. (R. Mirman) 33 #7026

(with Guéret, Philippe) Une représentation paramétrique de l'algèbre de Lie du groupe SU(2, 2) considéré comme groupe d'isométrie sur une variété de Riemann à cinq dimensions. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), B1085-B1088. (E. M. Thieleker) 35 #294

(with Gautrin, Henri-François; Prasad, Ramon) Sur une généralisation conforme possible de l'équation de Dirac. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), B1177-B1180. (Authors' summary) 33 #2247

Interprétation géométrique et physique de la formule du guidage en relativité générale. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A598-A600. (P. G. Bergmann) 38 #1901

(with Guéret, Philippe) Sur une extension possible de la notion de spin de Pauli aux groupes SO(p, 1) et In(SO(p, 1)). *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), B997-B999. (Authors' summary) 39 #2409

(with Guéret, Philippe) Modèle unifiant quarks et leptons selon Sakata et Yukawa, dans le groupe dynamique global SO(6, 1). *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), B653-B656. (R. L. Ingraham) 41 #3010

Vigil y Vázquez, Luis

A functional identity in the theory of orthogonal polynomials. (Spanish) *Rev. Acad. Ci. Madrid* 60 (1966), 191-212. (A. F. Danese) 34 #6397; erratum, 41, p. 1962.

A topological module and certain of its applications. (Spanish) *Rev. Acad. Ci. Madrid* 60 (1966), 329-365. (R. Arens) 35 #7112; erratum, 41, p. 1962

Fourier series all of whose terms with non-prime subscripts are zero. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 26 (1966), 47-55. (A. M. Garsia) 33 #6263; erratum, 41, p. 1962

Fourier series whose non-null terms have subindices congruent modulo a natural number p. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 26 (1966), 207-219. (R. R. Goldberg) 35 #2061; errautm, 41, p. 1962

A convergence theorem in the theory of the Lebesque integral. *Proc. Seventh Annual Reunion of Spanish Mathematicians (Valladolid,* 1966) *(Spanish), pp.* 33-35. *Univ. of Valladolid, Valladolid,* 1967. (R. C. Buck) 41 #403

A partition of L^2 in a direct sum of projections. (Spanish) *In Honor of Prof. Dr. Iñiguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp.* 211-225. *Consejo Sup. Investigacion. Ci. Fac. Ci. Zaragoza, Zaragosa,* 1969. (L. Artiaga) 40 #3147; erratum, 41, p. 1964

On the integral modulus of continuity. (Spanish) *Proc. Eighth Annual Reunion of Spanish Mathematicians (Santiago,* 1967*) (Spanish), pp.* 61-70. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1969. (R. C. Buck) 41 #404

On Fourier sums. (Spanish) *Proc. Eighth Annual Reunion of Spanish Mathematicians (Santiago,* 1967*) (Spanish), pp.* 71-80. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1969. (R. C. Buck) 41 #2281

On formal properties of orthogonal polynomials. I. Summation and recurrence. (Spanish) *Rev. Acad. Ci. Madrid* 63 (1969), 11-32. (M. Jodeit, Jr.) 39 #7179

On formal properties of orthogonal polynomials. II. Zeros and Christoffel constants. (Spanish) *Rev. Acad. Ci. Madrid* 63 (1969), 353-378. (M. Jodeit, Jr.) 41 #5675

On orthogonal polynomials. Characterization of the typical extension of a scalar product. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 29 (1969), 148-169. (S. K. Chatterjea) 41 #3844

Orthogonalization of a sequence of polynomials. (Spanish) *Rev. Acad. Ci. Madrid* 64 (1970), 421-442. (R. E. Peinado) 42 #6502

Polynomials orthogonal on a line of the complex plane. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 30 (1970), 178-204. (S. K. Chatterjea) 44 #715

Vigline, Giovanni

A co-topological application to minimal spaces. *Pacific J. Math.* 27 (1968), 197-200. (C. J. Knight) 41 #7614

C-compact spaces. *Duke Math. J.* 36 (1969), 761-764. (G. E. Strecker) 40 #2000

(with Strecker, G. E.) Cotopology and minimal Hausdorff spaces. *Proc. Amer. Math. Soc.* 21 (1969), 569-574. (J. W. Roger, Jr.) 39 #2115

(with Goss, G.) Some topological properties weaker than compactness. *Pacific J. Math.* 35 (1970), 635-638. (R. F. Dickman, Jr.) 43 #5491

Siminormal and C-compact spaces. *Duke Math. J.* 38 (1971), 57-61. (S. P. Franklin) 42 #6789

Viglione, S. S.

Applications of pattern recognition technology. *Adaptive, Learning and Pattern Recognition Systems. Theory and Applications, pp.* 115-162. *Academic Press, New York,* 1970. (R. L. Kashyap) 41 #4735

della Vigna, Pierluigi. See Della Vigna, Pierluigi.

Vigneaux, Ernest Corominas. See Corominas, Ernesto.

Vignoli, Alfonso

(with Furi, Massimo) Fixed points for densifying mappings. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 47 (1969), 465-467 (1970). (B. Margolis) 43 #4014

(with Furi, Massimo) A fixed point theorem in complete metric spaces. *Boll. Un. Mat. Ital.* (4) 2 (1969), 505-509. (W. A. Kirk) 41 #1034

(with Budak, B. M.; Gaponenko, Ju. L.) A method of regularization of an extremal problem for a continuous convex functional. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 12-15. (Z. Poracká) 40 #6324

(with Furi, Massimo) On the regularization of a nonlinear ill-posed problem in Banach spaces. *J. Optimization Theory Appl.* 4 (1969), 206-209. (J. Frehse) 41 #6024 (with Budak, B. M.; Gaponenko, Ju. L.) A certain method of regularization for a continuous convex functional. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1046-1056. (A. B. Kuržanskiĭ) 41 #9081

(with Furi, Massimo; Martelli, Mario) On minimum problems for families of functionals. *Ann. Mat. Pura Appl.* (4) 86 (1970), 181-187. (A. Zame) 42 #5248

(with Furi, Massimo) On α-nonexpansive mappings and fixed points. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 48 (1970), 195-198. (L. F. Guseman, Jr.) 43 #5513

(with Furi, Massimo) A remark about some fixed point theorems. *Boll. Un. Mat. Ital.* (4) 3 (1970), 197-200. (S. Swaminathan) 41 #7669

(with Furi, M.) On a property of the unit sphere in a linear normed space. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 333-334. (D. J. H. Garling) 41 #8969

(with Furi, Massimo) About well-posed optimization problems for functionals in metric spaces. *J. Optimization Theory Appl.* 5 (1970), 223-229. (L. Cesari) 41 #9075

(with Furi, M.) A characterization of well-posed minimum problems in a complete metric space. *J. Optimization Theory Appl.* 5 (1970), 452-461. (L. Cesari) 41 #9076

Vignon, Bernard

L'équation de Boltzmann en relativité. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A795-A798. (L. Witten) 33 #3753

Une méthode de résolution approchée de l'équation de Boltzmann relativiste. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 10 (1969), 31-66. (Editors) 39 #2438

Sur l'utilisation d'un principe variationnel dans l'étude de l'équation de Boltzmann relativiste. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A1331-A1334. (L. Arkeryd) 44 #7875

Viguier, Alain

Traitement d'un modèle de processus à stochasticités imbriquées (dynamic inference). (Loose English summary) *Rev. Française Informat. Recherche Opérationnelle* 4 (1970), *Sér.* R-1, 95-107. (L. A. Aroian) 43 #1371

Vihmann, F. See Vichmann, F.

Vihrenko, V. S.

(with Nemcov, V. B.; Rott, L. A.) Transfer equations for multicomponent systems. (Russian) *Vescī Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1969, *no.* 1, 102-110. (D. ter Haar) 41 # 3050

Viik, T.

On the solution of the transport equation in the spherically symmetric case. (Russian. Estonian and English summaries) *Eesti NSV Tead. Akad. Toimetised Füüs.-Mat.* 19 (1970), 286-291. (J. P. Guiraud) 44 #5059

Vijayaditya, N.

On total chromatic number of a graph. *J. London Math. Soc.* (2) 3 (1971), 405-408. (F. Harary) 44 #2665

Vijayan, K.

(with Murty, U. S. R.) On accessibility in graphs. *Sankhyā Ser. A* 26 (1964), 299-302. (F. Harary) 32 #4038

On Horvitz-Thompson and Des Raj estimators. *Sankhyā Ser. A* 28 (1966), 87-92. 41 #2824

Vikin, A. V.

Stability in the large of certain systems of differential equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 3-5. (F. Brauer) 37 #3134

A derivative by virtue of inequalities. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 11-20. (G. Bojadžiev) 41 #2155

An application of the derivative by virtue of inequalities to certain questions of stability of motion. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 21-29. (G. Bojadžiev) 41 #2156

The stability in the large of a system of differential equations with *n* nonlinearities. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 67 (1968), 31-34. (F. Brauer) 41 #8776

Viktorov, B. V.

Special features of behavior of control systems with sharply different rates of the motion components. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 5, 190-195 *(Russian); translated as Engrg. Cybernetics* 1967, *no.* 5, 177-182 (1968). (D. D. Sworder) 39 #2490

Viktorov, I. A.

Effects of a second approximation in the propagation of waves through solids. *Akust. Ž.* 9 (1963), 296-300 *(Russian); translated as Soviet Physics Acoust.* 9 (1964), 242-245. (R. T. Shield) 29 #804

Viktorova, I. I.

(with Čistjakov, V. P.) Asymptotic normality in the problem of balls with arbitrary probabilities of dropping in boxes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 162-167. (C. V. Stanojevic) 31 #789

(with Čistjakov, V. P.) Some generalizations of the empty boxes test. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 306-313. (W. Hoeffding) 34 #2121

(with Sevast'janov, B. A.) Limiting behavior of the maximum in a polynomial scheme. (Russian) *Mat. Zametki* 1 (1967), 331-338. (K. Dietz) 35 #2327

The asymptotic behavior of the maximum in an equiprobable polynomial scheme. (Russian) *Mat. Zametki* 5 (1969), 305-316. (W. H. Fleming) 39 #4916

Viktorovskiĭ, E. E.

On the theory of fields of cones of directions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46), 38-45. (C. Corduneanu) 32 #7899

Vilanova, Klovis

Certain trinomial equations over finite fields. (Russian. English summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 17-31. (R. A. Good) 35 #5420

Vilaplana, J. P.

Solution of elliptic partial differential equations by the Monte Carlo method. (Spanish) *Proc. Eighth Annual Reunion of Spanish Mathematicians (Santiago,* 1967)*(Spanish), pp.* 156-160. *Publ. Inst. "Jorge Juan" Mat., Madrid,* 1969. (M. L. Juncosa) 40 #5106

Vil'čevskiĭ, N. O.

An algorithm for separating convex sets. *Avtomat. i Telemeh.* 1966, *no.* 9, 70-76 *(Russian. English summary); translated as Automat. Remote Control* 27 (1966), 1564-1571 (1967). (J. Stoer) 34 #8816

Vil'chevskii, N. O. See Vil'čevskiĭ, N. O.

Vil'čik, G. G.

(with Trius, E. B.) Solving the transport problem with nonlinear shipping costs by the method of successive reduction of untyings. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Ėkonom. i Mat. Metody, Collection No. 1) (Russian), pp.* 33-38. *Izdat. "Nauka", Moscow,* 1969. (S. Zlobec) 44 #3704

Vîlcovici, V. See Vâlcovici, Victor.

Vileĭtner, G. See Wieleitner, Heinrich.

Vilenčik, L. Z.

The construction of the quantum theory of fields by means of measures in function spaces. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 10, 52-60. (K. Kumar) 41 #1312

Vilenkin, I. V.

Plane nets of integration. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 189-196. (Walter Gautschi) 34 #5291

Vilenkin, N. Ja.

Special functions associated with class 1 representations of the motion groups of spaces of constant curvature. (Russian) *Trudy Moskov. Mat. Obšč.* 12 (1963), 185-257. (H. A. Lauwerier) 29 #191

* Successive approximation. Translated and adapted from the Russian by Michael B. P. Slater and Joan W. Teller. Survey of Recent East European Mathematical Literature. Popular Lectures in Mathematics, Vol. 15. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. ix + 70 *pp.* (P. J. Davis) 30 #1340

* (with Gel'fand, I. M.) Generalized functions. Vol. 4: Applications of harmonic analysis. Translated by Amiel Feinstein. *Academic Press, New York-London,* 1964. xiv + 384 *pp.* (J. L. B. Cooper) 30 #4152

* (with Gel'fand, I. M.) Verallgemeinerte Funktionen (Distributionen) IV. Einige Anwendungen der harmonischen Analyse. Gelfandsche Raumtripel. Hochschulbücher für Mathematik, Band 50. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1964. 359 *pp.* (J. L. B. Cooper) 31 #6118

*(with Gorin, E. A.; Kostjučenko, A. G.; Krasnosel'skiĭ, M. A.; Kreĭn, S. G.; Mitjagin, B. S.; Petunin, Ju. I.; Rutickiĭ, Ja. B.; Sobolev, V. I.; Stecenko, V. Ja.; Faddeev, L. D.; Citlanadze, E. S.; Maslov, V. P.) Функциональный анализ. (Russian) [Functional analysis. Edited by S. G. Kreĭn. *Izdat. "Nauka", Moscow,* 1964. 424 *pp.* (A. Shields) 32 #1532

Functional composition theorems for the hypergeometric function. (Russian) *Mat. Sb. (N.S.)* 65(107) (1964), 28-46. (J. L. B. Cooper) 29 #3680

The hypergeometric function and representations of the group of real second-order matrices. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 497-520. (J. L. B. Cooper) 29 #3679

(with Smorodinskiĭ, Ja. A.) Invariant expansions of relativistic amplitudes. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 1793-1808. *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1209-1218. (W. Güttinger) 31 #6572 (with Cukerman, V. V.) An asymptotic formula for the Bessel function (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1097-1102. (J. L. B. Cooper) 30 #1265

Special functions associated with representations of groups of motions of spaces of constant curvature. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian), pp.* 537-544. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (A. Hulanicki) 34 #4547

(with Agaev, G. N.; Džafarli, G. M.) Multiplicative orthonormalized systems of functions. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962)(Russian), pp.* 413-418. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (F. Ustina) 33 #4575

* Специальные функции и теоруя представлений групп. [Special functions and theory of group representations] *Izdat. "Nauka", Moscow,* 1965. 588 *pp.* (D. Želobenko (RŽMat 1966 #11 B448)) 35 #420

(with Kuznecov, G. I.; Smorodinskiĭ, Ja. A.) Eigenfunctions of the Laplace operator providing representations of the U(2), SU(2), SO(3), U(3) and SU(3) groups and the symbolic method. *Jadernaja Fiz.* 2 (1965), 906-917 *(Russian); translated as Soviet J. Nuclear Phys.* 2 (1966), 645-652. (M. A. B. Bég) 34 #7722

Polyspherical and orispherical functions. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 432-443. (W. M. Tulczyjew) 33 #672

(See also Bateman, Harry; Erdélyi, Arthur, 34 #1565, 39 #4451; and Gel'fand, I. M.; Graev, M. I., 34 #7726)

(with Šapiro, R. L.) Irreducible representations of the group SU(*n*) of class I relative to SU(*n*-1). (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 9-20. (A. J. Coleman) 36 #2741

* (with Gel'fand, I. M.) Les distributions. Tome 4: Applications de l'analyse harmonique. Traduit du russe par G. Rideau. Collection Universitaire de Mathématiques, No. 23. *Dunod, Paris,* 1967. xii + 376 *pp.* (Editors) 35 #7123

Integral transforms of functions on hyperboloids. I. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 119-132. (M. Cotlar) 36 #619

* Special functions and the theory of group representations. Translated from the Russian by V. N. Singh. Translations of Mathematical Monographs, Vol. 22. *American Mathematical Society, Providence, R. I.,* 1968. x + 613 *pp.* (Editors) 37 #5429

* Метод последовательных приближений. [The method of successive approximations] Second revised and augmented edition. *Izdat. "Nauka", Moscow,* 1968. 108 *pp.* (Editors) 38 #457

Laguerre polynomials, Whittaker functions and representations of the group of bordered matrices. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 432-444. (J. Ławrynowicz) 37 #1666

* Комбинаторика [Combinatorics] *Izdat. "Nauka", Moscow,* 1969. 328 *pp.* (J. B. Roberts) 39 #2646

* Fonctions spéciales et théorie de la représentation des groupes. Traduit du Russe par D. Hérault. Monographies Universitaires de Mathématiques, No. 33. *Dunod, Paris,* 1969. xxxii + 628 *pp.* (Editors) 39 #4467

(See also Bateman, Harry; Erdélyi, Arthur; Magnus, V.; Oberhettinger, F.; Tricomi, F. G., 40 #650)

* (with Gel'fand, I. M.; Graev, M. I.) Les distributions. Tome 5: Géométrie intégrale et théorie des représentations. Traduit du russe par S. Vasilach et G. Gussi. Monographies Universitaires de Mathématiques, 34. *Dunod, Paris,* 1970. xvi + 552 *pp.* (Editors) 40 #6259

Hypergeometric functions of several variables, and degenerate representations of the SL (*n*, *R*). (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 4 (95), 50-55. (J. L. B. Cooper) 43 #2262

(with Šleĭnikova, M. A.) Integral correlations for Whittaker functions, and representations of the three-dimensional Lorentz group. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 185-191. (J. M. G. Fell) 43 #417

Vilenkin, S. Ja.

* Статистические методы исследования стационарных процессов и систем автоматического регулирования. [Statistical methods for the investigation of stationary processes and automatic control systems] *Izdat. "Sovetskoe Radio", Moscow,* 1967. 200 *pp.* (K. Dietz) 36 #4913

Vilhelm, Václav

(See Rektorys, Karel, 39 #2370)

Viljacer, V. G.

Some properties of groups of automorphisms. (Russian) *Učen. Zap. Ural. Gos. Univ.* 1959, *vyp.* 23, 3-10. (L. Fuchs) 30 #2087

Radical theory in automorphism groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 3, 79-88 (1963). (L. Fuchs) 34 #4383

The Engel properties of groups. (Russian) *Proceedings of the Riga Seminar on Algebra (Russian), pp.* 8-28. *Latv. Gos. Univ., Riga,* 1969. (L. Beran) 44 #324

(with Levičs, E.) The isomorphic representation of free nilpotent groups by matrices over a certain field of characteristic zero. (Russian) *Ural. Gos. Univ. Mat. Zap.* 7 (1969/70), *tetrad'* 3, 51-55. (I. Reiner) 44 #2853

Vil'jams, N. N.

Metadedekind and metahamiltonian groups. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 634-654. (R. R. Struik) 39 #1557

Individual and compatible minimal meta-Hamiltonian groups. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 4 (154), 175-176. (R. R. Struik) 43 #349

Viljoen, Gerhardus

* A contribution to the extensions of abelian groups. Ter Verkrijging van de Graad van Doctor in de Technische Wetenschap aan de Technische Hogeschool te Delft. *Drukkerij "Luctor et Emergo", Leiden,* 1963. viii + 42 *pp.* (L. Fuchs) 29 #156

A contribution to the extensions of abelian groups. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 6 (1963), 125-132. (D. K. Harrison) 29 #5906

(with Gräbe, Petrus Johannes) Maximal classes of Ext-reproduced abelian groups. *Bull. Soc. Math. France* 98 (1970), 165-192. (A. Mader) 42 #363

(with Gräbe, Petrus J.) Characterizations of classes of left Ext-reproduced groups. *Bull. Soc. Math. France* 98 (1970), 337-358. (A. Mader) 43 #3342

Vilkas, E.

Solution of a functional equation with a game-valued operator. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 1, 61-70. (N. H. Choksy) 31 #2084

Some functional properties of the value of a matrix game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 1, 71-76. (N. H. Choksy) 31 #2085

Transformation of the matrix of a game and the value of the game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 4 (1964), 25-29. (J. R. Isbell) 29 #5649

Decision regions of a parametric matrix game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 4 (1964), 31-35. (J. R. Isbell) 29 #5650

Solvability of a system of linear inequalities. (Russian. Lithuanian and English summaries) *Litovsk, Mat. Sb.* 6 (1966), 211-215. (M. Iosifescu) 35 #205

(with Sūdžiūtė, D.) Classical approximation methods in the theory of games. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 6 (1966), 217-225. (M. Iosifescu) 35 #1361

(with Budreĭka, B. I.) The derivative of the value of a parametric antagonistic game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 23-27. (J. R. Isbell) 36 #2407

Some remarks on the equilibrium situations of a coalition-free *n*-player game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 583-587 (1968). (J. R. Isbell) 38 #3052

Equilibrium situations in coalition-free games of several players. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 589-593 (1968). (J. R. Isbell) 38 #3053

The existence of effective equilibrium points in a vector optimization problem. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 41-45. (Author's introduction) 43 #1602

An axiomatic definition of equilibrium situation and value for an *n*-person coalition-free game. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 555-560. (J. R. Isbell) 39 #7950

(with Jačiauskas, I.) Uniform convergence of the values of differential games. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 259-262. (A. Friedman) 41 #5063

Optimality in coalition-free games: A survey of approaches. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 463-470. (V. Polák) 43 #4479

Games with variable payoffs. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 693-703. (B. O. Shubert) 44 #1448

Vilkauskas, L.

Two integral theorems on large deviations in the higher-dimensional case. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 2, 53-67. (F. L. Spitzer) 29 #6527

Large deviations of Linnik type in the multi-dimensional case on certain regions. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 25-43. (R. F. Gundy) 35 #4971

Vilkinson, Dž. H. See Wilkinson, James Hardy.

Vil'kovič, E. V.

(with Kantorovič, L. V.; Molčan, G. M.; Keĭlis-Borok, V. I.) A statistical model of seismicity and an estimate of the basic seismic effects. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1970, 85-102 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1970, 320-328. (W. J. Pierson, Jr.) 42 #4176

Vil'kovich, E. V. See Vil'kovic, E. V.

Villa, Giovanni

Calcolo proposizionale trivalente dialettico. *Boll. Un. Mat. Ital.* (4) 3 (1970), 1026-1041. (M. Stojaković) 43 #3093

Villa, Mario

Niccolò Tartaglia a quattro secoli dalla morte. *Atti Accad. Sci. Ist. Bologna Cl. Sci. Fis. Rend.* (12) 1 (1963/64), *no.* 1, 5-24. (J. Vernet) 35 #4074

Un'osservazione sulla geometria affine delle trasformazioni puntuali. *Boll. Un. Mat. Ital.* (3) 19 (1964), 53-59. (B. Segre) 29 #2724

Sulle trasformazioni puntuali fra tre o più spazi lineari. *Boll. Un. Mat. Ital.* (3) 20 (1965), 87-95. (E. Bompiani) 31 #3913

Sulle corrispondenze fra tre piani. *Ann. Mat. Pura Appl.* (4) 71 (1966), 351-361. (E. Morgantini) 35 #905

La teoria delle trasformazioni puntuali fra spazi lineari e i geometri bolognesi. *Studia Ghisleriana Ser. IV, Vol. IV: Studi Matematici, pp.* 1-12. *Collegio Ghislieri, Pavia,* 1967. (Editors) 38 #152

Sulle trasformazioni puntuali fra più di due spazi a n dimensioni. I. *Boll. Un. Mat. Ital.* (3) 22 (1967), 57-67. (E. Morgantini) 35 #6062

Le trasformazioni di Godeaux e il loro intervento nella geometria differenziale delle trasformazioni puntuali fra spazi proiettivi. *Hommage au Professeur Lucien Godeaux, pp.* 181-185. *Librairie Universitaire, Louvain,* 1968. (G. Vranceanu) 39 #6189

Sulle trasformazioni puntuali di 3^a specie fra piani proiettivi. *Period. Mat.* (4) 46 (1968), 385-394. (D. B. Scott) 40 #841

Parabola e paraboloide di curvatura. *Boll. Un. Mat. Ital.* (4) 4 (1971), 468-472. (J. Verdina) 44 #7443

Terne di calotte superficiali del 2° ordine corrispondenti in una trasformazione puntuale fra tre spazi proiettivi ordinari. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 297-302. (M. Stoka) 44 #4660

Villachon, Y.

(with d'Espagnat, B.) Intermediate bosons and unitary symmetry. (Italian summary) *Nuovo Comento* (10) 33 (1964), 948-964; *erratum, ibid.* (10) 34 (1964), 516. (K. T. Mahanthappa) 32 #3604

Villaggio, Piero

Su alcune formule di maggiorazione per l'energia di deformazione di un corpo elastico. *Matematiche (Catania)* 17 (1962), 121-136. (H. F. Weinberger) 31 #2865

Su un criterio di stabilità cinetica di sistemi meccanici soggetti ad azioni impulsive. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 96-100. (M. Stippes) 30 #314

Villalon, Julio G.

On the graduation method of Whittaker-Henderson based on subjective probability. (Spanish) *Estadíst. Española No.* 37 (1967), 49-60. (D. A. Jones) 38 #2887

Villamayor, Orlando E.

(with Zelinsky, D.) Galois theory for rings with finitely many idempotents. *Nagoya Math. J.* 27 (1966), 721-731. (A. Rosenberg) 34 #5880

Separable algebras and Galois extensions. *Osaka J. Math.* 4 (1967), 161-171. (F. DeMeyer) 37 #4064

(with Nobile, A.) Sur la K-théorie algébrique. *Comptes Rendus du K-Colloque (Montpellier, 1968), Vol. II, pp.* 44-94. *Univ. of Montpellier, Montpellier,* 1968. (H. Bass) 40 #5702

(with Micali, Artibano) Sur les algèbres de Clifford. II. *Comptes Rendus du K-Colloque (Montpellier, 1968), Vol. II, pp.* i, 95-144. *Univ. of Montpellier, Montpellier,* 1968. *(loose errata)* (J.-P. Lafon) 41 #5394

(with Micali, Artibano) Sur les algèbres de Clifford. *Ann. Sci. École Norm. Sup.* (4) 1 (1968), 271-304. (J.-P. Lafon) 41 #244

(with Nobile, A.) Sur la K-théorie algébrique. *Ann. Sci. École Norm. Sup.* (4) 1 (1968), 581-616. (J. F. Adams) 39 #1526

(with Karoubi, Max) Foncteurs K^n en algèbre et en topologie. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A416-A419. (P. Abellanas) 40 #4944

(with Zelinsky, D.) Galois theory with infinitely many idempotents. *Nagoya Math. J.* 35 (1969), 83-98. (F. DeMeyer) 39 #5555

(with Karoubi, Max) Sur la suite exacte d'une localisation en K-théorie. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1049-A1051. (P. Abellanas) 42 #6078

(with Micali, Artibano) Sur les algèbres de Clifford. II. *J. Reine Angew. Math.* 242 (1970), 61-90. (J.-P. Lafon) 41 #6902

(with Karoubi, Max) K-théorie hermitienne. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1237-A1240. (J. Eells) 43 #4889

Villani, M.

(with Garibotti, C. R.) Padé approximant and the Jost function. (Italian summary) *Nuovo Cimento A* (10) 61 (1969), 747-765. (J.-L. Calais) 40 #1110

(with Garibotti, C. R.) Extended Padé method and off-shell two-body amplitude. (Italian and Russian summaries) *Nuovo Cimento A* (10) 63 (1969), 1267-1279. (K. Kumar) 41 #3031

Villani, Vinicio

Su alcune proprietà coomologiche dei fasci coerenti su uno spazio complesso. *Rend. Sem. Mat. Univ. Padova* 35 (1965), 47-55. (H. Röhrl) 32 #2617

Cohomological properties of complex spaces which carry over to normalizations. *Amer. J. Math.* 88 (1966), 636-645. (W. Kaup 34 #3593

Fibrati vettoriali olomorfi su una varietà complessa q-completa. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 15-23. (H. B. Shutrick) 34 #1560

(with Sorani, Giuliano) q-complete spaces and cohomology. *Trans. Amer. Math. Soc.* 125 (1966), 432-448. (S. Kobayashi) 34 #6154

Sulla nozione di q-completezza nella teoria delle funzioni di più variabili complesse. (English summary) *Univ. e Politec. Torino Rend. Sem. Mat.* 26 (1966/67), 27-32. (Gerd Fischer) 36 #5395

Un teorema di passaggio al limite per la coomologia degli spazi complessi. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 43 (1967), 168-170. (I. Fary) 37 #6487

Sulla nozione di q-convessità per gli spazi complessi non ridotti. *Rend. Sem. Mat. Univ. Padova* 41 (1968), 326-331. (M. Hervé) 40 #5904

Considerazioni sulla coomologia degli spazi complessi. (English summary) *Rend. Sem. Mat. Fis. Milano* 39 (1969), 147-150. (A. Tognoli) 42 #6282

Spazi analitici reali e complessi. *Symposia Mathematica, Vol. V (INDAM, Rome,* 1969/70), *pp.* 347-361. *(Academic Press, London,* 1971. (F. Gherardelli) 44 #471

Villanueva, J.

(with Marris, A. W.) Dependence of stress upon temperature gradient for an ideally elastic solid isotropic and homogeneous i the reference state. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964 419-422. (A. C. Pipkin) 29 #6673

Villanueva Nóvoa, E.

Coproducts in the category of groups. (Spanish) *Proc. Seven Annual Reunion of Spanish Mathematicians (Valladolid, 1966) (Spanish), pp.* 95-97. *Univ. of Valladolid, Valladolid,* 1967. (Editors) 40 #4346

Coproducts in the category of groups. (Spanish) *Rev. Mat. Hisp.-Amer.* (4) 27 (1967), 188-191. (J. R. Isbell) 37 #1476

*Funtor envolvente o de capas inyectivas en M_R. (Spanish) [Enveloping functor or functor of injective hulls in M_R] Alxebra, 2. *Departamento de Algebra y Fundamentos, Universidad de Santiago de Compostela, Santiago de Compostela,* 1969. ii + 81 *pp.* (P. Abellanas) 44 #6790

Villari, Gaetano

Criteri di esistenza di soluzioni periodiche per una classe di equazioni differenziali del secondo ordine non lineari. *Ann. Mat. Pura Appl.* (4) 65 (1964), 153-166. (R. Reissig) 30 #307

Sull'esistenza di soluzioni periodiche per i sistemi differenziali del secondo ordine. *Ann. Mat. Pura Appl.* (4) 65 (1964), 239-252. (Z. Opial) 30 #4029

Criteri di esistenza di soluzioni periodiche per particolari classi di equazioni differenziali del terz'ordine non lineari. *Matematiche (Catania)* 19 (1964), 96-113. (Z. Opial) 30 #4041

Contributi allo studio dell'esistenza di soluzioni periodiche per i sistemi di equazioni differenziali ordinarie. *Ann. Mat. Pura Appl.* (4) 69 (1965), 171-190. (J. J. Schäffer) 32 #7864

Soluzioni periodiche di una classe di sistemi di tre equazioni differenzialli ordinarie. *Ann. Mat. Pura Appl.* (4) 69 (1965), 191-200. (J. J. Schäffer) 32 #7865

Soluzioni periodiche di una classe di equazioni differenziali del terz'ordine quasi lineari. *Ann. Mat. Pura Appl.* (4) 73 (1966), 103-110. (S. P. Diliberto) 34 #6223

Soluzioni periodiche di una classe di equazioni del secondo ordine non lineari. *Matematiche (Catania)* 24 (1969), 368-374. (W. J. Coles) 42 #6358

Villarino, Mark

(with Alter, Ronald) A remark on primes in arithmetic progressions. *Bull. Austral. Math. Soc.* 3 (1970), 185-192. (H. L. Montgomery) 42 #5926

Villarroel, D.

Cross-section, scattering amplitude and the asymptotic behaviour of the potential. (Italian and Russian summaries) *Nuovo Cimento A* (10) 70 (1970), 175-198. (R. C. Varma) 42 #7180

Villars, Félix M. H.

Elementary quantum theory of nuclear collective rotation. *Nuclear Phys.* 74 (1965), 353-367. (L. S. Kisslinger) 33 #5306

Villars, R.

Eine semantische Charakterisierung der durch die Implikation allein darstellbaren Wahrheitsfunktionen. *Arch. Math. Logik Grundlagenforsch.* 10 (1967), 34-36. (M. R. Krom) 35 #4087

Villat, Henri

(See Cazenave, René, 42 #3313)

Ville, Françoise

Décidabilité des formules existentielles en théorie des ensembles. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A513-A516. (M. Yasuhara) 43 #4659

Complexité des structures rigidement contenues dans une théorie du premier ordre. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A561-A563. (Arnold Oberschelp) 44 #1552

lle, Jean A.

Interpolation à tangente continue. (English summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No. 165, Besançon, 1966), pp.* 241-251. *Éditions Centre Nat. Recherche Sci., Paris,* 1968. (R. R. Coveyou) 38 #1831

(See also Carvallo, Michel, 39 #39)

lle, M.

Entropie et information. *Rev. CETHEDEC No.* 1 (1964), 141-153. (Editors) 34 #8864

llegas, C.

Confidence region for a linear relation. *Ann. Math. Statist.* 35 (1964), 780-788. (E. Parzen) 29 #697

On qualitative probability σ-algebras. *Ann. Math. Statist.* 35 (1964), 1787-1796. (R. V. Chacon) 29 #4860

On the asymptotic efficiency of least squares estimators. *Ann. Math. Statist.* 37 (1966), 1676-1683. (H. D. Brunk) 34 #3706

On qualitative probability. *Amer. Math. Monthly* 74 (1967), 661-669. (I. J. Good) 35 #6166

On the least squares estimation of non-linear relations. *Ann. Math. Statist.* 40 (1969), 462-466. (P. J. Huber) 39 #4992

On the a priori distribution of the covariance matrix. *Ann. Math. Statist.* 40 (1969), 1098-1099. (A. K. Gayen) 39 #5002

llella Bressan, Rosanna

Sugli autoomeomorfismi periodici della corona circolare. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fiz. Mat. Natur.* (8) 38 (1965), 477-479. (P. V. Reichelderfer) 34 #6739

Sugli autoomeomorfismi periodici del cerchio. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 796-800. (P. V. Reichelderfer) 34 #6740

A proposito di un problema al contorno per le equazioni differenziali ordinarie del secondo ordine. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 327-332. (A. G. Kartsatos) 38 #6140

llone, Arnold, L.

Self-adjoint differential operators. *Pacific J. Math.* 35 (1970), 517-531. (B. Fishel) 44 #7369

llumsen, P. V.

On the solution of normal equations. *Nordisk Tidskr. Informations-Behandling* 5 (1965), 203-210. (Author's summary) 32 #1889

lms, Jaak

Connections on tangent bundles. *J. Differential Geometry* 1 (1967), 235-243. (S. Takizawa) 37 #4742

Curvature of nonlinear connections. *Proc. Amer. Math. Soc.* 19 (1968), 1125-1129. (A. Kawaguchi) 38 #6490

Totally geodesic maps. *J. Differential Geometry* 4 (1970), 73-79. (F. Brickell) 41 #7589

(with Ruh, Ernst A.) The tension field of the Gauss map. *Trans. Amer. Math. Soc.* 149 (1970), 569-573. (T. K. Pan) 41 #4400

Nonlinear and direction connections. *Proc. Amer. Math. Soc.* 28 (1971), 567-572. (S. Ide) 43 #5473

Submanifolds of Euclidean space with parallel second fundamental form. *Proc. Amer. Math. Soc.* 32 (1972), 263-267. (A. Gray) 44 #7482

il'ner, Iosif Aleksandrovič

(with Galajda, Pavel) Nonelementary relations of equations of the third nomographic order and their automorphic representations. (Russian. French summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 14 (1964), 6-43. (E. M. Bruins) 32 #3302

Principles of transference and nomographic representation in a real projective plane of functions of Study's complex dual variable and of Clifford's double variable. I, II. (Russian) *Arch. Math. (Brno)* 1 (1965), 101-152; 153-188. (M. Decuyper) 34 #3821

(with Galajda, P.) Foundations of anallagmatic nomography. (Russian. German and Slovak summaries) *Acta Fac. Rerum Natur. Univ. Comenian.* 15, 1-29 (1967). (E. M. Bruins) 37 #6055

Quadrature-free nomography. Algebraic nomography and the problem of the anamorphosis of functions in the two-dimensional plane with $n = 6$ variables. I. (Russian. Loose English summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 169-205. (E. M. Bruins) 37 #6056

Quadrature-free nomography. Algebraic nomography and the problem of the anamorphosis of functions in the two-dimensional plane with $n = 6$ variables. II. (Russian. Loose English summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 266-281. (E. M. Bruins) 38 #6789

ilnitis, A. Ja.

Distribution of fields and currents in a conducting body of rectangular cross-section situated between two infinite inductors and subject to a sinusoidal magnetic travelling wave. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sèr.* 1965, *no.* 2, 3-18. (Author's summary) 31 #2958

Viñas, J. A. Fernándes, See Fernández Viña, J. A.

Vinayak, B. P.

(with Gandhi, J. M.; Nain, V. P. S.) A virial theorem for plasmas. *Phys. Lett.* 14 (1965), 27-28. (K. Imre) 32 #2144

Vinberg, È. B.

Invariant linear connections in a homogeneous space. (Russian) *Trudy Moskov. Mat. Obšč.* 9 (1960), 191-210. (A. Švec (Zbl 113, 158)) 31 #690

Lie groups and homogeneous spaces. (Russian) *Itogi Nauki (Algebra. Topology. 1962), pp.* 5-32. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1963. (B. M. Schein (Šaĭn) 30 #200

On the theorem concerning the infinite-dimensionality of an associative algebra. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 209-214. (E. Inaba) 30 #3108

Structure of the group of automorphisms of a homogeneous convex cone. (Russian) *Trudy Moskov. Mat. Obšč.* 13 (1965), 56-83. (A. Korányi) 34 #1457

(with Gindikin, S. G.; Pjateckiĭ-Šapiro, I. I.) Homogeneous Kähler manifolds. English translation by Adam Korányi. *Geometry of Homogeneous Bounded Domains (C.I.M.E., 3° Ciclo, Urbino, 1967), pp.* 3-87. *Edizioni Cremonese, Rome,* 1968. (N. R. Wallach) 38 #6513

* Компактные группы Ли. (Russian) [Compact Lie groups] *Izdat. Moskov. Univ., Moscow,* 1967. 86 *pp.* (H. Kraljević) 41 #5549

(with Adreev, E. M.; Èlašvili, A. G.) Orbits of highest dimension of semisimple linear Lie groups. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 4, 3-7. (A. Kirillov (RŽMat 1969 #1 B663)) 42 #1942

Discrete groups generated by reflections in Lobačevskiĭ spaces. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 471-488; *correction, ibid.* 73(115) (1967), 303. (H. Schwerdtfeger) 34 #7667

(with Gindikin, S. G.) Kähler manifolds admitting a transitive solvable group of automorphisms. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 357-377. (B. Cenkl) 36 #7161

(with Kac, V. G.) Quasi-homogeneous cones. (Russian) *Mat. Zametki* 1 (1967), 347-354. (E. J. F. Primrose) 34 #8280

Invariant norms in compact Lie algebras. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 2, 89-90. (R. G. Laha) 38 #3388

Some examples of crystallographic groups in Lobačevskiĭ spaces. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 633-639. (D. Betten) 39 #7497

Geometric representations of Coxeter groups. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 267-268. (J. C. Fisher) 41 #6985

Rings of definition of dense subgroups of semisimple linear groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 45-55. (H. Schwerdtfeger) 43 #4929

Vincensini, P. Dominique

Sur certaines interprétations de la fonction de déviation dans l'espace-temps de Minkowski. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1353-A1356. (W. Israel) 44 #7943

Vincensini, Paul

Sur quelques aspects de la géométrie de l'équation de Laplace: $\partial^2 z/\partial x^2 + \partial^2 z/\partial y^2 = 0$. *2ième Colloq. Géométrie Différentielle (Liège, 1961), pp.* 9-27. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris;* 1962. (H. W. Guggenheimer) 31 #1619

Sur les déformations équivalentes infinitésimales des surfaces. *Univ. Nac. Tucumán Rev. Ser. A* 14 (1962), 177-188. (F. Şemin) 29 #6400

Sur une transformation hyperspatiale du problème des surfaces à courbures totale et moyenne linéairement liées, et sur quelques questions connexes. *J. Math. Pures Appl.* (9) 43 (1964), 371-400. (H. W. Guggenheimer) 30 #2420

Sur les réseaux cinématiquement auto-conjugués d'une surface. *Math. Notae* 19 (1964), 23-29. (A. M. Garsia) 31 #675

Sur les transformations des champs de vecteurs unitaires conservant les courbes intégrales et les circulations le long des contours fermés. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. i a Mat. (N.S.)* 11B (1965), 251-259. (A. Fialkow) 34 #3472

Sur une représentation quadridimensionnelle ponctuelle de l'espace réglé à trois dimensions. *Ann. Mat. Pura Appl.* (4) 70 (1965), 371-397. (E. G. Togliatti) 33 #651

Sur la courbure des congruences de sphères. *Rend. Sem. Mat. Messina* 10 (1965/66), 23-25 (1968). (E. Bompiani) 40 #6398

Sur une transformation des champs de vecteurs unitaires de E_n *Rend. Sem. Mat. Messina* 10 (1965/66), 26-28 (1968). (R. Roşca) 40 #4869

Sur quelques questions relatives à la théorie des corps convexes de E_n. *Rend. Sem. Mat. Messina* 10 (1965/66), 29-32 (1968). (T. J. Willmore) 41 #2590

Questions liées à la notion de géométrie différentielle globale. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 875-893. (A. Švec) 34 #8320

Sur certaines transformations des champs de vecteurs. (English summary) *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 448-455. *Indiana Univ. Press, Bloomington, Ind.*, 1966. (E. G. Togliatti) 34 #3471

(with Zamfirescu, T. I.) Sur une fibration de l'espace des corps convexes. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A510-A511. (L. A. Santaló) 38 #608

Sur une équation de Cayley. *Hommage au Professeur Lucien Godeaux, pp.* 45-50. *Librairie Universitaire, Louvain,* 1968. (F. Şemin) 38 #6472

Sur une représentation quadridimensionnelle des transformations ponctuelles du plan euclidien et sur certains points de la théorie des fonctions analytiques. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1151-A1153. (E. G. Togliatti) 41 #4397

(with Milloux, Henri) Sur une méthode vectorielle d'étude des congruences de droites, et quelques-unes de ses applications. *Bull. Sci. Math.* (2) 94 (1970), 5-24. (M. Kurita) 42 #2374

(with Roşca, Radu) Sur les surfaces minimales de l'espace euclidien à quatre dimensions. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A657-A660. (R. Osserman) 41 #2548

Sur une représentation sphérique des surfaces de E_4 dans E_3, et sur les groupes de transformations ponctuelles de E_4 associées. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A839-A842. (E. G. Togliatti) 43 #3934

Sur une représentation quadridimensionnelle des transformations ponctuelles du plan, et quelques apercus sur ses relations avec la géométrie différentielle et la théorie des fonctions analytiques. (Italian summary) *Rend. Mat.* (6) 3 (1970), 683-714 (1971). (Aristide Sanini) 44 #7447

Sur une représentation sphérique des surfaces de E^4 dans E^3. Représentations conformes et groupes correspondants dans E^4. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1557-1565. (A. Fialkow) 43 #8010

Sur certains groupes de transformations laissant invariant l'ensemble des surfaces minimales du type de Riemann de E^4. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A136-A137. (Author's introduction) 42 #6732

Vincent, Bernadette

(with Mathier, Yves) Sur la structure d'un sous-groupe particulier d'un groupe de noeuds. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1562-A1563. (D. E. Cohen) 43 #5519

Vincent, G. A.

(with Rife, D. C.) Use of the discrete Fourier transform in the measurement of frequencies and levels of tones. *Bell System Tech. J.* 49 (1970), 197-228. (Authors' summary) 40 #5327

Vincent, O.

(with Benichou, M.; Gauthier, J. M.; Girodet, P.; Hentges, G.; Ribière, G.) Experiments in mixed-integer linear programming. *Math. Programming* 1 (1971), *no.* 1, 76-94. (M. Rössler) 44 #6333

Vincent, Philippe

Sur la notion de point de partage dans les ensembles ordonnés et son application aux limites dans les catégories. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A9-A10. (O. E. Villemayor) 36 #233

Sur la dimension des catégories de foncteurs d'un ensemble ordonné vers une catégorie. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A277-A280. (O. Wyler) 36 #234

Construction explicite d'une complétion inductive libre pour une catégorie quelconque. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A816-A819. (J. Sonner) 36 #3847

Un théorème de décomposition unique pour les ensembles ordonnées finis connexes. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A493-A496. (Author's summary) 38 #1030

Vincent, Philippe H. Droz. See Droz-Bincent, Philippe H.

Vincent, Thomas L.

(with Mason, Joseph D.) Disconnected optimal trajectories. *J. Optimization Theory Appl.* 3 (1969), 263-281. (G. M. Ewing) 39 #7489

(with Brusch, Richard G.) Numerical implementation of a second-order variational endpoint condition. *AIAA J.* 8 (1970), 2230-2235. (F. V. Pohle) 42 #5427

(with Basile, Giuseppe) Absolutely cooperative solution for a linear, multiplayer differential game. *J. Optimization Theory Appl.* 6 (1970), 41-46. (J. Fichefet) 42 #1532

(with Leitmann, G.) Control-space properties of cooperative games. *J. Optimization Theory Appl.* 6 (1970), 91-113. (W. F. Lucas) 42 #5650

Vincent-Carrefour, J.

Optimisation d'un schema en logique modulaire. *Rev. Française Traitement Information [Chiffres]* 7 (1964), 217-250. (M. Yoeli) 30 #5818

Vincent-Smith, G. F.

The Hahn-Banach theorem for modules. *Proc. London Math. Soc.* (3) 17 (1967), 72-90. (D. Dean) 35 #766

(with Edwards, D. A.) A Weierstrass-Stone theorem for Choquet simplexes. (French summary) *Ann. Inst. Fourier (Grenobl* 18 (1968), *fasc.* 1, 261-282, vi. (E. G. Effros) 39 #6060

(with Davies, E. B.) Tensor products, infinite products, and projective limits of Choquet simplexes. *Math. Scand.* 22 (1968), 145-164 (1969). (H. E. Lacey) 39 #4638

Uniform approximation of harmonic functions. (French summar *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 2, 339-353 (1970) (B. Walsh) 43 #2236

A choquet boundary theory for measures taking values in a Stone algebra. *J. London Math. Soc.* 44 (1969), 553-558. (G. Maltese) 39 #1950

Positive maps between partially ordered bimodules. *Proc. London Math. Soc.* (3) 19 (1969), 661-674. (S. Sakai) 40 #6278

Vinciguerra, Renato

Calcolo numerico delle trasformate di Hilbert ed applicaioni. (English summary) *Calcolo* 4 (1967), 453-484. (G. F. Mill 43 #8270

Calcolo numerico degli integrali di Fourier di funzioni discontinue. *Calcolo* 5 (1968), 295-304. (S. Guerra) 43 #2850

Risoluzione numerica dell'equazione integrale di Carleman ed inversione della trasformata di Tricomi. *Calcolo* 5 (1968), 309-332. (G. F. Miller) 42 #7101

Polinomi di Tchebycheff generalizzati. (English summary) *Rend. Mat.* (6) 1 (1968), 177-189. (F. Liverani) 38 #6283

Vincze, Endre

Über eine Verallgemeinerung der Pexiderschen Funktionalgleichungen. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 7 (1962), *no.* 1, 103-106. (I. N. Baker) 30 #5082

Eine allgemeinere Methode in der Theorie der Funktionalgleichungen. III, IV. *Publ. Math. Debrecen* 10 (1963), 191-202; *ibid.* 10 (1963), 283-318. (A. Nijenhuis) 29 #3781

(with Aczél, J.) Über eine gemeinsame Verallgemeinerung zweier Funktionalgleichungen von Jensen. *Publ. Math. Debrecen* 10 (1963), 326-344. (A. Haimovici) 29 #3782

Beitrag zur Theorie der Cauchyschen Funktionalgleichungen. *Arch. Math.* 15 (1964), 132-135. (B. Schweizer) 29 #390

Über eine Verallgemeinerung der Cauchyschen Funktionalgleichung. *Funkcial. Ekvac.* 6 (1964), 55-62. (B. Schweizer) 29 #6211

Solutions of alternative functional equations. (Hungarian. German summary) *Mat. Lapok* 15 (1964), 179-195. (Z. Daróczy) 31 #2524

Über die Lösung der Funktionalgleichung $f[y + xg(y)] = L[h(x), k(y)]$. *Ann. Polon. Math.* 18 (1966), 115-119. (J. Aczél) 33 #6185

A general method for the solution of certain classes of functional equations. I, II, III. (Hungarian. German summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 179-208; *ibid.* 16 (1966), 301-331; *ibid.* 16 (1966), 423-444. (St. Fenyö (Zbl 157, 222)) 42 #713

(with Tevan, Gy.) Beitrag zur Theorie der Charakterisierung von Determinantenfunktion. *Publ. Math. Debrecen* 15 (1968), 79-86 (G. F. Clements) 39 #226

Über ein Funktionalgleichungsproblem von E. Hille. *Arch. Math. (Basel)* 21 (1970), 489-501. (J. Aczel) 43 #2378

Vincze, István

Some questions on the probabilistic concept of information. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 12 (1962), 7-14. (A. Rényi) 29 #2930

On a Gaussian stochastic process. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 12 (1962), 35-46. (A. Rényi) 29 #2856

(with Csáki, E.) Two joint distribution laws in the theory of order statistic. *Mathematioa (Cluj)* 5(28) (1963), 27-37. (C. Hayashi) 31 #1746

A generating function in the theory of order statistics. *Publ. Math. Debrecen* 10 (1963), 82-87. (L. Schmetterer) 30 #671

On some combinatorial relations concerning the symmetric random walk. *Rev. Math. Pures Appl. (Bucarest)* 8 (1963), 263-266. (R. Pyke) 31 #4057

(with Csáki, E.) On some distributions connected with the arcsine law. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 281-291 (1964). (K. L. Chung) 29 #4078

Über einige Verteilungssätze in der Theorie der geordneten Stichproben. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1964, *no.* 4, 123-126. (Author's summary) 32 #525

Über das Ehrenfestsche Modell der Wärmeübertragung. *Arch. Math.* 15 (1964), 394-400. (J. H. B. Kemperman) 31 #5242

On the power-function of the Kolmogorov-Smirnov and other non-parametric tests. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 15 (1965), 97-105. (Editors) 38 #1798

On some questions connected with two-sample tests of Smirnov type. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif.,* 1965/66), *Vol. I: Statistics, pp.* 657-666. *Univ. California Press, Berkeley, Calif.,* 1967. (W. Hoeffding) 37 #2390

(See also Studies in mathematical statistics: Theory and applications, 37 #2346)

On the power of the Kolmoborov-Smirnov two-sample test and related non-parametric tests. *Studies in Mathematical Statistics: Theory and Applications, pp.*201-210. *Akad. Kiadó, Budapest,* 1968. (D. R. Truax) 37 #4929

On Kolmogorov-Smirnov type distribution theorems. With discussion by H. A. David. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969), *pp.* 385-403. *Cambridge Univ. Press, London,* 1970. (G. K. Eagleson) 43 #2813

ncze, Jean

(with Maurer, I. Gy.) On cyclic rings. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 9 (1964), *no.* 1, 25-28. (A. Rosenberg) 31 #5881

(with Vincze, Marie) Sur l'approximabilité des structures algébriques. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A167-A168. (Editors) 39 #4080

ncze, Marie

(with Vincze, Jean) Sur l'approximabilité des structures algébriques. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A167-A168. (Editors) 39 #4080

nek, G.

(with Neckel, A.; Kuzmany, P.) Berechnung der elektrostatischen Wechselwirkungsenergie für ein Kristallgitter zylindersymmetrischer Teilchen. *Z. Naturforsch.* 26a (1971), 561-568. (J. T. Cushing) 43 #7177

ner, I. Ja.

A method for the approximate determination of the solutions of quasilinear differential-difference equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 25-30. (L. Èl'sgol'c (RŽMat 1964 #7 B256)) 40 #1679

Approximate solution of certain classes of quasilinear differential-difference equations. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 31-37. (Ju. Rabinovič (RŽMat 1964 #7 B257)) 40 #1680

Distribution of the *k*th powers of natural numbers. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 49-50. 40 #1332

A certain differential-difference equation. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 38-40. (L. Èl'sgol'c (RŽMat 1964 #7 B258)) 40 #3014

Transformation of differential operators in a space of holomorphic functions. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 41-45. (I. Makarov (RŽMat 1964 #7 B493)) 40 #2891

A new proof of M. K. Fage's theorem on the *m*-analyticity of analytic functions. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 46-48. (I. Makarov (RŽMat 1964 #7 B529)) 40 #3059

Transformation of differential operators in the space of holomorphic functions. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.*1 (121), 185-188. (R. C. Gilbert) 31 #2439

Silberstein's functional equation. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 41 (1966), 5-8. (A. Lupaş) 37 #5558

Differential equations with involutions. (Russian) *Differencial'nye Uravenija* 5 (1969), 1131-1137. (S. P. Hastings) 40 #1681

Partial differential equations with involutions. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1320-1322. (L. E. Bobisud) 42 #4904

ner, N. See Wiener, Norbert.

ng H'en, Čan. See Tran Vinh-Hien.

nh, N. X.

(with Bebernes, J. W.) On the asymptotic behavior of linear differential equations. *Amer. Math. Monthly* 72 (1965), 285-287. (G. Sansone) 31 #6011

Generalized lemmas of the calculus of variations. *Amer. Math. Monthly* 74 (1967), 432-434. (H. C. Kranzer) 35 #840

(with Busemann, A.) Optimum constrained disorbit by multiple impulses. *J. Optimization Theory Appl.* 2 (1968), 40-64. (Authors' summary) 39 #3863

(with Busemann, A.; Kelley, G. F.) Optimum maneuvers of a skip vehicle with bounded lift constraints. *J. Optimization Theory Appl.* 3 (1969), 243-262. 39 #5190

nh-Hien, Tran. See Tran Vinh-Hien.

nničenko, M. G.

Counting the number of trees by height and degree. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 675-677. (B. M. Schein (Šaĭn) 30 #1068

Counting trees with the aid of generating functions. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 117-124. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (W. E. Coppage) 33 #7273

Enumeration of labelled trees. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 109-111. (J. Bosák) 34 #2502

Calculation of the abelian words made up from the letters of a certain collection of alphabets. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 243-245. (P. Ungar) 36 #6301

A certain combinatorial problem. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 780-782, 860. (A. Rosa) 42 #5812

Bases of the set of graphs with a given internal stability number. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 809-813. (J. Dénes) 43 #7364

Vinničenko, N. G. See Vinničenko, M. G.

Vinograd, R. È.

* (with Bylov, B. F.; Grobman, D. M.; Nemyckiĭ, V. V.) Теория показателей Ляпунова и ее приложения к вопросам устойчивости. [Theory of Ljapunov exponents and its application to problems of stability] *Izdat. "Nauka", Moscow,* 1966. 576 *pp.* (H. A. Antosiewicz) 34 #6234

(with Alekseev, V. M.) On the method of "freezing". (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 5, 30-35. (H. A. Antosiewicz) 34 #463

Accessibility of the central exponent. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1212-1217. (D. Wexler) 37 #6541

(with Aleksandrov, P. S.; Vaĭnberg, M. M.; Demidovič, B. P.) Viktor Vladimirovič Nemyckiĭ. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 2 (140), 179-192. (1 *plate*) (Editors) 36 #4947

A necessary and sufficient criterion, and the precise asymptotics of stability in the first approximation. (Russian) *Differencial'nye Uravnenija* 5 (1969), 800-813. (C. Corduneanu) 40 #2991

(with Izobov, N. A.) Solution of the Ljapunov stability problem by the first approximation. (Russian) *Differencial'nye Uravenija* 6 (1970), 230-242. (T. Čanturija) 42 #2122

Vinograde, Bernard

(with Mordeson, J. N.) Extension of certain subfields to coefficient fields in commutative algebras. *J. Math. Soc. Japan* 17 (1965), 47-51. (J. L. Zemmer) 32 #5683

* Linear and matrix algebra. *D. C. Heath and Co., Boston, Mass.,* 1967. x + 253 *pp.* (Editors) 36 #185

(with Mordeson, John N.) Generators and tensor factors of purely inseparable fields. *Math. Z.* 107 (1968), 326-334. (E. Inaba) 38 #5757

(with Haddix, G. F.; Mordeson, J. N.) On purely inseparable extensions of unbounded exponent. *Canad. J. Math.* 21 (1969), 1526-1532. (G. H. Wenzel) 42 #3062

(with Mordeson, J. N.) Tensor products of simple pure inseparable field extensions. *Proc. Amer. Math. Soc.* 20 (1969), 209-212. (S. Yuan) 38 #1081

(with Mordeson, J. N.) Note on relative ρ-bases of purely inseparable extension. *Proc. Amer. Math. Soc.* 22 (1969), 587-590. (G. H. Wenzel) 42 #3063

(with Mordeson, J. N.) Remark on coefficient fields of tensor procucts. *Formosan Sci.* 23 (1969), 1-3. (C. Vraciu) 41 #1707

(with Haddix, George F.; Mordeson, John N.) Lattice isomorphisms of purely inseparable extensions. *Math. Z.* 111 (1969), 169-174. (G. H. Wenzel) 41 #6822

* (with Mordeson, John N.) Structure of arbitrary purely inseparable extension fields. Lecture Notes in Mathematics, Vol. 173. *Springer-Verlag, Berlin-New York,* 1970. iv + 138 *pp.* (S. Yuan) 43 #1952

(with Mordeson, John N.) Exponents of purely inseparable extensions. *Arch. Math. (Basel)* 21 (1970), 483-486. (R. E. MacRae) 44 #187

(with Mordeson, John N.) Field composites with a bounded purely inseparable factor. *Math. Z.* 115 (1970), 311-314. (E. Inaba) 42 #239

(with Mordeson, J. N.) Exponents and intermediate fields of purely inseparable extensions. *J. Algebra* 17 (1971), 238-242. (J. J. Malone, Jr.) 44 #5304

(with Mordeson, J. N.) Separating *p*-bases and transcendental extension fields. *Proc. Amer. Math. Soc.* 31 (1972), 417-422. (M. Fried) 44 #6655

(Mordeson, J. N.) On high order derivations of fields. *Proc. Amer. Math. Soc.* 32 (1972), 421-422. (S. Yuan) 44 #6656

Vinogradoff, I. M. See Vinogradov, I. M.

Vinogradov, A. I.

(with Barban, M. B.) On the number-theoretic basis of probabilistic number theory. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 495-496. (J. H. B. Kemperman) 29 #1194

On the density hypothesis and the quasi-Riemann hypothesis. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1014-1017. (S. Chowla) 30 #68

The sieve method in algebraic fields. Lower bounds. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 52-78. (S. Chowla) 29 #1195

On the continuability into the left half-plane of the scalar product of Hecke *L*-series with Grössencharaktere. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 485-492. (S. Chowla) 31 #3395

On the symmetry property for sums with Dirichlet characters. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 9 (1965), *no.* 1, 21-27. (H.-E. Richert) 31 #136

The density hypothesis for Dirichlet *L*-series. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 903-934. (R. A. Rankin) 33 #5579 (E) (with Barban, M. B.; Levin, B. V.) Limit laws for functions of the class H of I. P. Kubiljus which are defined on a set of "shifted" primes. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 5-8. (J. Kubilius) 34 #5794

(with Linnik, Ju. V.) Hypoelliptic curves and the least prime quadratic residue. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 259-261. (J. Kubilius) 35 #125

Correction to the paper of A. I. Vinogradov "On the density hypothesis for the Dirichlet L-series". (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 719-720. (Editors) 33 #2607

(See also Prachar, Karl, 41 #8358)

On the cubic Gaussian sum. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 123-148. (S. Knapowski) 34 #7481; erratum, 37, p. 1469 (E)

Letter to the editor. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 455. (Editors) 40 #4219

(with Sprindžuk, V. G.) The representation of numbers by binary forms. (Russian) *Mat. Zametki* 3 (1968), 369-376. (J. B. Roberts) 37 #151

(with Levin, B. V.; Malyšev, A. V.; Romanov, N. P.; Čudakov, N. G.) Mark Borisovič Barban: Obituary. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 2 (146), 213-216 (1 *plate*). (Editors) 39 #1276

Vinogradov, A. M.

Some homotopy properties of the space of imbeddings of the circle into a sphere or a ball. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 999-1002. (A. A. Kosinski) 32 #1721

(See also Crowell, Richard H.; Fox, Ralph H., 36 #2136)

General Hardy-Littlewood equation. (Russian) *Mat. Zametki* 1 (1967), 189-197. (H.-E. Richert) 34 #7485

A Morse theory of nonmultiple closed curves. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 11-14. (D. Burghelea) 41 #7722

Vinogradov, Anatoliĭ Andreevič

Metabelian partially ordered groups. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.*, 20-26. (S. Lajos) 33 #5757

Ordered algebraic systems. (Russian) *Algebra. Topology. Geometry.* 1966 *(Russian), pp.* 91-108. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. (John Ellis) 38 #4366

Ordered algebraic systems. (Russian) *Algebra, Topology, Geometry,* 1965 *(Russian), pp.* 83-131. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. (B. M. Schein (Šaĭn) 35 #6596

Minimal quasi-varieties of rings and relation algebras. (Russian) *Algebra i Logika* 6 (1967), *no.* 4, 3-10. (V. Dlab) 42 #5885

(with Vinogradov, Andr. A.) Nonlocalness of lattice-orderable groups. (Russian) *Algebra i Logika* 8 (1969), 636-639. (O. Frink) 43 #1904

Nonaxiomatizability of lattice-orderable groups. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 463-464. (B. Šmarda) 44 #132

Vinogradov, Andreĭ Anatol′evič

On the realization of a relation in a topological group. (Russian) *Algebra i Logika Sem.* 3 (1964), *no.* 3, 13-15. (J. Mycielski) 30 #187

On the decomposability of algebras in a certain quasi-variety. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 5, 47-53. (B. Vinograde) 33 #1267

Maximum primitive classes in certain quasivarieties. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 5, 55-65. (B. Vinograde) 33 #1268

Quasivarieties of Abelian groups. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 6, 15-19. (R. S. Pierce) 33 #7411

On the decomposability of algebras of a certain class into a direct product of simple algebras. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 14-17. (B. Vinograde) 33 #1266

Certain properties of quasi-varieties of nilpotent groups. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 4, 5-13. (R. S. Pierce) 34 #4355

(with Vinogradov, Anat. A.) Nonlocalness of lattice-orderable groups. (Russian) *Algebra i Logika* 8 (1969), 636-639. (O. Frink) 43 #1909

Vinogradov, I. M.

Основы теории чисел [Foundations of the theory of numbers] Seventh revised edition. *Izdat. "Nauka", Moscow,* 1965. 172 *pp.* (Editors) 32 #7472

On the estimation of trigonometric sums. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 493-504. (S. Knapowski) 31 #5843

An estimate for a certain sum extended over the primes of an arithmetic progression. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 481-496. (S. Chowla) 33 #2608

(with Postnikov, A. G.) On the status and basic directions of the development of investigations in the field of the analytic theory of numbers. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 3-14. (A. E. Ingham) 35 #113

(with Postnikov, A. G.) Recent developments in analytic number theory. (Russian) *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 163-176. *Izdat. "Mir", Moscow,* 1968. (J. Kubilius) 39 #138

Vinogradov, Ju. A.

Finitely valued models of schemes with discrete operation. (Russian) *Problemy Kibernet. No.* 23 (1970), 119-126, 303. (Pa Strnad) 44 #8061

Vinogradov, N. N.

Some existence theorems for a periodic solution of an auto omous system of six differential equations. (Russian) *Differencial'nye Uravnenija* 1 (1965), 330-334. (Editors) 33 #6039

Certain existence theorems for a periodic solution and theorems on determining the boundary of a region of asymptotic stability of the trivial solution of a system of ordinary differ ential equations. (Russian) *Differencial'nye Uravnenija* 1 (1965), 442-448. (V. Lakshmikantham) 32 #7866

Vinogradov, O. P.

An age-dependent branching process. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 146-152. (Author's summary) 29 #5296

The distribution of the maximum of the queue length in a single-line queueing system. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 3, 257-262. (Judah Rosenblatt) 42 #1243

Limit distributions for the moment of the first loss of request in a single line queue with a bounded number of waiting places. (Russian) *Mat. Zametki* 3 (1968), 541-546. 37 #2341

A problem on the distribution of the maximum of a queue len and its application. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 366-375. (D. J. Daley) 38 #531

Vinogradov, S. A.

On the interpolation and zeros of power series with a seque of coefficients in l^p. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 263-266. (J.-P. Kahane) 31 #317

On the interpolation of power series which converge absolut on the unit circle. (Russian. English summary) *Vestnik Leningr Univ.* 20 (1965), *no.* 7, 30-44. (Author's summary) 35 #4441

The interpolation of power series whose sequence of coefficients is from l^p. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 3, 83-85. (W. K. Hayman) 36 #2809

Paley singularities and Rudin-Carleson interpolation theore for certain classes of analytic functions. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 511-514. (L. Longdon) 36 #6629

Vinogradov, V. N.

The synthesis of optimal systems of a certain class with a restriction on the control action. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 427-434. (C. Olech) 31 #1147

(with Livšic, N. A.; Golubev, G. A.) Linear filtering in th presence of a singular noise intensity matrix. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 3, 127-135 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 3, 117-125. (D. Rappaport) 42 #5699

Vinogradov, V. S.

Nonsingular pseudo-symmetric matrix polynomials. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 463-466. (H. Schwerdtfeger) 34 #770

An analog of the Cauchy type integral for analytic functions of several complex variables. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 282-285. (H. Tornehave) 37 #3043

The Dirichlet problem for multidimensional second order elliptic systems. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 766-767. (G. W. Hedstrom) 37 #6606

Liouville's theorem for generalized analytic functions. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 503-506. (R. A. Kordzadze) 40 #2888

A certain boundary value problem for an elliptic system of special form. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1226-1234, 1341. (M. A. Atahodžaev) 44 #4362

A boundary value problem for a first order elliptic equatio on the plane. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1440-1448, 1541. (M. A. Atahodžaev) 44 #4363

A certain elliptic system without Noetherian boundary value problems. *Dokl. Akad. Nauk SSSR* 199 (1971), 1008-1010 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1223-1226. (R. C. MacCamy) 44 #7122

A certain method of solution of a boundary value problem fo a first order elliptic system on the plane. (Russian) *Dokl. Akad. Nauk SSSR* 201 (1971), 767-770. (Ja. A. Roĭtberg) 44 #712

Vinogradova, G. N.

(with Baskakov, V. A.) Approximation of functions by the operators $L_n (f, x)$. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 52-58. (John R. Scheick) 33 #7756

On the transformation of certain positive operators. (Russi *Volž. Mat. Sb. Vyp.* 3 (1965), 62-68. (John T. Scheick) 34 #318

Transformation of positive operators. (Russian) *Theory of Functions and Differential Equations (Russian), pp.* 52-60. *Izdat. Saratov. Univ., Saratov,* 1966. (J. B. Roberts) 36 #4227

Asymptotic value of approximation of functions by operators of a certain class. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 24-29. (J. T. Scheick) 36 #584

The convergence of a sequence of transformed operators. (Russian) *Kaliningrad. Gos. Univ. Učen. Zap. Vyp.* 1 (2) (1969), 109-119. (B. Bojanov) 43 #7833

inogradova, I. A.

On a certain restriction of the *A*-integral. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 365-387. (J. Mařík) 35 #1731

inogradova, I. Ju.

The approximation of functions of a complex variable by polynomials with specially selected coefficients. (Russian) *Mathematical Analysis and its Applications (Russian), pp.* 40-50. *Izdat. Rostov. Univ., Rostov-na-Donu,* 1969. (L. Zalcman) 44 #1817

(with Al'per, S. Ja.) Approximation in the mean by polynomials with entire coefficients on curves in the complex plane. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 547-563. (L. Berg) 43 #529

nogradova, M. T.

Focal *T*-pairs of complexes. (Russian) *Orenburg. Gos. Ped. Inst. Učen. Zap. Vyp.* 21 (1967), 40-45. (V. Bolodorin (RŽMat 1968 #10 A468)) 41 #9121

(with Smirnova, V. V.) Unilaterally stratifiable pairs of families of (2 - 2)-planes in E_5. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 1 (104), 9-20. (R. Draščić) 44 #3219

nogradova, T. D.

Integer distributive problem. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 4, 47-53 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 4, 44-50. (M. J. Beckmann) 42 #1498

nogradow, I. M. See Vinogradov, I. M.

nogradskiĭ, A. S.

Boundary properties of surfaces with slowly changing negative curvature. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 285-299. (I. Vaisman) 42 #1028

Causes for the nonextendability of surfaces of negative curvature bounded away from zero beyond a smooth boundary. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 25 (1970), *no.* 5, 83-86. (M. Haimovici) 44 #5868

nokur, Marc

Optimisation dans la recherche d'une sinusoïde de période connue en présence de bruit. Application à la radioastronomie. I. (English and Russian summaries) *Ann. Astrophys.* 28 (1965), 412-445. (E. A. Robinson) 31 #5722

nokurov, V. A.

(with Ivanov, Ju. N.) Generalized Newton's method for solving boundary-value problems. *Kosmič. Issled.* 3 (1965), 534-539 *(Russian); translated as Cosmic Research* 3 (1965), 423-427. (Carl de Boor) 33 #6843

On the limit at infinity of a continuous function. (Russian) *Mat. Zametki* 1 (1967), 277-282. (H. Fast) 34 #7735

A certain necessary condition for Tihonov regularizability. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 530-531. (Z. V. Kovarik) 44 #7393

The error in solving linear operator equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 830-839. (J. Daneš) 43 #3821

General error properties of the approximate solution of linear functional equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 22-28. (G. Vainikko) 44 #2371

The notion of regularizability for discontinuous mappings. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 1097-1112. (Z. V. Kovarik) 44 #7394

inokurov, V. G.

Representations of partially ordered sets and topological spaces. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1963, *no.* 5, 5-13. (H. Komm) 32 #6396

On additional representations of algebras with measure. (Russian) *Theory Probability Math. Statist. (Russian), pp.* 126-129. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. (R. Sikorski) 33 #2583

Infinite products of Lebesgue spaces. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1247-1249. (S. Kurepa) 31 #3571

On the continuous product of Lebesgue spaces. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 255-257. (S. Warner) 31 #4886

Spaces with a measure of continual weight. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 1307-1309. (S. Warner) 33 #2788

Lattice method of defining dimension. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 504-507. (David W. Henderson) 33 #3262

Compact measures of continual weight. (Russian) *Limit Theorems Statist. Inference (Russian), pp.* 5-13. *Izdat. "Fan", Tashkent,* 1966. (E. M. Klimko) 34 #1477

(with Mahkamov, B.) Lebsgue subspaces of non-Lebesgue measure spaces. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 6, 5-10. (J. L. Denny) 36 #5298

Compact measures, and products of Lebesgue spaces. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 434-472. (E. M. Klimko) 36 #1605

(with Mahkamov, B.) Lebesgue subspaces of the space of trajectories of a random process. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1255-1256. (A. Badrikian) 37 #5929

Two nonisomorphic exact endomorphisms of a Lebesgue space with isomorphic decomposition sequences. (Russian) *Stochastic Processes and Related Problems. Part* 1 *(Russian), pp.* 43-45. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1970. (D. Newton) 42 #6190

Vinokurov, V. R.

A remark concerning A. Pratov's paper: "Stability of the solutions of integral equations. I". (Russian) *Studies in Integro-differential Equations in Kirghizia, No.* 2 *(Russian),* 350. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. (L. Krivošein (RŽMat 1963 #9 B300)) 37 #5734

Approximation on an infinite interval to a system of Volterra integral equations by a system of algebraic equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 5 (36), 24-29. (F. Smithies) 29 #2611

On the definition of dynamic limit point in general dynamical systems. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 3 (40), 36-38. (W. A. Coppel) 29 #1633

A method of investigating the asymptotic properties of the resolvent of a system of Volterra integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 24-31. (H. P. Thielman) 30 #4127

The order of exponential growth of a solution of a system of a solution of a system of linear Volterra integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 24-29. (RŽMat 1965 #10 B211) 35 #2101

A method of approximation to unbounded solutions of a system of quasi-linear Volterra integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 3 (46), 46-50. (H. P. Thielman) 31 #6106

The asymptotic behavior of solutions of a class of Volterra's integro-differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1732-1744. (J. F. Heyda) 36 #5644

Positive and monotone solutions of Volterra integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 40-46. (O. E. Stanaitis) 35 #3392

Optimal control of processes describable by integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 7 (62), 21-33. (V. Lakshmikantham) 36 #2035

Optimal control of processes describable by integral equations. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 8 (63), 16-23. (V. Lakshmikantham) 36 #2036

Optimal control of processes describable by integral equations. III. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 9 (64), 16-25. (V. Lakshmikantham) 36 #2037

Volterra integral equations with infinite interval of integration. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1894-1898. (C. Corduneanu) 40 #7747

Certain questions in the theory of the stability of systems of Volterra integral equations. I. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 24-34. (C. Corduneanu) 40 #4707a

Certain questions in the theory of the stability of systems of Volterra integral equations. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 7 (86), 28-38. (C. Corduneanu) 40 #4707b

Optimal control of processes described by integral equations. I, II, III. *SIAM J. Control* 7 (1969), 324-336; *ibid.* 7 (1969), 337-345; *ibid.* 7 (1969), 346-355. (Editors) 40 #824 (E)

Nearly periodic solutions of a system of Volterra equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1323-1324. (Wazir Hasan Abdi) 43 #7884

Letter to the editors. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1532. (Editors) 42 #6544

Erratum: "Optimal control of processes described by integral equations. I". *SIAM J. Control* 8 (1970), 440. (Editors) 42 #2343

Vin'oli, A. See Vignoli, Alfonso.

Vinsonhaler, Charles

Orders in QF-3 rings. *J. Algebra* 14 (1970), 83-90. (T. Hannula) 40 #4307 (E)

Supplement to the paper: "Orders in QF-3 rings". *J. Algebra* 17 (1971), 149-151. (R. Hannula) 42 #3121

Vinter, È. See Winter, Eduard J.

Vinti, Calogero

(with Baiada, E.) Sulla validità della proprietà fondamentale della trasformazione di Fourier. *Rend. Circ. Mat. Palermo* (2) 11 (1962), 185-203. (J. Deny) 32 #2838

L'integrale di Weierstrass e l'integrale des Calcolo delle Variazioni in forma parametrica. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 97 (1963), 101-114. (E. Baiada) 29 #3920

Perimetro - variazione. *Ann. Scuola Norm. Sup. Pisa* (3) 18 (1964), 201-231. (E. Baiada) 29 #5983

Sull'approssimazione in perimetro e in area. *Atti Sem. Mat. Fis. Univ. Modena* 13 (1964), 187-197. (W. H. Fleming) 32 #5842

Famiglie stocastiche e perimetro in distribuzione. *Atti Sem. Mat. Fis. Univ. Modena* 13 (1964), 198-207. (W. H. Fleming) 32 #2555

Su una specie di dipendenza continua delle soluzioni dal dato iniziale, per l'equazione $p = f(q)$, in una classe ove manca l'unicità. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 251-263. (E. Baiada) 32 #2718

Proprietà di alcuni integrali del calcolo delle variazioni. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 173-195. (E. Baiada) 34 #1898

Su una specie di dipendenza continua delle soluzioni dal dato iniziale, per l'equazione $p = f(q)$, in una classe ove manca l'unicità. *Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi,* 1965), *pp.* 140-142. *Edizioni Cremonese, Rome,* 1966. (E. Baiada) 34 #1661

L'integrale di Fubini-Tonelli nel senso di Weierstrass. I. Caso parametricol *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 229-263. (E. Baiada) 37 #6809

L'integrale di Fubini-Tonelli nel senso di Weierstrass. II. Caso ordinario. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 355-376. (E. Baiada) 38 #2650

Convergenza in area. *Atti Sem. Mat. Fiz. Univ. Modena* 17 (1968), 29-46. (E. Baiada) 38 #2279

Un integrale del tipo di Weierstrass. *Theory and Applications of Monotone Operators (Proc. NATO Advanced Study Inst., Venice,* 1968), *pp.* 333-342. *Edizioni "Odersi", Gubbio,* 1969. (E. Baiada) 41 #4344

L'integrale di Weierstrass-Burkill. *Atti Sem. Mat. Fis. Univ. Modena* 18 (1969), *fasc.* 2, 295-316. (S. Foglio) 41 #1946

Vinti, John P.

The spheroidal method for satellite orbits. (Russian summary) *The Use of Artificial Satellites for Geodesy (Proc. First Internat. Sympos., Washington, D. C.,* 1962), *pp.* 12-16. *North-Holland, Amsterdam,* 1963. (J. M. A. Danby) 29 #4592

Zonal harmonic perturbations of an accurate reference orbit of an artificial satellite. *J. Res. Nat. Bur. Standards Sect. B* 67B (1963), 191-222. (I. G. Izsak) 29 #5619

Invariant properties of the spheriodal potential of an oblate planet. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 1-16. (R. A. Struble) 33 #6886

Inclusion of the third zonal harmonic in an accurate reference orbit of an artificial satellite. *J. Res. Nat. Bur. Standards Sect. B* 70B (1966), 17-46. (R. A. Struble) 33 #6887

Conservation laws and Liapounov stability of the free rotation of a rigid body. *Celestial Mech.* 1 (1969/70), 59-71. (Author's summary) 40 #6820

Viola, Tullio

(See Carruccio, Ettore, 33 #4508a-b)

Viot, Michel

Théorème d'optimalité pour des systèmes stochastiques où la commande est adaptée à l'état. *Rev. Française Informat. Recherche Opérationnelle* 2 (1968), *no.* 10, 115-128. (E. Parzen) 41 #3160

Virabian, G. V. See Virabjan, G. V.

Virabjan, G. V.

Completeness of the system of eigenfunctions for a class of boundary value problems with an indefinite form. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 43 (1966), *no.* 1, 15-20. (R. C. Gilbert) 35 #1985

A new completeness proof for a system of generalized characteristic functions, generated by the equation for the vibration of a string. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 44 (1967), *no.* 5, 193-199. (R. C. Gilbert) 36 #2991

n-tuple completeness for a class of polynomial operator bundles. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 48 (1969), 65-70. (R. C. Gilbert) 41 #2246

The completeness of the combined system of eigenelements of a finite-dimensional operator and its adjoint. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 51 (1970), 196-202. (A. Lee) 44 #6718

Virabyan, G. V. See Virabjan, G. V.

Virág, Imre

(with Maurer, I. Gy.; Purdea, I.) Une topologie dans l'espace des applications univoques d'un ensemble. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 195-206 (1964). (H. de Vries) 32 #4670

(with Maurer, I. Gy.) Observations on the normal form of the elements of a group. (Romanian. Russian and French summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 7 (1962), *no.* 1, 19-23. (I. M. H. Etherington) 32 #138

(with Maurer, I. Gy.) Note on Cayley's grouptheoretical theorem. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 10 (1967), 55-56. (J. S. Frame) 40 #249

(with Maurer, I. Gy.) Eine Verallgemeinerung des direkten Produktes. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 61-69. (B. H. Neumann) 38 #5931

(with Maurer, Iulius Gy.) Quelques observations sur les sous-groupes normaux complètement réductibles d'un groupe. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 659-663. (L. Dornhoff) 41 #6982

Über die Zerlegung von Gruppen. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 14 (1969), *no.* 1, 11-16. (R. W. Carter) 40 #5741

Some properties of finite groups with solvable and nilpoten maximal subgroup. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 743-748. (H. Bechtell) 41 #8511

Systèmes réguliers de Ω-sous-groupes d'un Ω-groupe. I. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Mech.* 15 (1970), *fasc.* 2, 3-7. (T. S. Shores) 43 #6320

Virag, L.

Analysis of the problem of automatic optimization of a linear diophantine object. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1967, *no.* 1, 18-24. (V. Baulin) 36 #2390

Virasoro, M. A.

(with Kikkawa, K.; Sakita, B.) Feynman-like diagrams compatible with duality. I. Planar diagrams. *Phys. Rev.* (2) 184 (1969), 1701-1713. (G. Bandyopadhyay) 42 #4131

Vīrčenko, N. O.

Some boundary-value problems for x-analytic functions. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraîn. RSR* 1963, 1577-1581. (Author's summary) 29 #2408

An integral relation in the class of x^k-analytic functions. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraîn. RSR* 1964, 734-736. (Editors) 29 #2409

The solution of certain boundary value problems for a quadrant in the class of x^k-analytic functions. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 101-107. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (D. A. Brannan) 40 #2889

(with Paharēva, N. O.) On formulas of connection between x^k analytic functions for different values of k. (Russian) *Math. Phys.* (1966) *(Russian), pp.* 106-114. *Naukova Dumka, Kiev,* 1966. 34 #2911

(with Paharēva, N. O.) Integral transforms in a class of p-analytic functions with characteristic $p = x^k$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraîn. RSR* 1966, 588-592. (Authors' summary) 34 #1533

(with Paharēva, N. O.) Certain boundary value problems for the half-strip in the class of x-analytic functions. (Ukrainian. Russian and English summaries) *Vīsnik Kiīv. Unīv.* 1966, *no.* 8, 67-72. (B. S. Mitjagin) 38 #2314

(with Paharēva, N. O.) The solution of a boundary value problem in axially symmetric potential theory for a spatial layer (Russian. English summary) *Math. Phys. No.* 3 (1967) *(Russian), pp.* 220-224. *Naukova Dumka, Kiev,* 1967. (I. Aganovič) 35 #5648

(with Paharēva, N. O.) Integral representation of p-analyti functions with characteristic $p = x^{2n}y^l$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraîn. RSR Ser. A* 1967, 124-127. (Authors' summary) 34 #6129

(with Paharēva, N. O.) A new integral representation for p-analytic functions with characteristic $p = x^k$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraîn. RSR Ser. A* 1967, 686-691. (J. F. Heyda) 35 #5641

(with Paharēva, N. O.) The fundamental integral representation of p-analytic functions with characteristic $p = x^k y^l$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraîn. RSR Ser. A* 1967, 790-794. (P. Caraman) 36 #1680

(with Dobrovol's'kiĭ, V. O.; Mītropol'skiĭ, Ju. O.; Smogorževs'kiĭ, O. S.) Mihail Filippovič Kravčuk. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 85-91. (Editors) 36 #3623

Certain recurrence relations in the theory of p-analytic functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraîn. RSR Ser. A* 1970, 1067-1069, 1148. (Author's summary) 44 #451

Vircer, A. D.

A central limit theorem for semisimple Lie groups. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 685-704. (R. G. Laha) 44 #2263

Virgil Negoită, Constantin. See Negoită, Constantin Virgil.

Virgopia, Nicola

(with Arcidiacono, Giuseppe) Breve introduzione alla teoria geometrica degli spinori. (English summary) *Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* 126 (1967/68), 159-199. (Authors' summary) 41 #1336

Virkkunen, Juhani

Theory and methods for a system of linear algebraic equation and linear programming by the Jordan exchange method. (Finnish. English summary) *Arkhimedes* 1967, *no.* 2, 24-34. (P. Laasonen) 38 #4016

Vîrlan, I.

(with Stavre, P.) The Codazzi equations for a V_{n-1} in a V_n. (Romanian, Russian, English, French and German summaries) *Bul. Politehn. Bucureşti* 32 (1970), *no.* 4, 35-37. (V. Oproiu) 44 #2176

Virot, Bernard

Sur le modèle de Rota d'une contraction stricte d'un espace de Hilbert complexe séparable. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A130-A133. (P. A. Fillmore) 40 #777

Vîrsan, Constantin

An optimum problem for linear systems with phase constraints. *J. Math. Anal. Appl.* 14 (1966), 309-319. (L. D. Berkovitz) 33 #1169

Sur le lemme de Neyman-Pearson et la programmation linéaire. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A685-A687. (J. J. Stone) 34 #7206

The Neyman-Pearson lemma and linear programming. (Russian) *Rev. Roumaine Math. Pures Appl.* 12 (1967), 279-293. (V. F. Dem′janov) 36 #2387

Necessary conditions for optimal control problems with equality-type mixed constraint. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 127-147. (S.-C. Huang) 44 #1471

Virsik, Juraj

Holonomic constraints and equations of motion in Minkowskian mechanics. (Czech. Russian and English summaries) *Apl. Mat.* 10 (1965), 321-350. (V. Hlavatý) 32 #973

(with Jelínek, Jiří) Pseudo-unitary spaces. (Czech and Russian summaries) *Časopis Pěst. Mat.* 91 (1966), 18-33. (A. Mallios) 34 #6486

The representation of inertial particles in the Lie algebra of the Lorentz group. (Russian and English summaries) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 82-90. (R. Keown) 34 #7184

Non-holonomic connections on vector bundles. I. *Czechoslovak Math. J.* 17(92) (1967), 108-147. (R. L. Bishop) 35 #916

Non-holonomic connections on vector bundles. II. (Russian summary) *Czechoslovak Math. J.* 17(92) (1967), 200-224. (R. L. Bishop) 35 #6076

Über Zusammenhänge höherer Ordnungen in Vektorraumbündeln. *Math. Nachr.* 34 (1967), 219-227. (K. H. Mayer) 35 #7249

A generalized point of view to higher order connections on fibre bundles. *Czechoslovak Math. J.* 19(94) (1969), 110-142. (P. Ver Eecke) 39 #3520; erratum, 39, p. 1594

Virsu, Marjatta

The local dilatations of maps with continuous characteristics in *n*-space. *Ann. Acad. Sci. Fenn. Ser. A I No.* 463 (1970), 10 *pp.* (S. B. Agard) 43 #5032

Virtanen, K. I.

* (with Lehto, O.) Quasikonforme Abbildungen. Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen mit besonderer Berücksichtigung der Anwendungsgebiete, Band 126. *Springer-Verlag, Berlin-New York,* 1965. xi + 269 *pp.* (L. V. Ahlfors) 32 #5872

Vişa, Eugen

An axiomatization of the theory of natural numbers equivalent to the Peano axiomatization. (Romanian. Russian and French summaries) *An. Univ. Timisoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 329-343. (Author's summary) 30 #1943

On the notion of section of the set of natural numbers. (Romanian. Russian and French summaries) *Gaz. Mat. Fiz. Ser. A* 15(68) (1963), 175-182. (Author's summary) 32 #3995

General definitions and certain fundamental properties of quadratic and pseudo-hyperbolic functions of a complex variable. (Romanian. French and Russian summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 353-362. (A. A. Armendáriz) 34 #6131

Visconti, Antoine

(with Carmona, J.) Structure of field quantities and *S*-operator. (French and Italian summaries) *Nuovo Cimento* (10) 29 (1963), 742-759. (H. Umezawa) 29 #6843

(with Le Gaillard, Y.) The structure of renormalization constants. (French and Italian summaries) *Nuovo Cimento* (10) 34 (1964), 914-931. (H. Umezawa) 33 #3651

Linear combinations of radiative corrections: Renormalization group and renormalization theory. (Italian summary) *Nuovo Cimento A* (10) 65 (1970), 617-636. (W. Faris) 41 #9537

Vishik, M. I. See Višik, M. I.

Vishik, S. M. See Višik, S. M.

Vishwakarma, L. N.

Certain recurrence relations involving a generalised function of the Struve's type. *Gaṇita* 16 (1965), 99-116. (J. A. Donaldson) 35 #3102

On the extension of some Bessel and Struve integrals. *Gaṇita* 17 (1966), 7-14. (R. K. Saxena) 37 #6503

Vişic, M. I. See Višik, M. I.

Višik, M. I.

Sur les problèmes aux limites pour des équations quasilinéaires elliptiques et paraboliques d'ordre supérieur. *Les Équations aux Dérivées Partielles (Paris, 1962), pp.* 213-218. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1963. (M. Coroi-Nedelcu) 29 #4994

On the first boundary value problem for quasilinear elliptic equations and systems of higher order. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 281-286. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (Colin Clark) 34 #500

(with Agranovič, M. S.) Elliptic boundary problems depending on a parameter. (Russian) *First Math. Summer School, Part I (Russian), pp.* 249-331. *Izdat. "Naukova Dumka", Kiev,* 1964. (P. C. Fife) 33 #414

(with Eskin, G. I.) Singular elliptic equations and systems of variable order. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 243-246. (J. Peetre) 29 #2515

(with Èskin, G. I.) General boundary-value problems with discontinuous boundary conditions. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 25-28. (J. Peetre) 30 #369

(with Agranovič, M. S.) Elliptic problems with a parameter and parabolic problems of general type. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 3 (117), 53-161. (L. Gårding) 33 #415

(with Kolmogorov, A. M.; Fomin, S. V.; Šilov, G. E.) Israil′ Moiseevič Gel′fand. (On his fiftieth birthday). (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 3 (117), 187-205. (1 *plate*) (Editors) 31 #20

(with Èskin, G. I.) Convolution equations in a bounded region. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 3 (123), 89-152. (H. J. Landau) 32 #2741

(with Èskin, G. I.) Convolution equations in a bounded region in spaces with weight norms. (Russian) *Mat. Sb. (N.S.)* 69(111) (1966), 65-110. (B. Panejah (RŽMat 1966 #12 B252)) 36 #1935

(with Èskin, G. I.) Parabolic convolution equations in a bounded region. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 162-190. (P. Szeptycki) 34 #6311

(with Eskin, G. I.) Normally solvable problems for elliptic systems of convolution equations. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 326-356. (P. Szeptycki) 36 #4125

(with Eskin, G. I.) Convolution equations of variable order. (Russian) *Trudy Moskov. Mat. Obšč.* 16 (1967), 25-50. (W. Zakowski) 37 #3404

(with Eskin, G. I.) Elliptic convolution equations in a bounded region and their applications. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 15-76. (P. Szeptycki) 35 #5757

(with Landis, E. M.) The theory of partial differential equations at Moscow University during 50 years. (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 5, 48-70. (L. Arkeryd) 36 #4110

Elliptic convolution equations in a bounded domain and their applications. (Russian) *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 409-420. *Izdat. "Mir", Moscow,* 1968. (Z. Zieleźny) 39 #3139

(with Èskin, G. I.) Sobolev-Slobodeckiĭ spaces of variable order with weighted norms, and their applications to mixed boundary value problems. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 973-997. (J. Albrycht) 38 #4991

(with Grušin, V. V.) A certain class of degenerate elliptic equations of higher orders. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 3-36. (L. Arkeryd) 40 #1706

(with Grušin, V. V.) Boundary value problems for elliptic equations which are degenerate on the boundary of the domain. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 455-491. (T. Kusano) 41 #2212

(with Èskin, G. I.) Mixed boundary value problems for elliptic systems of differential equations. (Russian) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom.* 2 (1969), 31-48. *(loose errata)* (G. W. Hedstrom) 44 #1930

(with Grušin, V. V.) Elliptic boundary value problems that are degenerate on a submanifold of the boundary. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 255-258. (I. Aganović) 41 #7291

(with Aleksandrov, P. S.; Oleĭnik, O. A.; Petrovskiĭ, I. G.; Sobolev, S. L.) Lazar Aronovič Ljusternik (on his seventieth birthday). (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 4 (154), 3-10. (1 *plate*) (Editors) 42 #7472

(with Aleksandrov, P. S.; Kolmogorov, A. N.; Oleĭnik, O. A.; Tihonov, A. N.) Ivan Georgievič Petrovskiĭ (On his seventieth birthday). (Russian) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 1, 111-117. (Editors) 43 #4616; erratum, 44, p. 1632

Višik, S. M.

(with Kobrinskiĭ, A. A.; Rozental′, A. L.) Separating partitions for a finite family of measures. *Teor. Verojatnost. i Primenen.* 9 (1964), 165-167 *(Russian. English summary); translated as Teor. Probability Appl.* 9 (1964), 148-149. (D. L. Burkholder) 32 #6502

(See also Singularities of differentiable maps, 39 #2172; Boardman, J. M., 39 #3504; and Thom, René, 39 #3514 and 39 #7621)

Some transversality theorems. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971), 140-156. (C. Teleman) 44 #4766

Višin, V. V.

Identity transformations in a four-valued logic. (Russian) *Dokl. Akad. Nauk SSSR* 150 (1963), 719-721. (D. H. Potts) 34 #1176

Vişinescu, Ecat. See Vişinescu Gionea, Ecaterina.

Vişinescu, M.

(with Stihi, M.) Integral equations in the one-channel relativistic case, including CDD poles. (French summary) *Rev. Roumaine Phys.* 11 (1966), 17-29. (R. L. Omnès) 33 #6999

(with Ciulli, S.; Ghika, Gr.; Stihi, M.) General solution of the one-channel-scattering singular integral equations. *Phys. Rev.* (2) 154 (1967), 1345-1357. (A. L. Heins) 34 #8740

Vişinescu Gionea, Ecaterina

Normally exhaustible bordered Riemann surfaces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 43-46. (Author's summary) 30 #3212

Extension to Riemann surfaces of a principle of Stoilow. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 14 (1965), *no.* 2, 99-109. (F. Huckemann) 36 #1643

The theorem of discs for closed bordered Riemann surfaces. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Mec.* 17 (1968), *no.* 2, 117-120. (Author's summary) 41 #1999

Topological properties of the bordered Riemann surfaces. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1281-1297. (Ian Richards) 43 #5025

Viskanta, Raymond

Effect of transverse magnetic field on hear transfer to an electrically conducting and thermal radiating fluid flowing in a parallel-plate channel. (German summary) *Z. Angew. Math. Phys.* 14 (1963), 353-368. (S. D. Nigam) 29 #3098

Some considerations of radiation in magnetohydrodynamic Couette flow. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 227-236. (S. D. Nigam) 29 #6891

Viski, Mária

Singular homologies. I, II. (Hungarian) *Mat. Lapok* 17 (1966), 261-294; *ibid.* 18 (1967), 251-272. (Editors) 38 #6583

Viskov, O. V.

(with Prohorov, Ju. V.) Probability of loss of a call in heavy traffic. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 99-104. (E. Reich) 29 #1678

On the waiting time in a mixed queueing system. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 26-34. (E. Reich) 31 #1725

(with Širjaev, A. N.) On controls which reduce to optimal stationary regimes. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 35-45. (E. Polak) 30 #3792

On a queueing system with a Markovian dependence between incoming orders. (Russian) *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 627-634. *Academia, Prague,* 1967. (E. Reich) 36 #4661

(with Iamailov, A. I.) The distribution of the length of the queue of a mixed queueing system. (Russian) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 3, 68-69. (D. J. Daley) 44 #1136

Several remarks on branching processes. (Russian) *Mat. Zametki* 8 (1970), 409-418. (K. Dietz) 43 #2779

Visky, T.

Statistics of mean free path estimates for low sample sizes. (Romanian. Russian and English summaries) *Com. Acad. R. P. Romîne* 13 (1965), 879-884. (Author's summary) 30 #5380

Vislavskiĭ, M. N.

Absolutely irreducible representations of certain groups. I. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Tèhn. Navuk* 1963, *no.* 4, 25-33. (O. H. Kegel) 29 #168

On absolutely irreducible representations of certain groups. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 48-52. (O. H. Kegel) 34 #256

Absolutely irreducible representations of certain nilpotent groups of the third class. I. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 1 (50), 25-29. (W. F. Reynolds) 34 #4382

Finite p-groups with an abelian normal divisor whose factor group is cyclic, and with cyclic center. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 11 (66), 11-16. (W. F. Reynolds) 36 #2688

Visliseni, Ju. See Wisliceny, Jürgen.

Vis'nevskiĭ, K. See Wiśniewski, K.

Višnevskiĭ, L. D.

Construction in finite form of the solutions of certain classes of nonautonomous systems of ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1000-1006. (J. A. Morrison) 42 #6320

Višnevskiĭ, V. V.

The Klein-Norden mapping and its application to the ruled geometry of non-Euclidean spaces. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 27-30. *Izdat. Kazan. Univ., Kazan,* 1963. (W. Wrona) 32 #8275

On the complex structure of B-spaces. (Russian) *Kazan. Gos Univ. Učen. Zap.* 123 (1963), *kn.* 1, 24-48. (T. Huskowski) 33 #1817

On the biplanar space connected with the Riemannian space *V* (Russian) *Candidates' Works* (1964), *Math., Mech., Phys. (Russia pp.* 41-45. *Izdat. Kazan. Univ., Kazan,* 1964. (W. Wrona) 32 #63

A generalization of the spaces of Širokov-Raševskiĭ. (Russi *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 60-73. (W. Wron 34 #8342

A certain property of analytic functions over algebras and its application to the study of complex structures in Riemannian spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 126 (1966), *kn.* 5-12. (M. Decuyper) 37 #4759

Once more on the question of complex structures in line geometry. (Russian) *Trudy Sem. Vektor. Tenzor. Anal.* 13 (1966), 467-492. (M. Decuyper) 34 #8305

A parabolic analogue of A-spaces. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 1 (68), 29-38. (A. Goetz) 37 #2154

(with Terina, G. A.) On the theory of spaces over tensor products of algebras. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 3, 12-23. (A. Širokov (RŽMat 1969 #8 A515)) 42 #6747

A certain class of spaces over plural algebras. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 2 (81), 14-22. (M. Decuyper) 40 #1907

Projective space structures that can be generated by affinor (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 35-46. (J. C. Fisher) 41 #4365

Affinor structures of spaces with affine connection. (Russi *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 1 (92), 12-23. (D. I. Papuc) 41 #2573

Theory of affinor modules. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 129 (1970), *kn.* 6, 33-53. (A. Goetz) 44 #2154

Affinor structures as structures defined by algebras. (Russi *Kazan. Gos. Univ. Učen. Zap.* 129 (1970), *kn.* 6, 54-68. (A. Goetz 44 #2155

Višnjakov, A. F.

Stability of the programmed motion of a body of variable mas on a rectilinear trajectory. (Russian) *Collection of Sci. Works of Graduates, No.* 7: *Mathematics, Mechanics, Physics (Russian), pp.* 144-147. *Univ. Družby Narodov, Moscow,* 1970. (F. Szidarovszky) 44 #7811

On the problem of the investigation of the stability of the programmed motion of a body of variable mass. (Russian) *Collection of Sci. Works of Graduates, No.* 7: *Mathematics, Mechanics, Physics (Russian), pp.* 148-154. *Univ. Družby Narodov, Moscow,* 1970. (F. Szidarovszky) 44 #7812

Višnjakov, M. V.

(with Levin, A. Ju.) Estimate of a determinant whose elements lie inside a given circle. (Russian) *Mat. Zametki* 1 (1967), 659-664. (A. S. Householder) 35 #2908

Characteristics of the compact sets in L^p on the torus that are definable by hypoelliptic operators. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 4 (10), 18-28 (1969). (A. Haimovici) 40 #7654

Constructive characteristics of certain classes of smooth functions in two variables in the space *C*. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 9 (1969), 35-42. (V. M Kokilašvili) 41 #5855

Viswakarma, L. N.

Some recurrence relations involving a Bessel-Struve function (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 10 (1967), 175-181. (B. M. Agrawal) 40 #416

Viswanath, K.

(with Natarajan, S.) Quaternionic representations of compac metric groups. *J. Mathematical Phys.* 8 (1967), 582-589. (U. Ottoson) 35 #3007

(with Natarajan, S.) On weakly stable transformations, *Sankhyā Ser. A* 29 (1967), 245-258. (E. M. Klimko) 37 #2945

(with Natarajan, S.; Raghavan, T. E. S.) On stochastic matrices and kernels. (Russian summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 337-341. (J. G. Mauldon) 35 #4249

Normal operations on quaternionic Hilbert spaces. *Trans. Amer. Math. Soc.* 162 (1971), 337-350. (J. A. Erdos) 44 #2067

Viswanatham, B.

On the structure of the set of solutions of a non-linear differential equation $y' = f(x,y)$. *Math. Student* 33 (1965), 95-96. (V. Lakshmikantham) 32 #7816

Harmonic vibrations of periodic differential equations. *Math. Student* 34 (1966), 11-13. (R. A. Struble) 34 #3015

Viswanathan, B.

Generating functions for ultraspherical functions. *Canad. J. Math.* 20 (1968), 120-134. (J. A. Donaldson) 36 #5408

Viswanathan, K.

(with Thiruvenkatachar, V. R.) Dynamic response of an elast half space with cylindrical cavity to time-dependent surface trac tions over the boundary of the cavity. *J. Math. Mech.* 14 (1965), 541-571. (A. Ben-Menahem) 31 #2870 (with Thiruvenkatachar, V. R.) Dynamic response of an elastic half-space to time-dependent surface tractions over an embedded spherical cavity. *Proc. Roy. Soc. Ser. A* 287 (1965), 549-567. (E. Sternberg) 32 #652

iswanathan, K. S.

(with Achar, B. N. Narahari) Quantum and correlation corrections to the Thomas-Fermi potential. *Canad. J. Phys.* 42 (1964), 2332-2344. (D. J. Thouless) 31 #2029

* The many-electron problem. Asia Monographs, No. 7. *Asia Publishing House, New York,* 1966. viii + 244 *pp.* (A. C. Hurley) 34 #7164

iswanathan, R.

(with Sarma, I. G.; Pai, M. A.) A note on the transformation from Schwarz to Jordan canonical form. *IEEE Trans. Automatic Control* AC-13 (1968), 310-311. 38 #3284b

(with Sarma, I. G.; Pai, M. A.) On the transformation to Schwarz canonical form. *IEEE Trans. Automatic Control* AC-13 (1968), 311-312. 38 #3284c

iswanathan, T. M.

On fully ordered rings. *J. Indian Math. Soc. (N.S.)* 32 (1968), *suppl. I,* 381-395 (1970). (N. Sankaran) 43 #7385

Generalization of Hölder's theorem to ordered modules. *Canad. J. Math.* 21 (1969), 149-157. (W. C. Holland) 38 #3204

Ordered modules of fractions. *J. Reine Angew. Math.* 235 (1969), 78-107. (D. G. Johnson) 39 #1378

(with Gulliksen, Tor; Ribenboim, Paulo) An elementary note on group-rings. *J. Reine Angew. Math.* 242 (1970), 148-162. (S. K. Sehgal) 43 #372

(with Reis, Clive M.) A compactness property for prime ideals in Noetherian rings. *Proc. Amer. Math. Soc.* 25 (1970), 353-356. (J. E. Whitesitt) 40 #7244

Hahn valuations and (locally) compact rings. *J. Algebra* 17 (1971), 94-109. (R. A. Melter) 42 #4465

aVita, J. A. See LaVita, J. A.

itale, B.

(with Simoni, A.) Equivalence among fermion symmetry-multiplets and choice of the symmetry group for strong interactions. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 1199-1213. (P. Tarjanne) 32 #5204

(with Preziosi, B.; Simoni, A.) A general analysis of the reduction of the direct product of two irreducible representations of SU_3 and of its multiplicity structure. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1101-1113. (K. T. Hecht) 33 #1076

(with Gruber, B.) On SU_n symmetries in unitary space and their SU_{2n} extensions to spin-unitary spin space. *Nuovo Cimento* (10) 37 (1965), 1805-1809. 32 #8842

(with Palmieri, C.) On the inversion of Noether's theorem in the Lagrangian formalism. (Italian and Russian summaries) *Nuovo Cimento A* (10) 66 (1970), 299-309. (H. A. Buchdahl) 41 #4869

(with Candotti, E.; Palmieri, C.) On the inversion of Noether's theorem in the Lagrangian formalism. II. Classical field theory. (Italian and Russian summaries) *Nuovo Cimento A* (10) 70 (1970), 233-246. (H. A. Buchdahl) 43 #5861

itali, Ornello

Il metodo delle componenti principali e le sue possibilità di applicazione. *Statistica (Bologna)* 24 (1964), 253-294. 32 #1837

italis, J. A.

* (with Groenewoud, C.; Hoaglin, D. C.) Bivariate normal offset circle probability tables with offset ellipse transformations. I, II. CAL No. XM-2464-G-1. Prepared with cooperation from the Environmental Science Services Administration, U.S. Department of Commerce. *Cornell Aeronautical Laboratory, Inc., Buffalo, N. Y.,* 1967. *Vol. I:* xxii + *pp.* 1-594; *Vol. II:* iii + *pp.* 595-1320. (Editors) 36 #2242

Vitanov, Aleksand"r

The solution by quadratures of a certain linear differential equation. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Priložna Meh.* 1 (1965), *kn.* 2, 49-54 (1966). (From the author's summary) 41 #5681

A certain generalization of a differential equation. (Russian. Macedonian summary) *Bull. Soc. Math. Phys. Macédoine* 17 (1966), 45-71 (1968). (Š. Schwabik) 38 #6137

The solution by quadratures of a certain generalized Bessel differential equation. (Bulgarian. Russian and French summaries) *Godišnik Visš. Tehn. Učebn. Zaved. Mat.* 3 (1966), *kn.* 1, 91-98 (1967). 40 #4509

Vitanza, Margaret L.

Mappings of semigroups associated with ordered pairs. *Amer. Math. Monthly* 73 (1966), 1078-1082. (R. E. Peinado) 34 #2748

Vitásek, Emil

(with Práger, M.) Stability of numerical processes. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp.* 123-130. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (G. Dahlquist) 31 #2819

(with Babuška, Ivo; Prager, Václav) Numerische Stabilität von Rechenprozessen. *Wiss. Z. Techn. Univ. Dresden* 12 (1963), 101-110. (Authors' summary) 29 #1764

* (with Babuška, Ivo; Práger, Milan) Numerické řešení diferenciálnich rovnic. (Czech) [Numerical solution of differential equations] *Státní Nakladatelství Technické Literatury, Prague,* 1964. 238 *pp.* (Editors) 36 #6149

(with Babuška, I.; Prager, M.) Completion of numerical processes and the double-sweep method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 351-353. (T. I. Seidman) 29 #735

Stability of numerical processes. *Apl. Mat.* 10 (1965), 130-145. (Y. L. Luke) 37 #6010

* (with Babuška, Ivo; Práger, Milan) Numerical processes in differential equations. In cooperation with R. Radok. Translated from the Czech by Milada Borůvková. *Státní Nakladatelství Technické Literatury, Prague; Interscience Publishers [John Wiley & Sons]*, London-New York-Sydney, 1966. x + 351 *pp.* (R. W. Hamming) 36 #6150

Numerical stability in solution of ordinary differential equations. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 203-207. (H. E. Fettis) 37 #4964

(See also Rektorys, Karel, 39 #2370)

The numerical stability in solution of differential equations. *Conf. on Numerical Solution of Differential Equations (Dundee, 1969), pp.* 87-111. (2 *graphs) Springer, Berlin,* 1969. (G. D. Byrne) 42 #2681

* (with Babuška, Ivo; Práger, Milan) Численные процессы решения дифференциальных уравнений. [Numerical processes in differential equations] (Russian) Translated from the English by V. L. Katkov. Edited by G. I. Marčuk. *Izdat. "Mir", Moscow,* 1969. 368 *pp.* (Editors) 41 #2932

Vīten'ko, Ī. V.

(with Kostovs'kiĭ. O. M.) Generalized transformation formulae in the methods of Lobačevskiĭ-Gräffe and Lehmer. (Ukrainian) *Teoret. Prikl. Mat. Vip.* 2 (1963), 31-35. (D. H. Lehmer) 33 #8097

(with Kostovs'kiĭ, O. M.) Determination of principal indices of Laurent series. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 732-734. (H. S. Wilf) 29 #4879

(with Kostovs'kiĭ, O. M.) Division and factorization of Laurent series. *Dokl. Akad. Nauk SSSR* 162 (1965), 15-18 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 612-616. (J. H. Curtiss) 35 #4379

(with Kostovs'kiĭ, O. M.) Representation of Lobačevskiĭ-Gräffe products for the Laurent series by means of a determinant. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 6-10. (Authors' summary) 33 #2804

(with Kostovs'kiĭ, O. M.) Fujiwara's theorem concerning a lower bound for the absolute values of the zeros of power series. (Russian. English summary) *Vyčisl. Prikl. Mat. (Kiev) Vyp.* 4 (1967), 141-144. (V. P. Havin) 37 #2959

Optimal algorithms for addition and multiplication on machines with floating point. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1076-1084. (J. Kuntzmann) 40 #2250

Viterbi, Andrew J.

Optimum detection and signal selection for partially coherent binary communication. *IEEE Trans. Information Theory* IT-11 (1965), 239-246. (From the author's summary) 32 #3946

On a class of polyphase codes for the coherent Gaussian channel. *IEEE Internat. Convention Record* 1965, *pt.* 7, 209-213. (Author's summary) 37 #7206

The effect of sequential decision feedback on communication over the Gaussian channel. *Information and Control* 8 (1965), 80-92. (W. L. Root) 31 #1126

Error bounds for the white Gaussian and other very noisy memoryless channels with generalized decision regions. *IEEE Trans. Information Theory* IT-15 (1969), 279-287. (Author's summary) 40 #3998

(with Odenwalder, J. P.) Further results on optimal decoding of convolutional codes. *IEEE Trans. Information Theory* IT-15 (1969), 732-734. (R. Ahlswede) 43 #5989

Viterbo, Guido

Scalare invariante simultaneo di due matrici quadrate simmetriche del terzo ordine. *Boll. Un. Mat. Ital.* (4) 2 (1969), 502-504. (G. E. Wall) 40 #7281

Vitjuk, A. N.

On the problem of an approximate solution for systems of ordinary differential equations based on Čaplygin's method. (Russian) *Differencial'nye Uravnenija* 1 (1965), 923-928. (Walter Gautschi) 32 #8515

Approximate solution of a system of ordinary differential equations of first order which have not been solved for the derivatives. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 107-113. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (J. Kuntzmann) 33 #5130

Approximate solution of systems of ordinary differential equations of first order which have not been solved for the derivatives. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 124-130. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 33 #4351

On an approximate solution of the Goursat problem for second order partial differential equations of the hyperbolic type on the basis of the concept of S. A. Čaplygin's method. (Russian) *Mathematical Physics* (1965) *(Russian). pp.* 37-51. *Naukova Dumka, Kiev,* 1965. (I. O. Bohachevsky) 33 #6860

On the existence of an upper and a lower solution of a boundary value problem for a system of ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1393-1396. (P. B. Bailey) 36 #1755

A generalized Cauchy problem for a system of differential equations not solved with respect to the derivatives. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1575-1580. (Jozef Moravčik) 44 #7020

Vitjuk, V. F.

The oscillations of a fluid in a rectangular basin. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 12 (79), 29-34. (B. A. Bondarenko) 40 #2280

Vitner, Čestmír

A remark on the rotation-osculation cone of curves in centro-euclidean space E_3^c. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 87 (1962), 320-325. (A. Švec) 32 #4611

On the angles of linear subspaces in E_n. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 87 (1962), 415-423. (Author's summary) 31 #4792

Geometric interpretation of the curvature of curves in E_n. (Czech. Russian and German summaries) *Časopis Pěst. Mat.* 88 (1963), 433-437. (Author's summary) 31 #6169

Der Orthogonalisationsprozess in pseudoeuklidischen Räumen. (Czech and Russian summaries) *Časopis Pěst. Mat.* 89 (1964), 31-35. (A. Goetz) 31 #6154

Curves in spaces with non-singular pseudo-Euclidean metric of arbitrary index. (Russian. German summary) *Czechoslovak Math. J.* 14(89) (1964), 243-253. (A. Goetz) 29 #2751

de Vito, Luciano

Esistenza di un particolare integrale singolare sopra una superficie. *Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I* (8) 7 (1963), 59-90. (C. B. Morrey, Jr.) 30 #356

On functions with finite Dirichlet integral. I, II. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 14 (1964), 193-223; *ibid.* 14 (1964), 331-359. (Editors) 37 #4279

Sopra una congettura di Mihlin relativa ad un'estensione della diseguaglianza di M. Riesz alle superficie. *Rend. Mat. e Appl.* (5) 23 (1964), 273-297. (G. Geymonat) 34 #479

Esistenza di integrali singolari sulle superficie. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 485-505. *Ediz. Cremonese, Rome,* 1965. (E. Hille) 32 #7925

(with Mazzaroli, I.) Sui fondamenti della meccanica dei sistemi continui. *Atti Accad. Naz. Lincei Mem. Cl. Sci. Fis. Mat. Natur. Sez. I* (8) 7 (1965), 205-301. (Authors' summary) 32 #6741

(with Fichera, Gaetano; Fusciardi, Alfonso; Schaerf, Mirella) Sul calcolo degli autovalori della piastra quadrata incastrata lungo il bordo. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 725-733. (Authors' summary) 34 #3801

Sulle ipotesi di un teorema relativo all'approssimazione delle funzioni olomorfe. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 43 (1967), 453-463. (E. J. Akutowicz) 38 #6079

* (with Fichera, Gaetano) Funzioni analitiche di una variabile complessa. Terza edizione. *Libreria Eredi Virgilio Veschi, Rome,* 1967. 867 *pp.* (G. Sansone) 42 #7870

Sulle ipotesi di un teorema d'esistenza per l'equazione integro-differenziale di tipo ellittico di Volterra. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 633-638. (I. Fenyő) 39 #6039

Approssimazione uniforme delle funzioni olomorfe mediante funzioni razionali. (English summary) *Rend. Sem. Mat. Fis. Milano* 38 (1968), 187-202. (V. P. Havin) 39 #5806

Vītoliņš, G.

(with Kalis, H. È.) Comparison of certain difference methods for the numerical solution of second order partial differential equations. (Russian. Latvian and English summaries) *Latvian Math. Yearbook, 5 (Russian), pp.* 25-47. *Izdat. "Zinatne", Riga,* 1969. (C. Avramescu) 41 #4835

Vitória, J. S. L.

On certain systems of matricial linear equations. *Rev. Estud. Gerais Univ. Moçambique Sér. I* 4 (1967), 25-35. (Marvin Marcus) 42 #7674

Vitov, V. F.

A remark on the work of N. N. Nazarov "Nonlinear integral equations of Hammerstein type". (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1965, *no.* 2, 49-57. (Ja. Mamedov (RŽMat 1965 #12 B351)) 35 #2117

A perturbed linear integral equation. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1965, *no.* 5, 61-68. (J. Brilla) 37 #6717

On the investigation of a perturbed linear integral equation. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 5 (1965), 21-41. (A. Devinatz) 43 #849

(with Ahmedov, K. T.; Kutmatov, Š.) Investigation of a class of nonlinear integral equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1374-1384. (S. Burýšek) 34 #8126

Singular solutions of nonlinear equations. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol.* 3: *Differential and Integral Equations (Russia pp.* 60-64. *Habarovsk, Gos. Ped. Inst., Habarovsk,* 1967. (I. K. Marek) 41 #886

(with Ahmedov, K. T.) Application of a theorem of Hart to the investigation of nonlinear integral equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 667-679. (S. Burýšek) 35 #4695

Singular solutions of nonlinear equations. (Russian) *Trudy Naučn. Ob"ed. Prepodav. Fiz.-Mat. Fak. Ped. Inst. Dal'n. Vostok.* 9 (1968), 3-7. (P. A. Aĭzengendler (RŽMat 1969 #10 B582)) 42 #3633

Vitt, A. A.

* (with Andronov, A. A.; Haĭkin, S. È.) Theorie der Schwingungen. Teil I. Übersetzung aus dem Russischen von Günter Dähner Herausgegeben von Fritz Wiegmann. *Akademie-Verlag, Berlin,* 1965. xvi + 492 *pp.* (Editors) 35 #7623

* (with Andronov, A. A.; Haĭkin, S. È.) Theorie der Schwingungen. Teil II. Übersetzung aus dem Russischen von Günter Dähnert. Herausgegeben von Fritz Wiegmann. *Akademie-Verlag, Berlin,* 1969. xii + 414 *pp.* (Editors) 39 #2373

* (with Andronov, A. A.; Haĭkin, S. È.) Theory of oscillators Translated from the Russian by F. Immirzi; translation edited and abridged by W. Fishwick. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1966. xxxii + 815 *pp.* (G. P. Szegö) 33 #6888

Vitta, Paul B.

Modified random-walk problem and the unwinding of DNA. *J. Chen. Phys.* 51 (1969), 4790-4793. (J. Gillis) 42 #4157

Vittek, L'udovit

A perfect decomposition of the square into 25 squares. (Slovak. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 14 (1964), 234-235. (Author's summary) 29 #5157

Vittih, G. See Wittich, Hans.

Vittori, Maria Antonietta Pesamosca. See Pesamosca Vittori, Maria Antonietta.

Vittoria De Carolis, Linda. See De Carolis, Linda Vittoria.

Vittorio Benevento, Rodolfo. See Benevento, Rodolfo Vittorio.

Vittorio Ceccherini, Pier. See Ceccherini, Pier Vittorio.

Vittorio Frosini, Benito. See Frosini, Benito Vittorio.

Vittver, Gizela. See Wittwer, Gisela.

Vitushkin, A. G. See Vituškin, A. G.

Vituškin, A. G.

Some properties of linear superpositions of smooth functions. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1003-1006. (M. Tomić) 29 #211

A proof of the existence of analytic functions of several variables not representable by linear superpositions of continuously differentiable functions of fewer variables. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1258-1261. (J. Spilker) 29 #2427

On a problem of Denjoy. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 745-756. (F. Huckemann) 29 #6024

Nonlinear approximation schemes for smooth functions. (Russian) *Third Math. Summer School (Kaciveli, 1965): Constructive Theory of Functions (Russian), pp.* 5-28. *Izdat. "Naukova Dumka", Kiev,* 1966. (G. G. Lorentz) 36 #5576

A proof of upper semicontinuity of a set variation. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1022-1025. (L. C. Young) 33 #5828

Approximation of a function by rational fractions. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1023-1026. (J. T. Scheick) 35 #390

Conditions on a set which are necessary and sufficient in order that any continuous function, analytic at its interior points, admit uniform approximation by rational fractions. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1255-1258. (J. T. Scheick) 35 #391

Estimate of the Cauchy integral. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 515-534. (Jaroslav Fuka) 34 #6124

Analytic capacity and the Cauchy integral. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 20-23. (J. Fuka) 35 #6843

(with Henkin, G. M.) Linear superpositions of functions. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 77-124. (B. S. Mitjagin) 38 #6010

Analytic capacity of sets in problems of approximation theory (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 6 (138), 141-199. (D. A. Brannan) 37 #5404

The possibility of representing functions by superpositions of functions of a smaller number of variables. (Russian) *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 322-329. *Izdat. "Mir", Moscow,* 1968. (M. Tomić) 39 #383

On Hilbert's thirteenth problem. (Russian) *Hilbert's problem (Russian), pp.* 163-170. *Izdat. "Nauka", Moscow,* 1969. (W. H. J. Fuchs) 41 #1952 ivanet, Carlo

Sulle piastre circolari caricate con simmetria radiale e soggette a grandi deformazioni. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 98 (1964), 247-273. (A. Dou) 30 #4425

iviente Mateu, José L.

* El invariante de Zeuthen-Segre. (Spanish) [The Zeuthen-Segre invariant] Memorias de Matemática del Instituto "Jorge Juan", 25. *Consejo Superior de Investigaciones Científicas, Madrid,* 1961. iii + 57 *pp.* (Editors) 34 #5833

On the Hopf mapping $h_4:\pi_4 \to \pi_7(X)$. (Spanish) *Acta Ci. Compostelana* 4 (1967), 169-178. (F. E. J. Linton) 41 #2680

On a universal mapping problem. (Spanish) *In Honor of Prof. Dr. Iñiguez y Almech on the Occasion of his Seventieth Birthday and Academic Retirement (Spanish), pp.* 227-230. *Consejo Sup. Investigación. Ci. Fac. Ci. Zaragoza, Zaragoza,* 1969. (R. Hines) 40 #2755

ivier, Marcel

Sur l'emploi de certains opérateurs linéaires. *C. R. Acad. Sci. Paris* 259 (1964), 280-283. (Burton W. Jones) 29 #2273

Sur certaines équivalences de matrices. *C. R. Acad. Sci. Paris* 259 (1964), 497-500. (W. Ledermann) 29 #5842

Sur les paritions d'un espace vectoriel de dimension finie, stables pour un endomorphisme. *Ann. École Nat. Sup. Méc. Nantes* 1965, *deuxième semestre,* 1-43. (Burton W. Jones) 40 #7282

Sur l'emploi des images canoniques et diagonales de matrices. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A893-A896. (C. G. Cullen) 33 #5643

Algèbre d'opérateurs appliquée à la résolution des systèmes d'équations différentielles à coefficients constants. *Ann. École Nat. Sup. Méc. Nantes Sér. A,* 1967, *deuxième semestre,* 1-59. (G. Doetsch) 40 #4523

Sur les bases vectorielles de certains modules de torsion. Application à la résolution des systèmes différentiels (pour des valeurs initiales données) en connexion avec la théorie des faisceaux réguliers de matrices. *Ann. École Nat. Sup. Méc. Nantes* 1968, *deuxième semestre,* 1-62. (G. Doetsch) 40 #4524

Sur les modules de solutions des systèmes d'équations différentielles homogènes à coefficients constants. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A405-A408. (D. Kirby) 38 #2165

Note sur l'immersion d'un module de ξ^n dans un module régulier. *Ann. École Nat. Sup. Méc. Nantes* 1969, *premier semestre,* 7-9. (G. Doetsch) 41 #553

Sur les bases vectorielles de certains modules de torsion. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A633-A636. (G. Doetsch) 40 #5660

Sur la réduction algébrique des systèmes différentiels à une forme normale et sur le problème des conditions initiales. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A653-A656. (G. Doetsch) 41 #8460

Vizbaraitė, J.

* (with Glembockis, J.; Karazija, R.; Strockytė, T.; Uldukytė, V.) Tables of $9j$-coefficients for integral values of the parameters with one parameter equal to unity. English and Russian texts. Editor A. Jucys. Academy of Sciences of Lithuanian SSR. Institute of Physics and Mathematics. Academy of Sciences USSR. Computing Center. *Computing Center AS USSR, Moscow,* 1968. xxviii + 552 *pp.* (C. Froese Fischer) 39 #7912

Vizbaraite, Ya. I. See Vizbaraite, J.

Vizcarrondo, Carlos Toro. See Toro-Vizcarrondo, Carlos.

Vizel', Ja. F. See Vizelis, J.

Vizelis, J.

A certain generalization of Favard's theorem to the multidimensional case. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 13-15. (J. Gil de Lamadrid) 42 #6508

Vizing, V. G.

The cartesian product of graphs. (Russian) *Vyčisl. Sistemy No.* 9 (1963), 30-43. (J. Bosák) 35 #81

On an estimate of the chromatic class of a p-graph. (Russian) *Diskret. Analiz No.* 3 (1964), 25-30. (J. Bosák) 31 #4740

Critical graphs with given chromatic class. (Russian) *Diskret. Analiz No.* 5 (1965), 9-17. (J. Bosák) 34 #101

An estimate of the external stability number of a graph. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 729-731. (P. Ungar) 32 #5547

The chromatic class of a multigraph. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 3, 29-39. 32 #7333

(with Plesnevič, G. S.) On the problem of the minimal coloring of the vertices of a graph. (Russian) *Sibirsk. Mat. Ž.* 6 (1965), 234-236. (P. Ungar) 30 #5307

On the number of edges in a graph with a given radius. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 1245-1246. (W. Imrich) 35 #1508

Some unsolved problems in graph theory. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 6 (144), 117-134. (J. Bosák) 39 #1354

(with Mel'nikov, L. S.) New proof of Brooks' theorem. *J. Combinatorial Theory* 7 (1969), 289-290. (K. Wagner) 42 #125

Vizirėv, Ivan

The synthesis of schemes of competition-free logical automata in the presence of an arbitrary number of input signals. (Russian) *Avtomat. i Vyčisl. Tehn.* 1968, *no.* 6, 26-31. *(loose errata)* (Author's summary) 44 #3803

The study of transients in potential logical circuits. (Bulgarian. Russian and English summaries) *B"lgar. Akad. Nauk. Otdel. Tehn. Nauk. Izv. Inst. Tehn. Kibernet.* 9 (1968), 5-16. (Author's summary) 43 #6013

On a possibility for synthesis of M-stable switching circuits. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 1, 117-121 (1970). (R. Kashef) 41 #6626

Certain questions of the synthesis of anachronous finite automata using transient operators. (Bulgarian. Russian and English summaries) *B"lgar. Akad. Nauk. Otdel. Tehn. Nauk. Izv. Inst. Tehn. Kibernet.* 10 (1969), 5-19. (Author's summary) 42 #5701

Reduction of the memory redundance in reliable asynchronous automata. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1643-1649. (Author's summary) 42 #9101

Viziteĭ, V. N.

Certain inequalities for eigenvalues and norms of linear operators. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1963, *no.* 1, 19-26. (Ky Fan) 35 #2166

Expansion in root vectors of a weakly perturbed normal operator. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 19-26. (H. Baumgärtel) 34 #8199

Stability of bases consisting of subspaces of a Banach space. (Russian) *Studies in Algebra and Math. Anal. (Russian), pp.* 32-44. *Izdat. "Karta Moldovenjaske", Kishinev,* 1965. (Ivan Singer) 34 #4871

On the decomposition with regard to the eigenvectors and root vectors of a bounded operator. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1965, *no.* 7, 33-39. (H. H. Wicke) 33 #6416

(with Markus, A. S.) Convergence of multiple expansions of a bundle of operators in a system of eigenvectors and adjoined vectors. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 287-320. (Robert McKelvey) 35 #801

Vīznjuk, G. Ī.

Numerical methods with the A. A. Samarskiĭ regularization for the solution of the biharmonic equation. (Russian) *Basic and Standard Programs for Computers and Systems (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 3-15. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 40 #1043

A certain method of solving a biharmonic equation. (Ukrainian. Russian and English summaries) *Dopovîdî Akad. Nauk Ukraîn. RSR Ser. A* 1968, 291-294. (J. H. Giese) 39 #2351

On explicit methods for the solution of the biharmonic equation in an arbitrary region. (Ukrainian. Russian and English summaries) *Dopovîdî Akad. Nauk Ukraîn. RSR Ser. A* 1968, 579-583. (Editors) 38 #2964

(with Molčanov, Ī. M.) Explicit numerical methods with regularization for the solution of the biharmonic equation. (Ukrainian. Russian and English summaries) *Dopovîdî Akad. Nauk Ukraîn. RSR Ser. A* 1969, 6-11, 82. 39 #2352

Numerical methods for solving the problem of the sagging of an orthotropic rectangular plate. (Ukrainian. English and Russian summaries) *Dopovîdî Akad. Nauk Ukraîn. RSR Ser. A* 1970, 113-116, 187. (B. A. Bondarenko) 43 #5776

V. Kempen, H. P. M. See van Kempen, H. P. M.

Vlach, Milan

Branch and bound method for the three-index assignment problem. (Czech summary) *Ekonom.-Mat. Obzor* 3 (1967), 181-191. (M. S. Cheema) 35 #6449

(with Morávek, Jaroslav) On necessary conditions for a class of systems of linear inequalities. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 299-303. (P. S. Dwyer) 39 #1473

(with Glückaufová, Dagmar) Discrete problems in dynamic programming. (Czech) *Pokroky Mat. Fyz. Astronom.* 13 (1968), 201-224; *ibid.* 13 (1968), 267-277. (Editors) 37 #7166

(with Morávek, Jaroslav) Über Netzwerke mit eindeutig bestimmtem Fluß. (Czech summary) *Apl. Mat.* 15 (1970), 10-17. (H. Rohleder) 40 #4007

(with Zimmermann, Karel) One generalization of the dynamic programming problem. (Czech summary) *Apl. Mat.* 15 (1970), 79-96. (B. Gluss) 42 #5624

On necessary conditions of optimality in linear spaces. *Comment. Math. Univ. Carolinae* 11 (1970), 501-513. (A. Jaeger) 44 #5799 (with Zegeling, H.) A note on a paper by A. Brandt and Y. Intrator. *Časopis Pěst. Mat.* 96 (1971), 12-17, 102. (U. Weisner) 44 #1417

A separation theorem for finite families. *Comment. Math. Univ. Carolinae* 12 (1971), 655-660. (J. Stoer) 44 #7311

Vlach, Thomas L.

(with Disney, Ralph L.) The departure process from the *GI*/*G*/1 queue. *J. Appl. Probability* 6 (1969), 704-707. (C. E. M. Pearce) 41 #2803

Further results concerning the simple queueing loss system. (German summary) *Unternehmensforschung* 15 (1971), 55-57. (L. Takács) 43 #5638

Vladimirov, D. A.

The existence of invariant measures on Boolean algebras. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 764-766. (S. Kurepa) 30 #226

On the complete continuity of integral operators. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 19-22. (P. G. Rooney) 31 #3893

Invariant measures on Boolean algebras. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 440-460. (J. Auslander) 34 #6025

(with Vulih, B. Z.; Kantorovič, L. V.) Aron Grigor′evič Pinsker. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 169-170. (Editors) 34 #20

Complete continuity of integral operators. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 764-781. (H. Baumgärtel) 35 #7175

* Булевы алгебры. (Russian) [Boolean algebras] *Izdat. "Nauka", Moscow,* 1969. 318 *pp.* (John Ellis) 41 #8314; erratum, 43, p. 1696

(with Efimov, B. A.) The power of extremally disconnected spaces and of complete Boolean algebras. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 1247-1250. (D. Monk) 43 #1902

Vladimirov, V.

(with Matveev, V.) Queueing systems with priority and "warming up". (Russian) *Comput. Methods Programming, VI (Russian), pp.* 259-271. *Izdat. Moskov. Univ., Moscow,* 1967. (E. Reich) 36 #994

Vladimirov, Vasiliĭ Sergeevič

Some variational methods for the approximate solution of the transport equation. (Russian) *Vyčisl. Mat.* 7 (1961), 95-114. (RŽMat 1963 #12 B354) 34 #2312

Functions which are holomorphic in tubular cones. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 75-100. (A. S. Wightman) 30 #4983 (E)

Corrections to my paper "Functions which are holomorphic in tublar cones". (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 1186. (A. S. Wightman) 30 #4984

*Методы теории функций многих комплексных переменных. (Russian) [Methods in the theory of functions of several complex variables] With a Foreword by N. N. Bogoljubov. *Izdat. "Nauka", Moscow,* 1964. 411 *pp.* (H. Rossi) 30 #2163

The problem of linear conjugates for holomorphic functions of several variables. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 807-834. (A. Korányi) 33 #4329

On plurisubharmonic functions in tubular radial regions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1123-1146. (H. Tornehave) 34 #4520a (E)

Linear conjugacy problem of holomorphic functions of several complex variables. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965) *(Russian), pp.* 64-68. *Izdat. "Nauka", Moscow,* 1966. (A. Korányi) 34 #4545

A correction to the paper "On plurisubharmonic functions in tubular radial regions". (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 479. (H. Tornehave) 34 #4520b

* Methods of the theory of functions of many complex variables. Translated from the Russian by Scripta Technica, Inc. Translation edited by Leon Ehrenpreis. *The M. I. T. Press, Cambridge, Mass.-London,* 1966. xii + 353 *pp.* (Editors) 34 #1551

* Les fonctions de plusieurs variables complexes et leur application à la théorie quantique des champs. Traduit du Russe par N. Lagowski. Travaux et Recherches Mathématiques, No. 14. *Dunod, Paris,* 1967. xv + 338 *pp.* (Editors) 36 #1692

(See also Jost, Res, 37 # 6090)

* Уравнения математической физики. (Russian) [The equations of mathematical physics] *Izdat. "Nauka", Moscow,* 1967. 436 *pp.* (J. C. J. Nihoul) 39 #599

On plurisubharmonic funetions in tubular radial regions. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 103-122. (H. Tornehave) 35 #1805

(with Drožžinov, Ju. N.) The generalized Cauchy problem for ultraparabolic equations. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1341-1360. (B. Frank Jones, Jr.) 37 #1799

Legendre transformation of convex functions. (Russian) *Mat. Zametki* 1 (1967), 675-682. (F. Smithies) 36 #1592

Convex homogeneous functions--growth indicatrices of holomorphic functions. (Russian) *Mat. Zametki* 2 (1967), 167-174. (H. Tornehave) 36 #1686

Generalized functions whose supports are bounded outside a convex acute cone. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1238-1247. (M. Dostál) 39 #1966

Singularities in the solution of the transport equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 842-852. (K. Kumar) 37 #7157

A generalization of the Cauchy-Bochner integral representation. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 90-108. (K. Wolffhardt) 39 #4426

Holomorphic functions with nonnegative imaginary part in a tubular region over a cone. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 128-152. (H. Tornehave) 40 #3307

(with Zubarev, D. N.; Medvedev, B. V.; Mitropol′s′kiĭ, Ju. O.; Parasjuk, O. S.; Polivanov, M. K.) Nikolaĭ Nikolaevič Bogoljubov (on his sixtieth birthday). (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 4 (148), 207-215. (Editors) 41 #1495

On the theory of linear passive systems. (Russian) *Mat. Zametki* 8 (1970), 265-271. (H. Tornehave) 44 #5774

* Equations of mathematical physics. Translated from the Russian by Audrey Littlewood. Edited by Alan Jeffrey. Pure and Applied Mathematics, 3. *Marcel Dekker, Inc., New York,* 1971. vi + 418 *pp.* (Editors) 42 #3394

Vladimirskiĭ, Ju. N.

Strictly cosingular operators. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 1251-1252. (E. Durszt) 35 #7142

Strictly cosingular operators. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 399-403 (1968). (E. R. Deal) 38 #5054

Φ_+-operators in locally convex spaces. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 175-176. (B. Walsh) 37 #3396

Φ_--operators in locally convex spaces. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 514-517. (W. R. Transue) 39 #2015

Strictly singular operators in Fréchet spaces. (Russian) *Mat. Issled.* 5 (1970), *vyp.* 2 (16), 79-88. (S. Kurepa) 44 #2057

Bounded perturbations of Φ-operators in locally convex spaces. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 263-265. (C. Clark) 42 #8335

A criterion for the normability of a locally convex space. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 2 (20), 138-141, 163. (Alan H. Shuchat) 44 #4499

Vlahov, Ĭ. P.

(with Karaivanov, V. D.) On the theory of the absorption of electromagnetic waves by free charge carriers in semiconductors. (Russian. English summary) *Annuaire Univ. Sofia Fac. Phys.* 63 (1968/69), 49-63 (1971). 44 #3590

Vlasenko, V. F.

A theorem on the summation of diluted series. (Russian) *Mat. Zametki* 2 (1967), 257-266. (G. Goes) 36 #1874

Summation of diluted series by regular positive matrix methods. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 11-20. (J. Mařik) 35 #2014

Summation of diluted series (negative results). (Russian) *Ukrain. Mat. Ž.* 20 (1968), 830-832. (D. Gaier) 38 #4852

Vlasov, A. A.

* Many-particle theory and its application to plasma. Translated from the Russian. *Gordon and Breach Science Publishers, Inc., New York,* 1961. 413 *pp.* (Edward Frieman) 32 #3751

* Статистические функции распределения. (Russian) Statistical distribution functions] *Izdat. "Nauka", Moscow,* 1966. 356 *pp.* *(errata insert)* (D. ter Haar) 34 #5458

Vlasov, I. M.

Criteria for boundedness of solutions of systems of ordinary solutions of systems of ordinary differential equations. (Russian) *Izv. Vysš. Učebn. Zaved Matematika* 1964, *no.* 3 (40), 39-42. (V. Lakshmikantham) 29 #1402

On perturbations preserving the property of stability of solutions to systems of ordinary differential equations. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 32-35. (C. S. Coleman) 33 #4398

A general stability criterion for systems of ordinary differential equations with steady perturbations bounded on the average. (Russian) *Proc. Reps. Sci. Conf. Fac. Phys. Math. Natur. Sci. (Udmurt State Ped. Inst. (Russian), pp.* 3-6. *Izdat. "Udmurtija", Izhevsk,* 1965. (O. Hajek) 36 #2915

Sufficient condition of integral stability for systems of ordinary differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 45-47. (J. K. Hale) 30 #4036

Some criteria for stability of motion. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 2 (69), 27-34. (D. Bobrowski) 36 #6720

Conditions for the dissipativity of normal systems of ordinary differential equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 8 (87), 17-25. (H. A. Antosiewicz) 40 #4551

Vlasov, K. B.

(with Išmuhametov, B. H.) Equations of motion and state for magnetoelastic media. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 201-212 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 142-148. (A. J. A. Morgan) 32 #5025

Vlasov, L. P.

On almost convex sets in Banach spaces. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 18-21. (R. R. Phelps) 34 #6497

On Čebyšev sets. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 491-494. (G. G. Lorentz) 35 #5903

Approximatively convex sets in uniformly smooth spaces. (Russian) *Mat. Zametki* 1 (1967), 443-450. (R. R. Phelps) 35 #4706

Čebyšev sets and approximately convex sets. (Russian) *Mat. Zametki* 2 (1967), 191-200. (E. Strzelecki) 35 #5904

Čebyšev sets and some generalizations of them. (Russian) *Mat. Zametki* 3 (1968), 59-69. (E. Strzelecki) 37 #3329

Summation methods and best approximations. (Russian) *Mat. Zametki* 4 (1968), 11-20. (H.-H. Körle) 38 #2524

Approximative properties of sets in Banach spaces. (Russian) *Mat. Zametki* 7 (1970), 593-604. (G. Albinus) 42 #758

Almost convex and Čebyšev sets. (Russian) *Mat. Zametki* 8 (1970), 545-550. (M. M. Day) 43 #2476

Vlasov, V. D.

A singular case of the estimation of mathematical expectancy of a random function. (Russian) *Izv. Vysš. Učebn. Zaved. Geod. i Aèrofot.* 1969, *no.* 3, 33-41. (A. M. Kagan) 44 #6088

Vlasov, V. F.

Fine and rough convergence of interpolation and quadrature processes. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 735-736. (Carl de Boor) 33 #7755

Vlasova, Z. A.

The grid method for a non-linear one-dimensional variational problem. (Russian) *Trudy Mat. Inst. Steklov.* 66 (1962), 196-204. (F. D. Faulkner) 30 #1623

On convergence of the difference method for a one-dimensional variational problem of S. N. Bernšteĭn's class. (Russian) *Trudy Mat. Inst. Steklov.* 84 (1965), 41-49. (G. F. Miller) 33 #5100

(with Rybakova, Ju. V.) On the question of numerical realization of the networks method for a nonlinear one-dimensional variational problem. (Russian) *Trudy Mat. Inst. Steklov.* 84 (1965), 50-59. (A. S. Householder) 32 #8496

Vlasovec, N. N.

The order of approximation of continuous functions on a finite interval by means of certain algebraic polynomials. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 2, 31-42. (G. G. Lorentz) 38 #462

Linear methods of approximation for functions continuous on a segment. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1970, *no.* 5, 30-42. (G. Godini) 44 #7203

van Vleck, F. S. See Van Vleck, F. S.

Vleck, J. H. Van. See Van Vleck, J. H.

Vlieger, J.

(with de Groot, S. R.) On the derivation of Maxwell's equations. *Nuovo Cimento* (10) 33 (1964), 1225-1227. (Sylvan Katz) 33 #3591

(with de Groot, S. R.) On the derivation of Maxwell's equations. *Phys. Lett.* 10 (1964), 294-296. (D. R. Fredkin) 32 #3702

(with de Groot, S. R.) On the derivation of Maxwell's equations. *Statist. Mech. of Equilibrium and Non-equilibrium, Proc. Internat. Sympos., Aachen,* 1964, *pp.* 199-204. *North-Holland, Amsterdam,* 1965. 32 #5291

(with de Groot, S. R.) Derivation of Maxwell's equations: The atomic field equations. *Physica* 31 (1965), 125-140. (H. A. W. van Vianen) 31 #6508

(with de Groot, S. R.) Derivation of Maxwell's equations: The statistical theory of the macroscopic equations. *Physica* 31 (1965), 254-268. (H. A. W. van Vianen) 31 #6509

van Vliet, K. M.

(with Chenette, E. R.) Noise spectra resulting from diffusion processes in a cylindrical geometry. *Physica* 31 (1965), 985-1001. (M. Lax) 32 #7159

Markov approach to density fluctuations due to transport and scattering. I. Mathematical formalism. *J. Mathematical Phys.* 12 (1971), 1981-1998. (R. K. Pathria) 44 #6287

Markov approach to density fluctuations due to transport and scattering. II. Applications. *J. Mathematical Phys.* 12 (1971), 1998-2012. (R. K. Pathria) 44 #6288

Vnorovskaja, L. M.

(with Kozlovskiĭ, K. I.) A certain class of degenerate configurations of circles. (Russian) *Tiraspol. Gos. Ped. Inst. Učen. Zap.* 20 (1970), 73-92. (A. Schleiermacher) 44 #5853

Vobach, Arnold R.

On subgroups of the homeomorphism group of the Cantor set. *Fund. Math.* 60 (1967), 47-52. (R. Bennett) 36 #2108

A theorem on homeomorphism groups and inverse limits. *Nieuw Arch. Wisk.* (3) 15 (1967), 31-33. (R. Bennett) 36 #2109

Characterizing groups for compact metric spaces. *Topology Conference (Arizona State Univ., Tempe, Ariz.,* 1967), *pp.* 293-312. *Arizona State Univ., Tempe, Ariz.,* 1968. (R. Bennett) 38 #6536

Continua structured by families of simple closed curves. I, II. *Czechoslovak Math. J.* 18(93) (1968), 195-210; *ibid.* 18(93) (1968), 211-223. (S. S. Cairns) 37 #3530

A theorem on homeomorphism groups and products of spaces. *Bull. Austral. Math. Soc.* 1 (1969), 137-141. (R. W. Bagley) 39 #7586

Two structure theorems for homeomorphism groups. *Bull. Austral. Math. Soc.* 4 (1971), 63-68. (R. Bennett) 43 #2685

Voblyĭ, V. A.

A condition for the asymptotic stability of a linear homogeneous system whose principal part is a Jordan matrix. (Russian) *Mat. Zametki* 8 (1970), 761-772. (A. Halanay) 43 #3576

Vocke, Wolfgang

Die elastische Biegung des Balkens bei grosser Verformung. (English and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 119-122. (R. P. Nordgren) 31 #1809

Vodáček, Leo

* (with Kadlec, Vladimír) Mathematische Methoden zur Lösung von Transportproblemen. Lineare Optimierung (mit Anlagen: Tabellen, Abbildungen und Schemata). Autorisierte Übersetzung aus dem Tschechischen von Heinrich Langer. *Transpress VEB Verlag für Verkehrswesen, Berlin,* 1964. 195 pp. *(Anlagen: 94 pp.)* (P. L. Ivănescu) 31 #2072

Vodička, Václav

On the decomposition of a natural number as the sum of three natural numbers. (Czech. Russian and French summaries) *Časopis Pěst. Mat.* 87 (1962), 305-310. (F. Šik) 33 #5561

Longitudinal vibrations of a composite conical bar. (German summary) *Österreich. Ing.-Arch.* 17 (1962/63), 249-254. (T. K. Caughey) 29 #788

Free vibrations of a composite circular plate. *Acta Phys. Austriaca* 17 (1963/64), 319-332. (J. W. Craggs) 29 #1807

Note on Hermite polynomials. (Czech) *Časopis Pěst. Mat.* 88 (1963), 106-107. (O. Frink) 31 #5999

Two formulas from operational calculus. (Czech. Russian and German summaries) *Apl. Mat.* 9 (1964), 212-225. (Author's summary) 32 #323

Vodinčar, M. I.

A criterion for pseudonormality of topological algebras. (Russian) *Mat. Issled.* 2 (1967), *vyp.* 1, 133-140. (P. Saworotnow) 35 #833

(with Arnautov, V. I.) Radicals of topological rings. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 2 (8), 31-61. (L. A. Skornjakov) 40 #7313

The minimal hypernilpotent radical in topological rings. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 4 (10), 29-50 (1969). (V. I. Arnautov) 41 #280

Hereditary and special radicals in topological rings. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 2 (12), 17-31. (V. I. Arnautov) 41 #281

Vodnev, V. T.

(with Fedenko, A. S.) On some symmetric, partially projective spaces. (Russian) *Dokl. Akad. Nauk BSSR* 8 (1964), 213-216. (B. Cenkl) 29 #554

On a class of partially projective Riemannian spaces. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 621-634. (G. Vrănceanu) 32 #3010; errata, 33, p. 1600.

On a class of Riemannian spaces with plane geodesics. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 927-933. (H. W. Guggenheimer) 32 #6366

(with Fedenko, A. S.) Symmetric partially projective spaces. (Russian) *Proc. First Republican Conf. Math. Byelorussia (Russian), pp.* 277-282. *Izdat. "Vyšsaja Škola", Minsk,* 1965. (M. Decuyper) 37 #3480

Spaces of D. V. Vedenjapin. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 1, 61-73. (M. Decuyper) 38 #1632

Certain partially projective symmetric spaces. (Russian) *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1567-1571. (K. Bélteky) 44 #4696

Vodonaeva, V. K.

(with Aleskerov, S. A.) The alternating method in the case of a certain mixed problem for Laplace's equation. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 11 (1968), *no.* 2, 7-10. (O. R. Burggraf) 38 #1278

Vodovoz, D. G.

(with Zaĭdenberg, M. G.) The number of generators in an algebra of continuous functions. (Russian) *Mat. Zametki* 10 (1971), 537-540. (M. Abel) 44 #7301

Voevodin, V. V.

Solution of the complete problem of eigenvalues by power methods. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.*7-54. *Izdat. Moskov. Univ., Moscow,* 1965. (A. S. Householder) 34 #7011

The stability of power methods. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 55-60. *Izdat. Moskov. Univ., Moscow,* 1965. 34 #7012

The solution of the complete problem of eigenvalues by a generalized method of rotations. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 89-105. *Izdat. Moskovsk, Univ., Moscow,* 1965. (E. L. Albasiny) 32 #6663

* Численные методы алгебры (Russian) [Numerical methods of algebra]. *Izdat. "Nauka", Moscow,* 1966. 248 *pp.* (A. S. Householder) 34 #942

On an order of elimination of unknowns. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 758-760. 33 #5112

(with Ikramov, H. D.) A certain extension of Jacobi's method. (Russian) *Computing Methods and Programming, VIII (Russian), pp.* 216-228. *Izdat. Moskov. Univ., Moscow,* 1967. (I. Šelihova (RŽMat 1968 #6 B824)) 44 #3483

The asymptotic distribution of round-off errors in linear transformations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 965-976. (A. S. Householder) 36 #2310

Orthogonal transformations in linear algebra. (Russian) *Modern Numerical Methods, No.* 1, *Computational Methods of Linear Algebra (Proc. Internat. Summer School on Numerical Methods, Kiev,* 1966) *(Russian), pp.* 3-15. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1968. (A. S. Householder) 39 #7804

The accuracy of solving systems of equations by direct methods. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1094-1096. (E. M. Bruins) 38 #5379

The method of regularization. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 673-675. (Chandler Davis) 40 #5116

The asymptotic distribution of round-off errors in the factorization of a matrix and in the solution of systems of equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 932-934. (A. Buraczewski) 41 #2968

(with Rudneva, T. L.) The block variant of the reflection method in the solution of linear algebraic systems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1281-1285. (F. Szidarovszky) 43 #8232

Vogel, Alfred

* Vierstellige Funktionentafeln. Dritte Auflage. Mit ungebundenem Anhang: "Mathematische Formelsammlung". *Verlag Konrad Wittwer, Stuttgart,* 1963. viii + 158 *pp.* + 24 *pp. Anhang.* (John Todd) 29 #2436

Vogel, Eberhard

Ein System zum formalen Umformen mathematischer Ausdrücke mit Hilfe von Rechenautomaten. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 173-190. (Author's summary) 43 #5763

Vogel, Johannes

Über die Verzweigung der Lösungen nichtlinearer Integralgleichungen vom Hammersteinschen Typ mit Anwendung der Theorie auf die Eulersche Stabknickung. *Wiss. Z. Hochsch. Elektrotech. Ilmenau* 9 (1963), 105-112. (D. H. Hyers) 30 #1377

Über die Holomorphie-Eigenschaften der Lösung einer Integralgleichung vom Hammerstein-Typ in bezug auf einen Parameter. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 435-440. (R. C. MacCamy) 37 #6718

Uber die Verzweigungslösungen der identisch verschwindenden Lösung einer Klasse nichtlinearer Integralgleichungen vom Hammerstein-Typ (Hinweis auf ein Beispiel aus der Elasto-Mechanik). *Wiss. Z. Hochsch. Architektur Bauwesen Weimar* 12 (1965), 560-561. (Editors) 37 #5636

Ein Kriterium über die Anzahl der Verzweigungslösungen nichtlinearer Hammerstein-Integralgleichungen. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 381-391. (D. H. Sattinger) 39 #6035

Über die Verzweigung der identisch verschwindenden Lösung einer Klasse nichtlinearer Integralgleichungen vom Hammerstein-Typ. (English and Russian summaries) *Z. Angew. Math. Mech.* 47 (1967), 83-90. (D. H. Hyers) 36 #634

Uber Eigenschaften der Verzweigungsgleichung im Verzweigungsfall der trivialen Lösung bei Hammersteinschen Integralgleichungen. *Wiss. Beitrage Martin-Luther-Univ. Halle-Wittenberg* M 1 (1968/69), 129-136. (D. H. Hyers) 39 #6036

Eine Rekursionsformel zur Koeffizientenbestimmung bei der Lösung nichtlinearer Integralgleichungen im Kleinen durch Potenzreihen. *Wiss. Z. Techn. Hochsch. Ilmenau* 14 (1968), 267-271. (D. H. Hyers) 43 #850

Über eine Eigenschaft der Verzweigungsgleichungen im mehrdimensionalen Verzweigungsfall der trivialen Lösung bei Hammersteinschen Integralgleichungen. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 67-75. (H. Amann) 42 #6555

Vogel, Kurt

(See Algorismus, Mohammed Ibn Musa Alchwarizmi, 30 #5; De Thiende von Simon Stevin, 33 #5424; Rechenpfennige. Aufsatze zur Wissenschaftsgeschichte, 38 #5547; and Neun Bücher arithmetischer Technik (Chiu-chang suan-shu), 43 #4605)

Der Trienter Algorismus von 1475. *Nova Acta Leopoldina (N. F.)* 27 (1963), 183-200. (M. Folkerts) 41 #3218

L'historiographie mathématique avant Montucla. *Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Cracovie,* 1965), *Sect. III: Histoire des Sciences Exactes (Astronomie, Mathématiques, Physique), pp.* 179-184. *Ossolineum, Wrocław,* 1968. (P. Bockstaele) 41 #6650

* Ein byzantinisches Rechenbuch des frühen 14. Jahrhunderts: Text, Übersetzung und Kommentar. Wiener Byzantinistisch Studien, Band VI. Österreichische Akademie der Wissenschaften. Kommission für Byzantinistik der Universität Wien. *In Kommission bei Hermann Böhlaus Nachf., Vienna-Cologne,* 1968. 173 *pp. (*1 *foldout).* (J. Vernet) 40 #4058

Zur Geschichte der Lösung linearer Gleichungssysteme. *Actes XII^e Congrès Internat. d'Histoire des Sciences (Paris,* 1968), *Tome IV: Histoire des Mathématiques et de la Mécanique, pp.* 179-182. *Librairie Sci. et Techn. A. Blanchard, Paris,* 1971. (E. B. Allen) 43 #6036

Vogel, Théodore

Théorie des systèmes périssables: Application à la fatigue des métaux. *J. Mécanique* 2 (1963), 475-492. (T. K. Caughey) 31 #1821

* Théorie des systèmes évolutifs. Traité de Physique Théorique et de Physique Mathématique, XXII. *Gauthier-Villars, Paris,* 1965. iv + 172 *pp.* (T. K. Caughey) 32 #8546

Vogel, Walter

Wahrscheinlichkeitsmodelle. *Math.-Phys. Semesterber.* 9 (1962/63), 169-189. (Editors) 32 #4711

Bemerkungen zur Theorie der Matrizen aus Nullen und Einsen. *Arch. Math.* 14 (1963), 139-144. (H. W. Kuhn) 30 #4693

* Lineares Optimieren. Mathematik und ihre Anwendungen in Physik und Technik, Reihe A, Band 33. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1967. 372 *pp.* (G. Owen) 39 #5141

Monotone Optimierungsaufgaben. (English summary) *Unternehmensforschung* 11 (1967), 65-94. (H. F. Karreman) 35 #6460

Duale Optimierungsaufgaben und Sattelpunktsätze. (English summary) *Unternehmensforschung* 13 (1969), 1-28. (M. J. Beckmann) 39 #5157

* Wahrscheinlichkeitstheorie. Studia Mathematica, Band XXII. *Vandenhoeck & Ruprecht, Göttingen,* 1970. 386 *pp.* (L. Takács) 44 #3359

Vogel, Walter O.

Über lineare Zusammenhänge in singulären Riemannschen Räumen. *Arch. Math.* 16 (1965), 106-116. (M. Pinl) 31 #5180

Zur isometrischen Einbettung einer singulären Riemannschen Mannigfaltigkeit in einen regulären Riemannschen Raum. *Math. Nachr.* 42 (1969), 1-27. (C. S. Weaver) 41 #6122

Geometrie und Anschauung. *Math.-Phys. Semesterber.* 16 (1969), 225-232. (H. Salzmann) 40 #7917

Vogel, Wolfgang

Eine Bemerkung zur idealtheoretischen Multiplizitätstheorie. *Math. Ann.* 166 (1966), 64-75. (L. Budach) 36 #5126

Grenzen für die Gültigkeit des Bezoutschen Satzes. *Monatsb. Deutsch. Akad. Wiss. Berlin* 8 (1966), 1-7. (P. Du Val) 34 #5819

Zur Theorie der charakteristischen Hilbertfunktion in homogenen Ringen über Ringen mit Vielfachkettensatz. *Math. Nachr.* 33 (1967), 39-60. (R. E. MacRae) 34 #7553

Idealtheoretische Schnittpunktsätze in homogenen Ringen über Ringen mit Vielfachkettensatz. *Math. Nachr.* 34 (1967), 277-295. (R. E. MacRae) 36 #5127

Torsionsfreie Moduln über einem regulären Stellenring. *Monatsb. Deutsch. Akad. Wiss. Berlin* 9 (1967), 393-396. (C. Margaglio) 37 #5206

Der Bézoutsche Satz in Halbstellenringen. *Monatsh. Math.* 71 (1967), 238-247. (K. Sakai) 36 #159

Über die Reduktionszahl und erste Nachbarschaft von Moduln. *Monatsh. Math.* 72 (1968), 245-253. (Robert Gilmer) 39 #1443

(with Tierney, Myles) Simplicial derived functors. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash.,* 1968, *Vol. One), pp.* 167-180. *Springer, Berlin,* 1969. (M. Barr) 39 #4249

(with Tierney, Myles) Simplicial resolutions and derived functors. *Math. Z.* 111 (1969), 1-14. (M. Barr) 40 #2733

(with Budach, Lothar) Cohen-Macaulay-Moduln und der Bezoutsche Satz. *Monatsh. Math.* 73 (1969), 97-111. (K. R. Mount) 41 #6839

(with Kurke, H.) Gefilterte Moduln und Anwendungen in der algebraischen Geometrie. *Publ. Math. Debrecen* 16 (1969), 43-49. (Y. Nakai) 42 #254

Idealtheoretische Ordnungsbestimmung des Schnittes einer Veroneseschen und Grassmannschen Varietät. *Arch. Math. (Basel)* 21 (1970/71), 567-570. (Y. Nakai) 44 #210

(with Herrmann, Manfred) Bemerkungen zur Multiplizitätstheorie von Gröbner und Serre. *J. Reine Angew. Math.* 241 (1970), 42-46. (J. C. Fogarty) 41 #8414

Vogelsang, Rudolf

* Die mathematische Theorie der Spiele. *Ferd. Dümmlers Verlag, Bonn,* 1963. 254 *pp. (*1 *plate).* (B. A. Amirà) 32 #9069

Voghera, Neri

(See Recent advances in optimization techniques, 33 #6876)

Vogler, Hans

Die auf einer Torse verlaufenden Linien konstanten Gratabstandes als duale Seitenstücke zu den pseudorektifizierenden Torsen einer Raumkurve. *Osterreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 172 (1963), 173-187. (K. Strubecker) 29 #5172

Über die Normalprojektionen des Simplex eines n-dimensionalen euklidischen Raumes. *Osterreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 173 (1964), 29-57. (K. Strubecker) 31 #1586

Über die Normalprojektionen von Vektorsystemen im n-dimensionalen euklidischen Raum. *Osterreich. Akad. Wiss. Math-Natur. Kl. S.-B. II* 173 (1965), 299-329. (K. Strubecker) 32 #4624

Über eine besondere Klasse von Gewindekurven. *Osterreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 175 (1966), 255-264. (H. R. Müller) 37 #3460

Bestimmung einer oberen Schranke für den Inhalt des Parallelrisses eines regelmässigen Körpers. *Elem. Math.* 22 (1967), 133-135. (H. R. Müller) 37 #2094

Vogler, L. E.

Percentage points of the Beta distribution. *Nat. Bur. Standards Tech. Note No.* 215 (1964), i + 32 *pp.* (H. L. Harter) 30 #1563

Vogt, Dietmar

Integrationstheorie in p-normierten Räumen. *Math. Ann.* 173 (1967), 219-232. (L. C. Grove) 36 #345

On the approximation property for $R(X)$. *Papers from the Summer Gathering on Function Algebras (Aarhus,* 1969*), pp.* 72-77. *Matematisk Inst., Aarhus Univ., Aarhus,* 1969. (J. P. Ferrier) 41 #2402

(with Gramsch, Bernhard) Holomorphe Funktionen mit Werten in nicht lokalkonvexen Vektorräumen. *J. Reine Angew. Math.* 243 (1970), 159-170. (W. Żelazko) 42 #8264

Vogt, Erich

(with Orlik, P.; Zieschang, H.) Zur Topologie gefaserter dreidimensionaler Mannigfaltigkeiten. *Topology* 6 (1967), 49-64. (D. B. A. Epstein) 35 #3696

* (with Zieschang, H.; Coldewey, H.-D.) Flächen und ebene diskontinuierliche Gruppen. Lecture Notes in Mathematics, Vol. 122. *Springer-Verlag, Berlin-New York,* 1970. viii + 203 *pp.* (P. Orlik) 41 #6986

Vogt, Rainer M.

(with Boardman, J. M.) Homotopy-everything H-spaces. *Bull. Amer. Math. Soc.* 74 (1968), 1117-1122. (R. J. Milgram) 38 #5215

* Boardman's stable homotopy category. Lecture Notes Series, No. 21. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. i + 246 *pp.* (Joel M. Cohen) 43 #1187

Vogt, Richard L.

(with Mientka, Walter E.) Computational results relating to problems concerning $\sigma(n)$. *Mat. Vesnik* 7(22) (1970), 35-36. (K. Thanigasalam) 41 #8329

Vogt, William G.

(with George, John H.) On Aizerman's conjecture and boundedness. *IEEE Trans. Automatic Control* AC-12 (1967), 338-339. (Y. C. Ho) 35 #4037

(with Mickle, Marlin H.) A routing analogy in the control space. *Proc. Sisth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 62-67. *Univ. of Illinois, Urbana, Ill.,* 1968. (Authors' summary) 41 #8069

(with Pao, C. V.) On the stability of nonlinear operator differential equations, and applications. *Arch. Rational Mech. Anal.* 35 (1969), 30-46. (J. A. Goldstein) 39 #7257

(with Eisen, Martin J.; Buis, Gabe R.) Contraction groups and equivalent norms. *Nagoya Math. J.* 34 (1969), 149-151. (M. V. Subbarao) 40 #3284

(with Strane, Robert E.) Stabilization of a class of nonlinear systems using a linear system estimator. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969), pp. 313-322. *Univ. of Illinois, Urbana, Ill.,* 1969. (Authors' summary) 41 #8084

(with Bose, N. K.) A method to determine whether two polynomials are relatively prime. *IEEE Trans. Automatic Control* AC-15 (1970), 379-380. (Authors' summary) 43 #187 (E)

(See also Mortensen, R. E., 44 #5303)

Voĭcehivs′ka, K. F. See Voĭcehovskaja, K. F.

Voĭcehovskaja, K. F.

Stability of second-order dynamic systems. *Dokl. Akad. Nauk SSSR* 184 (1969), 1061-1064 *(Russian); translated as Soviet Physics Dokl.* 14 (1969), 111-113. (S. Leela) 41 #5727

Voĭcehovskiĭ, M. I.

On the rigidity of convex surfaces with boundary. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 6, 35-40. (Z. Nádeník) 32 #4638

A maximum principle for deformations of convex surfaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 15-21. (H. Busemann) 40 #4902

Voĭcehovs′kiĭ, V. B.

Determination of the static and dynamic characteristics of a plant with a constant delay portion. *Avtomatika* 1969, *no.* 1, 48-56 *(Ukrainian); translated as Soviet Automat. Control — Ukrain. J. Automat.* 1969, *no.* 1, 34-41. (A. Bensoussan) 43 #4503

Voichick, Michael

(with Zalcman, Lawrence) Inner and outer functions on Riemann surfaces. *Proc. Amer. Math. Soc.* 16 (1965), 1200-1204. (N. L. Alling) 32 #1359

Invariant subspaces on Riemann surfaces. *Canad. J. Math.* 18 (1966), 399-403. (J. Wermer) 32 #8201

Extreme points of bounded analytic functions on infinitely connected regions. *Proc. Amer. Math. Soc.* 17 (1966), 1366-1369. (N. L. Alling) 33 #7881

(with Gamelin, T. W.) Extreme points in spaces of analytic functions. *Canad. J. Math.* 20 (1968), 919-928. (I. Kra) 37 #3023

Voicu, M.

(with Giosan, Traian) Formules d'approximation et d'interpolation par polynômes obtenues à l'aide du déterminant Vandermonde. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 16(20) (1970), *fasc.* 3-4, *sect. III,* 13-19. 43 #8208

Voiculescu, Dan

An equation concerning convex bodies and applications to associated bodies of a convex body. (Romanian) *Stud. Cerc. Mat.* 18 (1966), 741-745. (P. Vincensini) 35 #7201

(with Farkaş, Peter) Some observations on convergent series. (Romanian) *Gaz. Mat. Ser. A* 72 (1967), 241-245. (M. Tomić) 36 #5556

Spaces with convexity. I, II. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 295-301; *ibid.* 19 (1967), 303-311. (P. Vincensini) 39 #6172

Convergent sequences in semimetric spaces. *Publ. Math. Debrecen* 16 (1969), 141-144. (S. P. Franklin) 41 #6150

Voigt, Robert G.

On a numerical solution of an integral equation with singularities. *Math. Comp.* 20 (1966), 163-166. (D. Elliott) 33 #895

Rates of convergence for a class of iterative procedures. *SIAM J. Numer. Anal.* 8 (1971), 127-134. (J. J. Moré) 44 #2337

Orders of convergence for iterative procedures. *SIAM J. Numer. Anal.* 8 (1971), 222-243. (W. Niethammer) 44 #4896

Voĭlokov, V. I.

Periodic solutions of non-linear oscillatory systems with one degree of freedom. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 1 (38), 19-27. (J. C. Lillo) 29 #314

On the question of existence of periodic solutions with an arbitrary period. (Russian) *Differencial′nye Uravnenija* 2 (1966), 422-424. (O. E. Stanaitis) 33 #4390

Voinea, Radu P.

(with Drobotă, Victor) L'inversion de quelques matrices de type Jacobi à l'aide des éléments d'algèbre graphique. *Rev. Roumaine Sci. Tech. Sér. Méc. Appl.* 16 (1971), 175-184. (R. A. Brualdi) 44 #1676

Voinov, Ju. N.

S-capacity in the proof of Hölder continuity of a generalized solution of quasilinear equations near the boundary. (Russian) *Učen. Zap. Karel. Ped. Inst. Ser. Fiz.-Mat. Nauk* 20 (1967), 3-9. (P. Szeptycki) 37 #4409

Voisin, Jacques

A construction of the Foldy-Wouthuysen transformation for zero-mass particles of arbitrary spin. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1257-1262. (Roland Good, Jr.) 32 #3629

On some unitary representations of the Galilei group. I. Irreducible representations. *J. Mathematical Phys.* 6 (1965), 1519-1529. (N. Mukunda) 35 #1294

On the unitary representations of the Galilei group. II. Two-particle systems. *J. Mathematical Phys.* 6 (1965), 1822-1832. (N. Mukunda) 35 #1295

Representations of the homogeneous Galilei group in a spherical basis and the asymptotic behavior of relativistic special functions. *J. Mathematical Phys.* 7 (1966), 2235-2237. (Author's summary) 34 #5450

Representations of the Lie algebra of the homogeneous Galilei group and their relation to the representations of the Lorentz algebra. *J. Mathematical Phys.* 8 (1967), 611-614. (Author's summary) 35 #1710

Energy balance and projective extensions of the Poincaré and the Galilei groups. *Bull. Soc. Roy. Sci. Liège* 38 (1969), 27-34. (Author's summary) 39 #6583

Voĭtenko, M. A.

On the theory of pseudo-congruences of straight lines of a quasi-elliptic space. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 55-63. (V. Havel) 34 #6608 (with Syčeva, V. G.) Conjugation of the couple T_1 and T in P_4. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 221-224. (K. Svoboda) 34 #711

Conjugate T_1 pairs in P_4. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 190 (1965), 45-54. (K. Svoboda) 36 #7050

The one-sided stratification of three-parameter families of manifolds in P_4. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 190 (1965), 55-68. (K. Svoboda) 36 #7051

The representation of pseudocongruences of straight lines of the quasi-elliptic space S^1_{n+1} in complex spaces. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 222 (1965), 13-22. (A. Urban) 35 #3577

Focal pseudocongruence of elliptic straight lines in the space S^1_5. (Russian) *Moskov. Inst. Inž. Železnodorož. Transporta Trudy Vyp.* 222 (1965), 23-33. (E. M. Bruins) 35 #6066

Voĭtinskiĭ, V. I.

The density of the Cauchy initial data for solutions of elliptic equations. (Russian) *Mat. Sb. (N.S.)* 85(127) (1971) 132-139. (L. Arkeryd) 43 #7763

Voĭtišek, L. V. See Vojtíšek, L. V.

Voĭtišek, V. V.

On an approach to a classification of Boolean functions. (Russian) *Diskret. Analiz No.* 8 (1966), 35-42. (5 *foldouts*) (S. Kullback) 34 #4061

Voitsekhovskaya, K. F. See Voĭcehovskaja, K. F.

Vojtášek, S.

Über die Anwendung des Fixpunktsatzes zur Lösing einiger nichtlinearer Schwingungsprobleme. (English and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 365-371. (J. Stuelpnagel) 33 #6040

Vojtíšek, L. V.

Calculation of coefficients in formulas for numerical cubature. (Russian) *Apl. Mat.* 10 (1965), 312-315. (Walter Gautschi) 31 #5333

A particular case of the construction of cubature formulae with boundary layer. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 417-419. (Editors) 40 #3723

Finding a solution, best in the sense of Čebyšev, of an overdetermined system of linear algebraic equations. (Russian. Czech and English summaries) *Apl. Mat.* 11 (1966), 232-237. (A. S. Householder) 35 #2472

Vojtíšková, L. V. See Vojtíšek, L. V.

Vo-Khac Khoan

Les $\tilde{Q}$-fonctions. *C. R. Acad. Sci. Paris* 258 (1964), 3161-3164. (G. J. Minty) 29 #499

Q-solutions d'un système différentiel. *C. R. Acad. Sci. Paris* 258 (1964), 3430-3433. (G. J. Minty) 29 #500

Q-solutions faibles d'équations différentielles opérationnelles non linéaires. *C. R. Acad. Sci. Paris* 258 (1964), 5569-5572. (J. Bass) 29 #2674

Q-solutions fortes d'équations différentielles opérationnelles non linéaires. *C. R. Acad. Sci. Paris* 258 (1964), 6323-6326. (J. Bass) 29 #2675

Etude des fonctions quasi-stationnaires et de leurs applications aux équations différentielles opérationnelles. *Bull. Soc. Math. France Mém.* 6 (1966), 175 *pp.* (J. Bass) 33 #6461

Fonctions et distributions vectorielles aléatoires d'ordre p. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1012-A1015. (P. Civin) 37 #2280

Processus stochastiques stationnaires du second ordre à valeurs vectorielles. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1069-A1072. (J. Bass) 36 #3408

Solutions aléatoires et stationnaires d'équations différentielles opérationnelles du premier ordre. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A63-A65. (J. Bass) 36 #2234

Solutions aléatoires et stationnaires d'équations différentielles opérationnelles du second ordre. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A567-A570. (J. Bass) 36 #7221

Segmentation hiérarchique dans un espace hilbertien. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A620-A623. (E. H. Lehman, Jr.) 36 #6102

Solutions quasi-stationnaires d'équations différentielles opérationnelles du second ordre, application à l'équation des ondes non homogène. *J. Math. Pures Appl.* (9) 46 (1967), 185-201. (M. Z. Nashed) 37 #4676

Distributions vectorielles quasi stationnaires. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A867-A869. (J. Bass) 37 #5695

Espaces fonctionnels de distributions vectorielles aléatoires. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A1003-A1005. (R. M. Dudley) 39 #1967

Sur une classe de problèmes d'ordonnancement. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A51-A53. (A. C. Williams) 39 #7931

Séries de Fourier des ultra-distributions périodiques. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1465-A1468. (L. Artiaga) 39 #4669

La régularisation dans les problèmes combinatoires et son application aux problèmes des tournées de livraison. *Rev. Française Informat. Recherche Opérationnelle* 3 (1969), *Sér.* V-1, 91-104. (Author's summary) 40 #4015

Quelques remarques sur les fonctions mesurables et les mesures à valeurs dans les espaces des opérateurs p-sommants ou nucléaires. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A179-A182. (P. Saphar) 41 #5592

Fonctions à valeurs opérationnelles, de carrés intégrables pour une mesure nucléaire autoadjointe semi-définie positive. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A231-A234. (P. Saphar) 41 #5593

Une remarque sur les mesures de Radon et les mesures abstraites. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1383-A1386. (W. J. Wilbur) 44 #400

Un très facile théorème de surjectivité et ses conséquences. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A29-A32. (Nguyễn Phuong Các) 44 #2058

Vo Ky Lan

(with Feautrier, Nicole; Feautrier, Paul) Sur la résolution numérique de certains systèmes d'équations intégro-différentielles de la mécanique quantique. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), B1-B3. (Authors' summary) 37 #6052

Volčenko, A. P.

(with Poddubnyĭ, E. P.) A method of solving differential equations on an electronic computer. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 9 (1963/64), 587-600. (Authors' summary) 29 #5394

Volčič, Alessio

On topologies generated by a subcollection of the collection of closed sets. *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 317-325. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (R. F. Dickman, Jr.) 42 #3734

Sopra un'estensione del teorema di Radon-Nikodym. *Ricerche Mat.* 18 (1969), 83-101. (A. C. M. van Rooij) 41 #7060

Sul teorema di Radon-Nikodym nel caso non σ-finito. (English summary) *Rend. Ist. Mat. Univ. Trieste* 2 (1970), 42-53. (C. Vinti) 42 #4696

Volčinskaja, M. I.

An iterated scheme for the solution of a quasilinear heat equation. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 518-520. (E. Gerlach) 44 #2368

Volenec, Vladimir

Variations of orthogonal basic sets in a Euclidean space. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 1(21) (1966), 45-49. (H. A. Gindler) 36 #5664

(with Kurnik, Zdravko) Die Verallgemeinerungen des Ptolemäischen Satzes und einiger seiner Analoga in der euklidischen und den nichteuklidischen Geometrien. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 2(22) (1967), 213-243. (W. Szmielew) 37 #5777

(with Kurnik, Zdravko) Neue Verallgemeinerungen der Ptolemäischen Relationen in der euklidischen und den nichteuklidischen Geometrien. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23) (1968), 77-86. (W. Szmielew) 39 #854

Die Summe der Projektionen eines Vektors auf die Seiten eines Simplex in affinen Räumen. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 3(23) (1968), 95-104. (D. W. Walkup) 38 #596

Über einigen algebraische und geometrische Ungleichungen. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 103-113. (H. Kober) 41 #8611

Verallgemeinerung eines Satzes von N. Abramescu über ebene Kurven. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 123-130. (E. Morgantini) 39 #7515

Einige Sätze über die Halbmesser von Hyperkugeln, die alle Seiten eines Simplex im E^n Berühren. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 131-137. (E. Morgantini) 39 #6177

(with Pavković, B.) Über die Potenzpunkte der Halbkonfokalen (n-1)-Rotationsquadriken. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 275-282. (H. R. Müller) 41 #2510

Volevič, L. R.

(with Agranovič, M. S.; Dynin, A. S.) Solvability of general boundary value problems for elliptic systems in domains of arbitrary dimension. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 3-9. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (Editors) 34 #498

On hypo-elliptic systems with variable coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1262-1265. (J. Peetre) 29 #1429

Elliptic operators on compact manifolds and the theory of harmonic integrals. (Russian) *Second Math. Summer School, Part I (Russian), pp.* 147-198. *Naukova Dumka, Kiev,* 1965. (A. Devinatz) 33 #739

(See also Hormander, Lars, 37 #6595)

Solubility of boundary value problems for general elliptic systems. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 373-416. (R. Carroll) 33 #418

(with Panejah, B. P.) Some spaces of generalized functions and embedding theorems. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 1 (121), 3-74. (J. Peetre) 30 #5160

Hypoelliptic convolution equations. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 1232-1235. (J. Friberg) 34 #3077

(with Panejah, B. P.) A new approach to imbedding theorems. (Russian) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1966, *no.* 1, 5-13. (J. Peetre) 34 #1841

(with Gindikin, S. G.) Pseudodifferential operators and the Cauchy problem for differential equations with variable coefficients. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 4, 8-25. (H. Baumgärtel) 36 #6769

(with Mehtiev, A. G.) Multipliers of Fourier integrals in weight classes and imbedding theorems. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 10 (65), 27-38. (J. Peetre) 36 #1926

Local properties of inhomogeneous pseudodifferential operators. (Russian) *Trudy Moskov. Mat. Obšč.* 16 (1967), 51-98. (H. Baumgärtel) 37 #1761

(with Gindikin, S. G.) A Cauchy problem for pseudodifferential equations. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 267-270. (J. Friberg) 38 #405

(with Gindikin, S. G.) The Cauchy problem for differential operators with dominant principal part. (Russian) *Funkcional. Anal. i Priložen.* 2 (1968), *no.* 3, 22-38. (P. Szeptycki) 39 #617

(with Gindikin, S. G.) The Cauchy problem for pluriparabolic differential equations. I. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 64-105. (R. Guenther) 36 #4157

(with Gindikin, S. G.) A certain class of hypoelliptic polynomials. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 400-416. (J. Mařík) 37 #606a

(with Gindikin, S. G.) Letter to the editors. (Russian) *Mat. Sb. (N.S.)* 76(118) (1968), 320. (J. Mařík) 37 #606b

(with Kagan, V. M.) Pseudodifferential hypoelliptic operators in the theory of function spaces. (Russian) *Trudy Moskov. Mat. Obšč.* 20 (1969), 241-275. (J. Friberg) 41 #4228

The Cauchy problem for hypoelliptic differential operators in classes of rapidly growing functions. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 1 (151), 191-192. (V. Barbu) 41 #7296

Estimates of convolution type operators in Gevrey classes. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 269-270. (D. P. Squier) 41 #6021

Vol′f, Verner

Some limit theorems for large deviations. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 21-23. (V. Fabian) 37 #960

Certain limit theorems for large deviations of sums of independent random variables. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 1209-1211. (W. Hoeffding) 41 #4623

Vol′fovic, Dž. See Wolfowitz, J.

Volger, Hugo

Über die Existenz von freien Algebren. *Math. Z.* 106 (1968), 312-320. (G. S. Rinehart) 38 #5895 (E)

Korrekturen aur Arbeit "Über die Existenz von freien Algebren". *Math. Z.* 108 (1969), 388. (Editors) 39 #290

Volgin, L. N.

Programming of optimal control processes in linear plants. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1538-1544. (N. H. Choksy) 30 #989

Volin, Ju. M.

(with Ostrovskiĭ, G. M.) On an optimal problem. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1414-1420. (Authors' summary) 29 #5679

(with Ostrovskiĭ, G. M.) A method of successive approximations for calculating optimal modes of some distributed-parameter systems. *Avtomat. i Telemeh.* 26 (1965), 1197-1204 *(Russian. English summary); translated as Automat. Remote Control* 26 (1965), 1188-1194 (1966). 32 #7297

(with Ostrovskiĭ, G. M.) The maximum principle for discontinuous systems and its application to problems with phase constraints. (Russian. English summary) *Izv. Vysš. Učebn. Zaved. Radiofizika* 12 (1969), 1609-1621. (V. N. Igolkin) 44 #3745

Volk, Günter

Eine maßtheoretische Charakterisierung von Körpertopologien. *Math. Nachr.* 43 (1970), 19-23. (F. Cunningham, Jr.) 41 #5336

Volk, O.

Bermerkungen zur Geschichte der Himmelsmechanik. *Celestial Mech.* 2 (1970), *no.* 3, 398-423. (I. N. Veselovskiĭ) 44 #2553

Remarks about the history of celestial mechanics. *Celestial Mech.* 2 (1970), *no.* 3, 424-434. (I. N. Veselovskiĭ) 44 #2554

Völkel, A. H.

Über die Einteilchensingularitäten in Relativistischen Quantenfeldtheorien. (English summary) *Comm. Math. Phys.* 2 (1966), 176-214. (H. Araki) 34 #2279

(with Völkel, U.) On the connection between current-density algebras and charge-current algebras. (Italian and Russian summaries) *Nuovo Cimento A* (10) 63 (1969), 203-237. (H. Ezawa) 41 #1311

Völkel, U.

(with Völkel, A. H.) On the connection between current-density algebras and charge-current algebras. (Italian and Russian summaries) *Nuovo Cimento A* (10) 63 (1969), 203-237. (H. Ezawa) 41 #1311

Volkmann, Bodo

On uniform distribution and the density of sets of lattice points. *Compositio Math.* 16, 184-185 (1964). (A. M. Macbeath) 30 #61

On non-normal numbers. *Compositio Math.* 16, 186-190 (1964). (F. Herzog) 30 #4749

(with Erdős, Paul) Additive Gruppen mit vorgegebener Hausdorffscher Dimension. *J. Reine Angew. Math.* 221 (1966), 203-208. (S. J. Taylor) 32 #4238

(See also Postnikov, A. G., 35 #5409; and Sprindžuk, V. G., 39 #6833)

Über extreme Anormalität bei Ziffernentwicklungen. *Math. Ann.* 190 (1970/71), 149-153. (B. Gordon) 43 #6161

Volkodavov, V. F.

On the boundedness of compact sets in *K*-spaces. (Russian) *Kuĭbyšev. Gos. Ped. Inst. Učen. Zap. Vyp.* 29 (1959), 67-71. (G. J. O. Jameson) 33 #6366

The uniqueness of the solution to the problem T for a general Tricomi equation. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 45-49. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (M. Zerner) 34 #1719a

Solution of the problem N for the general Tricomi equation. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 49-52. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (M. Zerner) 34 #1719b

Solution of the Cauchy-Goursat problem for a Tricomi type equation of a general form. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No.* 1 *(Russian), pp.* 25-27. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. 34 #1718

(with Nosov, V. A.) Principle of local extremum for a hyperbolic equation with constant coefficients. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 226-228. (M. Zerner) 35 #3213

On solving the problem T for the equation: $y \cdot z_{xx} + z_{yy} = M_0(x, y)$. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 25-30. (M. Zerner) 34 #1719c

(with Nevostruev, L. M.) On solving the first Cauchy-Goursat problem for the equation F. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 69-89. (M. Zerner) 34 #4707

(with Nevostruev, L. M.) The principle of a local extremum for the equation $yz_{xx} + z_{yy} + c(x, y)z = 0$ and its applications. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 14-23. (O. Vejvoda) 35 #7013

(with Nosov, V. A.) The uniqueness of the solutions of certain boundary value problems for an equation of the Tricomi type with a first-order singularity on the transition line. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 58-69. (O. Gürel) 36 #540

(with Nevostruev, L. M.) The principle of local extremum for the Euler-Poisson-Darboux equation. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 70-78. (O. Gürel) 36 #2988

Uniqueness of the solution of a problem of type T_3 for the equation $z_{xx} + \operatorname{sgn} y z_{yy} + p z_x / x = 0$. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 79-82. (O. Gürel) 36 #2989

The solution of the Tricomi problem for an equation of mixed type with singular coefficients. (Russian) *Proc. Sci. Theoret. Conf. Professorial Instructional Staff Kuybyshev Ped. Inst., Dedicated to the 50th Anniversary of the October Revolution (Russian), pp.* 27-31. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1968. (D. A. Lee) 41 #2228

Solution of the N problem for a space equation. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 3-5. (V. Ďurikovič) 43 #5185

The principle of local extremum for a general Euler-Poisson-Darboux equation and its application. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 6-10. (M. I. Imanaliev) 44 #1952

Volkonskiĭ, V. A.

Application of the theory of random processes to the estimate of accuracy of measuring devices. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*), p.* 201, *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. 32 #576

Asymptotic behavior properties of the simplest automata in a game. (Russian) *Problemy Peredači Informacii* 1 (1965), *vyp.* 2, 36-53. 32 #5396

A use of the special structure of matrices for the solution of planning problems. (Russian) *Èkonom. i Mat. Metody* 2 (1966), 235-248. (S. Lebedev (RŽMat 1966 #10 V206)) 42 #7271

(with Levina, L. V.; Pomanskiĭ, A. B.; Pjateckiĭ-Šapiro, I. I.; Šapiro, A. D.) Stochastic methods of the solution of integer programming problems. (Russian) *Problemy Kibernet. No.* 20 (1968), 81-89. (Authors' summary) 44 #3697

(with Ivankov, S. A.) Convergence of iterative processes for finding an equilibrium point in the presence of random errors, and an estimate of its rate. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 770-781, 956. (P. Neumann) 42 #8552

Volkov, A. P.

(with Kravčenko, V. F.; Man′ko, G. P.; Rvačov, V. L.) The solution of a boundary value problem by the method of R-functions. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1602-1605. (A. A. Mullin) 36 #4165

Volkov, B. I.

On the computation of the stationary motion of bundle of charged particles in external fields. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 961-967. (J. F. Heyda) 40 #6856

Volkov, D. M.

An analogue of Ljapunov's second method in boundary value problems for nonlinear hyperbolic equations. (Russian) *Dokl. Akad. Nauk BSSR* 2 (1958), 317-319. (V. M. Babič (RŽMat 1959 #8046)) 40 #7631

* Дифференциальные уравнения и их приложения в естествознании. Часть II. (Russian) [Differential equations and their applications in the natural sciences] *Izdat. Leningrad. Univ., Leningrad,* 1964. 156 *pp.* (Editors) 31 #476

Volkov, E. A.

The method of nets for boundary-value problems with skew and normal derivatives. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 1 (1961), 607-621. (J. Douglas, Jr.) 29 #4221

Removal of singularities by solving boundary-value problems for the Laplace equation in a domain with smooth boundary. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 109-119. (E. Vitásek) 30 #269

Effective error bounds by the method of nets for solutions of the Dirichlet problem for the Laplace equation on polygons. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 735-738. (M. L. Juncosa) 29 #742

Application of the Lagrange interpolation polynomial for solving the Dirichlet problem for the Poisson equation by the method of nets. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 466-472. (J. Albrycht) 29 #2991

Solving the Dirichlet problem by a method of corrections with higher order differences. I. II. (Russian) *Differencial′nye Uravnenija* 1 (1965), 946-960; *ibid.* 1 (1965), 1070-1084. (A. Haimovici) 32 #8523

Solution of the Dirichlet problem by refinement with higher order differences. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 479-482. (A. Haimovici) 32 #8524

On differential properties of solutions of boundary value problems for the Laplace and Poisson equations on a rectangle. (Russian) *Trudy Mat. Inst. Steklov.* 77 (1965), 89-112. (M. L. Juncosa) 33 #304

Differential properties of solutions of boundary value problems for the Laplace equation on polygons. (Russian) *Trudy Mat. Inst. Steklov.* 77 (1965), 113-142. (M. L. Juncosa) 33 #305

The non-establishment of Batschelet's majorant method and an error bound for a mixed boundary-value problem by the method of nets. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 121-124. (B. Kellogg) 30 #2237

The method of irregular nets for finite and infinite regions with conical points. (Russian) *Differencial′nye Uravnenija* 2 (1966), 1358-1373. (V. Thomée) 34 #8661

The net-method for finite and infinite regions with a piece-wise boundary. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 978-981. (A. Haimovici) 33 #5148

Effective error estimates for solutions by the method of nets, of boundary value problems on a rectangle and on certain triangles for the Laplace and Poisson equations. (Russian) *Trudy Mat. Inst. Steklov.* 74 (1966), 55-85. (J. H. Giese) 37 #1098

The method of nets for the exterior Dirichlet problem. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 503-511. (V. Thomée) 33 #6861

Obtaining an error estimate for a numerical solution of the Dirichlet problem in terms of known quantities. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), *no.* 4, *suppl.*, 5-17. (M. L. Juncosa) 35 #2503

The development of the method of nets for the Laplace equation in finite and infinite regions with piecewise smooth boundary. (Russian) *Mat. Zametki* 2 (1967), 421-435. (V. Thomée) 36 #4828

A remark on the approximation of functions by polynomials. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1374-1375. (J. Szabados) 37 #658

The unimprovability of the error estimate of the method of refinements with higher order differences in a certain class of solutions of Poisson's equations. (Russian) *Differencial′nye Uravnenija* 4 (1968), 136-139. (O. Gürel) 37 #2468

The unavoidable errors of the method of nets. (Russian) *Mat. Zametki* 4 (1968), 621-627. (G. F. Miller) 40 #3737

The solution by the method of nets of the Dirichlet problem for Laplace's equation on regions with rounded corners. (Russian) *Differencial′nye Uravnenija* 5 (1969), 141-153. (M. Zlámal) 39 #6534

Conditions for the convergence of the method of nets for Laplace's equation at the rate h^2. (Russian) *Mat. Zametki* 6 (1969), 669-679. (G. W. Hedstrom) 41 #6418

The differential properties of the solutions of the Laplace and Poisson equations on a parallelepiped, and effective error estimates for the method of nets. (Russian) *Trudy Mat. Inst. Steklov.* 105 (1969), 46-65. (G. Wildenhain) 41 #4836

The differential properties of the solutions of Laplace's equation, and the errors in the method of nets with boundary values in C_2 and $C_{1,1}$. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 573-584. (A. Haimovici) 40 #8286

The method of composite meshes for finite and infinite regions with piecewise smooth boundary. *Trudy Mat. Inst. Steklov.* 96 (1968), 117-148 *(Russian); translated in Proc. Steklov Inst. Math., No.* 96 (1968): *Automat. Programming, Numer. Methods and Functional Anal., pp.* 145-185. *Amer. Math. Soc., Providence, R. I.,* 1970. (P. G. Ciarlet) 42 #8719

A mesh method for finite and infinite polygons and error bounds in terms of known quantities. *Trudy Mat. Inst. Steklov.* 96 (1968), 149-187 *(Russian); translated in Proc. Steklov Inst. Math., No.* 96 (1968): *Automat. Programming, Numer. Methods and Functional Anal., pp.* 187-234. *Amer. Math. Soc., Providence, R. I.,* 1970. (P. G. Ciarlet) 42 #8720

A posteriori and weighted error estimates for solutions of the Poisson equation, and their derivatives, as calculated by the method of nets. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 717-720. (D. P. Squier) 42 #7085

A method of regular composite nets for the solution of a mixed boundary value problem for Laplace's equation. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 266-269. (A. Haimovici) 43 #4278

A difference method for obtaining error estimates of the numerical solutions of boundary value problems for an ordinary differential equation. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 758-761. (C. Ilioi) 43 #4264

Volkov, G. A.

The distribution of the poles of rational functions of best approximation. (Russian) *Mat. Zametki* 7 (1970), 289-293. (W. H. J. Fuchs) 41 #8684

Volkov, G. G.

(with Ežela, V. V.; Mestvirišvili, M. A.) Lower bound for decrease of form factors. *Jadernaja Fiz.* 9 (1969), 857-861 *(Russian); translated as Soviet J. Nuclear Phys.* 9 (1969), 501-503. (F. Calogero) 41 #6498

Volkov, I. F.

On a general property of the binomial coefficients. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 50 (1962), 3-7. (G. Biriuk) 35 #1494

Volkov, I. I.

Linear transformations of directionally diverging sequences. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 742-744. (E. Kogbetliantz) 32 #6097

Linear transformations of unbounded complex sequences. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 495-498. (G. Goes) 35 #2004

Summation of unbounded sequences. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 2 (57), 20-25. (G. Goes) 35 #627

Compatibility of two methods of summation. (Russian) *Mat. Zametki* 1 (1967), 283-290. (M. Tomić) 35 #623

Linear transformations of unbounded complex sequences. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 1 (92), 24-35. (H.-H. Körle) 42 #728

The connection between summability and absolute summability by the Cesàro method of complex order. (Russian) *Mat. Zametki* 9 (1971), 13-18. (Hubert Tietz) 44 #4430

Volkov, I. S.

Limit theorems for large deviations in the case of a finite Markov chain. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius,* 1960*)(Russian), pp.* 25-33. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (Z. Šidák) 32 #3136

Volkov, Ju. A.

(with Nevmržickiĭ, N. S.) Tests of unboundedness for curves with periodic curvature and torsion. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 13, 29-34. (A. V. Pogorelov) 36 #2067

Estimate of the deformation of a convex surface as a function of the change in its intrinsic metric. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 1238-1240. (C. S. Weaver) 36 #7084

An estimate of the deformation of a convex surface as a function of the change in its intrinsic metric. (Russian) *Ukrain. Geometr. Sb. Vyp.* 5-6 (1968), 44-69. (A. V. Pogorelov) 44 #964 (with Mehtiev, M. G.) Bendings of infinite convex surfaces in Lobačevskiĭ space. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 19, 30-43. (M. C. Chaki) 38 #6478

(with Dekster, B. V.) An estimate of the curvature of a three-dimensional evolute. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 616-638. (Z. Nádeník) 43 #1094 (E)

(with Oliker, V. I.) The uniqueness of the solution of Christoffel's problem for nonclosed surfaces. (Russian) *Mat. Zametki* 8 (1970), 251-257. (A. V. Pogorelov) 43 #739

Volkov, Ju. Ī.

Certain questions of approximation of functions of a complex variable in regions with angles. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 130-134. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (B. S. Mitjagin) 33 #7563

On a constructive characteristic of functions of a complex variable in regions with a piece-wise smooth boundary. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 3, 115-119. (P. Caraman) 32 #4279

(with Bahtin, A. E.) A method of successive improvement of a plan for the solution of a certain class of nonlinear programming problems. (Russian) *Èkonom. i Mat. Metody* 3 (1967), 581-587. (S. Lebedev (RŽMat 1968 #3 V375)) 42 #7276

The boundary properties of a certain class of functions which are analytic in the disk. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 968-972. (K. W. Lucas) 39 #4364

(with Bīliĭ, V. Ī.) Some applications of integro-differential operators of arbitrary order in the theory of approximation of functions. (Russian) *Izv. Vysš. Učebn. Zabed. Matematika* 1968, *no.* 10 (77), 3-12. (Bl. Sendov) 41 #4079

A certain connection between the properties of a function on the boundary of a disk and its properties inside the disk. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 5, 694-698. (G. Halász) 38 #6075

A Cauchy type integral. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 1133-1135. (V. I. Mel′nik) 44 #6944

Volkov, M. K.

(with Efimov, G. V.) Analytic properties of amplitudes in the second order of nonlinear field theory. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1800-1805 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 1213-1216. (N. Nakanishi) 32 #2067

The Fourier transform in theories with nonrenormalizable interactions. (Russian) *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna,* 1968), *pp.* 546-552. *Izdat. Otdel Ob″edinen. Inst. Jader. Issled., Dubna,* 1968. (W. Güttinger) 40 #5225

Method of construction of the Green's functions in momentum space for unrenormalizable interactions. *Ann. Physics* 49 (1968), 202-218. (A. M. Jaffe) 39 #7910

Green functions in the theory of local unrenormalizable interactions. *Comm. Math. Phys.* 15 (1969), 69-82. (W. Güttinger) 41 #4913

Volkov, M. S.

Plane periodic motions in the problem of two bodies of finite dimensions having a plane of symmetry. (Russian. German summary) *Bjull. Inst. Teoret. Astronom.* 8 (1962), 299-316. (E. Leimanis) 35 #7679

Series representing periodic translational-rotational motion of a satellite in the gravitational field of a sphere. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 9 (1963), 120-143. (K. Magnus) 32 #991

Rotational motion of a satellite near the orbital place. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 9 (1963), 144-153. (K. Magnus) 32 #992

Volkov, R. A.

(with Arhangel′skiĭ, M. M.) On the theory of one-dimensional flows in magneto-gasdynamics. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 147, 245-252 (1964). (H. Hasimoto) 32 #6830

Volkov, T. M.

(See Reviews of plasma physics, 32 #7145)

Volkov, V. I.

The radius of an enclosing sphere in linear subspaces of various metric spaces. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 39 (1964), 6-9. (Victor Klee) 32 #399

On a certain uniformly convergent sequence of linear positive operators in a space of continuous functions. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku,* 1962) *(Russian), pp.* 122-128. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 34 #548

Conditions for the convergence of sequences of linear multiplicative operators. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 32-41. (Ky Fan) 37 #2004

The radius of an enclosing sphere in linear subspaces of the space L_1. (Russian) *Kalinin. Gos. Ped. Inst. Učen. Zap.* 52 (1967), 42-49. (B. Walsh) 37 #3347

* Математический анализ и теория функций. Вып. 1. (Russian) [Mathematical analysis and the theory of functions] Lecture notes. *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1967. 154 *pp.* (Editors) 42 #7836

A certain generalization of S. N. Bernšteĭn's theorem. (Russian) *Kalinin. Gos. Ped. Inst. Ucen. Zap.* 69 (1969), 32-38. (D. L. Ragozin) 43 #6631

The coefficient shift operation. (Russian) *Proc. Central Regional Union of Math. Departments, No.* 1: *Functional Anal. and Function Theory (Russian), pp.* 19-37. *Kalinin. Gos. Ped. Inst., Kalinin,* 1970. (V. I. Mel′nik) 43 #7859

Certain regular methods of the summation of series. (Russian) *Proc. Central Regional Union of Math. Departments, No.* 1: *Functional Anal. and Function Theory (Russian), pp.* 38-75. *Kalinin. Gos. Ped. Inst., Kalinin,* 1970. (V. M. Kokilašvili) 44 #5669

Volkov, V. Ja.

(with Kuprijanov, N. S.) Stability criterion for linear systems with multiple delays. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 5, 170-175 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 5, 152-156 (1969). (E. Ar) 42 #8994

Volkov, V. N.

Inequalities connected with an inequality of Gauss. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 11-13. *(loose errata)* C. Avramescu) 43 #6382

Volkov, V. Ya. See Volkov, V. Ja.

Volkov, Yu. A. See Volkov, Ju. A.

Volkova, L. A.

A basis in a space of entire functions of finite order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 6 (73), 28-34. (J. Rausen) 37 #6741

Volkova, M. E.

(with Maĭkov, G. P.; Cirlin, A. M.) Necessary conditions of optimality for control problems with continuous and discretely changing parameters. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 2, 162-171 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 2, 145-155. (J. Casti) 42 #1560

Volkova, O. F.

(See Śrīdhara, 35 #1433b)

Volkova, V. O.

Development of foundations of geometry in the Ukraine. (Ukrainian) *Istor-Mat. Zbirnik* 2 (1961), 43-56. (H. W. Guggenheimer) 32 #7378

Algebraic geometry in the works of G. V. Pfeĭffer. (Ukrainian. German and loose Russian summaries) *Vīsnik Kiïv. Unīv.* 1970, *no.* 12, 114-120. (Author's summary) 44 #20

Volkovič, V. L.

(with Samoĭlenko, Ju. I.) The optimal filtration of a random field by a distributed receiving apparatus. (Russian) *Complex Systems of Control* (1966) *(Russian), pp.* 61-71. *Naukova Dumka, Kiev,* 1966. (Editors) 39 #5232

The taking of complex decisions for objects with a hierarchical structure. (Russian) *Complex Systems of Control, No.* 4 *(Russian), pp.* 25-36. *Naukova Dumka, Kiev,* 1968. (Editors) 39 #5201

(with Kuhtenko, O. I.) The dynamics of systems for controlling objects, with a hierarchical structure. (Russian) *Complex Control Systems (Proc. Seminar, Kiev,* 1968). *No.* 1 *(Russian), pp.* 71-88. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #6645

(with Radoms′kiĭ, M. F.) The description of hierarchical systems at the dynamic level of abstraction. (Russian) *Complex Control Systems (Proc. Seminar, Kiev,* 1968). *No.* 1 *(Russian), pp.* 89-99. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #6646

Methods of taking decisions on the basis of a set of optimality criteria. (Russian) *Complex Control Systems (Proc. Seminar, Kiev,* 1968). *No.* 1 *(Russian), pp.* 100-112. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #6647

Accuracy of operation of static hierarchical systems. *Avtomatika* 1970, *no.* 3, 47-54 *(Ukrainian); translated as Soviet Automat. Control* 1970, *no.* 3, 37-44. (I. Meznik) 44 #1467

Volkoviski, L. I. See Volkovyskiĭ, L. I.

Volkovych, V. L. See Volkovič, V. L.

Volkovyskiĭ, L. I.

The conformal moduli and quasiconformal mappings. (Russian) *Certain Problems in Mathematics and Mechanics (In Honor of M. A. Lavrent′ev) (Russian), pp.* 65-68. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1961. (E. Reich) 44 #431

(with Rodin, Ju. L.) Generalized analytical functions on the closed Riemann surfaces. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963), *pp.* 369-373. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (B. Rodin) 34 #4485

* (with Lunc, G. L.; Aramanovič, I. G.) A collection of problems on complex analysis. Translated from the Russian by J. Berry. Translation edited by T. Kovari. *Pergamon Press, Oxford-New York-Paris; Addison-Wesley Publishing Co., Inc., Reading Mass.-London,* 1965. x + 426 *pp.* (Editors) 42 #472

Quasiconformal mappings. (Russian) *Second Math. Summer School, Part I (Russian), pp.* 5-14. *Naukova Dumka, Kiev,* 1965. (S. B. Agard) 32 #4268

Certain problems in the theory of quasiconformal mappings. (Russian) *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 68-70. *Izdat. "Nauka", Moscow,* 1966. (J. Ławrynowicz) 34 #6084

(with Babaeva, R. B.) A certain problem on conformal sewing in space. (Russian) *Metrical Questions of the Theory of Functions and Mappings, No.* 1 *(Proc. Colloq. on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk,* 1968*) (Russian), pp.* 3-10. *Izdat. "Naukova Dumka", Kiev,* 1969. (E. Reich) 43 #3440

Certain problems of the theory of quasiconformal mappings. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 210 (1969), 6-8. (K. W. Lucas) 43 #6430

(with Mansurov, H. M.; Romanov, N. P.) Studies in the theory of functions. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 373 (1970), 29-36. (Editors) 43 #1804

Volkovysskiĭ, K. L.

(with Sinaĭ, Ja. G.) Ergodic properties of an ideal gas with an infinite number of degrees of freedom. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 19-21. (V. Drobot) 44 #6289

Volland, Hans

Plasmawellen im inhomogenen Medium. *Z. Naturforsch.* 20a (1965), 1143-1149. (Author's summary) 32 #3449

van Vollenhoven, J.

(with Seidel, J. J.) Hutually congruent conics in a net. *Simon Stevin* 37 (1963/64), 20-24. (F. Şemin) 29 #6388

Vollmar, R.

Über einen Automaten mit Pufferspeicherung. (English summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 57-70. (S. Ginsburg) 41 #5127

(with Kameda, T.) Note on tape reversal complexity of languages. *Information and Control* 17 (1970), 203-215. (Authors' summary) 42 #7446

Vollmerhaus, Walter

Ein kombinatorischer Beweis des Satzes von Kuratowski zur Charakterisierung ebener Graphen. *Math. Ann.* 181 (1969), 279-284. (T. A. Brown) 39 #5406

Graph theoretical methods in diffusion theory. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford,* 1969*), pp.* 285-289. *Academic Press, London,* 1971. (From the author's introduction) 43 #3152

Vollrath, Hans-Joachim

Grundgedanken der Omega-Analysis und ihrer Anwendung auf die Bestimmung reeler Grenzwerte. *Math.-Phys. Semesterber.* 15 (1968), 102-111. (O. Frink) 38 #4383

* (with Laugwitz, Detlef) Schulmathematik vom höheren Standpunkt. Band I. B. I. Hochschultaschenbücher, 118/118a. *Bibliographisches Institut, Mannheim-Zürich,* 1969. 195 *pp.* (Editors) 39 #5281

Einige neuere Beweismethoden in der Logik. B. I.-Hochschultaschenbücher 247/247a. *Überblicke Math.* 3 (1969), 97-111. (M. Makkai) 42 #4378

Vol'mir, A. S.

(with Kil'dibekov, I. G.) Non-linear acoustical vibrations of a cylindrical shell. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 3, 65-70. (R. N. Goss) 29 #5453

(See also Mechanics of a solid body, 34 #2c)

Voloboev, B. A.

(with Biĭčuk, L. M.; Timčenko, A. A.) Development of the methods of structural synthesis for nonlinear systems of automatic control. (Ukrainian. Russian and English summaries) *Avtomatika* 1967, *no.* 5, 48-56. (C. Olech) 36 #3588

(with Činaev, P. I.) A study of systems with delay using Legendre polynomials. *Avtomatika* 1968, *no.* 4, 27-33 *(Ukrainian); translated as Soviet Automat. Control* 1968, *no.* 4, 19-24 (1969). (L. J. Grimm) 44 #5137

Volodarskiĭ, A. I.

Mathematical treatise ***Pāṭīgaṇita*** by Śrīdhara. (Russian) *Phys. Math. Sci. in the East (Russian), pp.* 141-159. *Izdat. "Nauka", Moscow,* 1966. (E. S. Kennedy) 35 #1433a

(See also Śrīdhara, 35 #1433b)

Notes on the treatise ***Pāṭīgaṇita*** by Śrīdhara. (Russian) *Phys. Math. Sci. in the East (Russian), pp.* 182-246. *Izdat. "Nauka", Moscow,* 1966. (E. S. Kennedy) 35 #1433c

On Mahāvīrācārya's treatise ***A short course in mathematics.*** (Russian) *Phys. Math. Sci. in the East, No.* 2 *(Russian), pp.* 98-130. *Izdat. "Nauka", Moscow,* 1969. (I. N. Veselovskiĭ) 41 #9

Volodčenkov, V. I.

On the question of the conditions for a center for the differential equation $dr/d\phi = -(r^2u_1 + r^3u_2 + \cdots + r^{k+1}u_k)/(1 - rv_1 - r^2v_2 - \cdots - r^kv_k)$. (Russian) *Smolensk. Gos. Ped. Inst. Učen. Zap.* 18 (1967), 70-79. (V. V. Amel'kin) 42 #585

The conditions for a center for the equation $dr/d\phi = -r^2u/(1 - rv)$. (Russian) *Smolensk. Gos. Ped. Inst. Učen. Zap.* 18 (1967), 80-83. (V. V. Amel'kin) 42 #586

Volodin, B. G.

* (with Ganin, M. P.; Diner, I. Ja.; Komarov, L. B.; Svešnikov, A. A.; Starobin, K. B.) Сборник задач по теории вероятностей, математической статистике и теории случайных функций. (Russian) [Collection of problems in the theory of probability, mathematical statistics and theory of random functions] Edited by A. A. Svešnikov. *Izdat. "Nauka", Moscow,* 1965. 632 *pp.* (M. R. Leadbetter) 32 #8366

* (with Diner, I. Ja.; Ganin, M. P.; Komarov, L. B.; Svešnikov, A. A.; Starobin, K. B.) Wahrscheinlichkeitsrechnung und mathematische Statistik in Aufgaben. Unter der Redaktion von A. A. Sweschnikow. Aus dem Russischen übersetzt von R. Mühlig. Mathematik für technische Hochschulen, Band 9. *BSB B. G. Teubner Verlagsgesellschaft, Leipzig,* 1970. vii + 500 *pp.* (Editors) 43 #1235

Volodin, I. N.

The joint distribution of the maximum and minimum of a trajectory of a Wiener process. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 122 (1962), *Kn.* 4, 39-52. (Petr Mandl) 29 #6520

Estimating parameters of a distribution by the method of the minimum of ω^2 and the $n\omega^2$ criterion of Smirnov in the parametric case. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 2, 12-20. (W. Hoeffding) 33 #6752

Testing the hypothesis of normality of a distribution by small samples (multivariate case). (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 2, 21-25. (S. Kullback) 33 #6761

Testing of statistical hypotheses on the type of distribution by small samples. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 6, 3-23 (1966). (S. Kullback) 37 #1016

On the distinction between the Poisson and Pólya distributions when a large number of small samples is available. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 364-367. (Author's summary) 31 #6299

The number of observations necessary for distinguishing between two similar hypotheses. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 575-582. (V. Kurotschka) 36 #2257

The number of observations needed to distinguish two hypotheses on the parameter of the binomial distribution. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 327-332. (J. Wolfowitz) 39 #7725

(with Pomeranec, B. M.; Šil'nikova, V. D.) Asymptotic analysis of the distribution of selective correlation coefficients and its statistical applications. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 130 (1970), *kn.* 3, 3-17. (G. Tusnády) 44 #6093

The beta-distribution for small parameter values. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 563-567. (I. I. Kotlarski) 43 #4167

Volodīn, V. P.

On the method of Hill in the theory of linear differential equations with periodic coefficients. (Russian) *Theory of Automatic Control (Proc. Seminar, Kiev,* 1968*). No.* 1 *(Russian), pp.* 3-13. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. (Editors) 39 #7220

Volohin, A. V.

The representation of entire functions by sequences of linear aggregates. (Russian) *Gor'kov. Gos. Univ. Učen. Zap. Vyp.* 80 (1967), č. 2, 21-31. (C. Tanaka) 41 #8671

Volosevič, P. P.

(with Samarskiĭ, A. A.; Kurdjumov, S. P.) Running waves in a medium with non-linear heat-conductivity. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 199-217. (L. Dragoş) 33 #2073

Vološin, G. Ja.

Spectral analysis of speech signals by means of electronic computers. (Russian) *Vyčisl. Sistemy No.* 10 (1964), 20-40. 29 #3022

Certain properties of many-dimensional spectra. (Russian) *Vyčisl. Sistemy Vyp.* 19 (1965), 13-20. (I. Kovalenko (RŽMat 1966 #7 V130)) 35 #663

Vološina, M. S.

The Tauber-Ljapunov theorem for certain integrals of the type of a double layer potential. (Ukrainian. Russian and English summaries) *Dopovīdî Akad. Nauk Ukraîn. RSR Ser. A* 1967, 486-489. (A. Kufner) 36 #412

A property of certain integrals of double layer potential type. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 580-584. (V. F. Dem'janov) 36 #413

Some properties of a certain class of integrals of double layer potential type. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 391-396. (Author's summary) 37 #4280

A theorem of Ljapunov for certain integrals of double layer potential type. (Ukrainian. Russian summary) *Vīsnik L'vīv. Polītehn. Inst. No.* 44 (1970), 85-90, 212. (V. Komkov) 44 #1931

Vološinova, T. V.

On the question of the autonomy and invariance of multiply connected control systems. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 19, 76-85. (K. Magnus) 41 #8087

The physical realizability and stability of autonomous and invariant systems of multiply connected control. (Russian. English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 1, 93-101. (P. Brunovský) 44 #8011

Vološins, J. M.

* (with Eršov, A. P.; Kožuhin, G. I.) Input language for automatic programming systems. Authorized translation from the Russian; with an introduction by R. W. Hockney. *Published for The Automatic Programming Information Centre, Brighton College of Technology by Academic Press, London-New York,* 1963. ix + 70 *pp.* (B. A. Galler) 30 #3585; erratum, 38, p. 1375

Volosov, V. M.

Theorem on averaging in an infinite time interval. (Russian. English and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 227-229. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (W. A. Coppel) 32 #4342

Asymptotic methods of calculation of rotating motions. (Russian. German and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 21-30. (R. M. Evan-Iwanowski) 33 #2010

(with Morgunov, B. I.) On the estimation of oscillatory behaviour for certain non-Hamiltonian systems. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1048-1050. (W. S. Loud) 31 #2458

(with Morgunov, B. I.) Asymptotic estimation of certain rotational motions in the case of resonance. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1303-1305. (E. Leimanis) 31 #5375

(with Medvedev, G. N.; Morgunov, B. I.) Application of the averaging method to the solution of certain systems of differential equations with deviating argument. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1965, *no.* 6, 89-91. (W. S. Loud) 32 #7904

(with Morgunov, B. I.) Certain conditions for stability connected with the study of resonances. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 239-241. (Herbert I. Freedman) 34 #3039

(with Akulenko, L. D.) On the question of stationary rotations in an autonomous system. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 6, 34-39. (Marko Švec) 34 #7890

(with Vasil'eva, A. B.) Works of A. N. Tihonov and his students in differential equations containing a small parameter. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 2 (134), 149-168. 34 #5626

(with Akulenko, L. D.) On resonance in a rotational system. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 1, 12-16. (J. M. Skowroński) 34 #8682

(with Akulenko, L. D.) Resonance rotations of higher degrees. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 2, 10-14. (K. Magnus) 34 #8683

(with Medvedev, G. N.; Morgunov, B. I.) The application of the method of averaging to certain systems of differential equations with deviating argument. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 22 (1967), *no.* 2, 129-131. (Editors) 38 #3552

(with Morgunov, B. I.) Lectures on asymptotic methods of investigating stationary resonance regimes of nonlinear oscillating systems. (Russian) *Fifth Math. Summer School (Uzhgorod, 1967): The Theory of Ordinary Differential Equations and Nonlinear Oscillations (Russian), pp.* 158-223. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. (G. Bojadžiev) 42 #2109

(with Morgunov, B. I.) Methods of computation of stationary resonant oscillatory and rotary motions of certain nonlinear systems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 251-294. (D. P. Rašković) 37 #4334

(with Medvedev, G. N.; Morgunov, B. I.) A study of certain quasilinear systems of differential equations with lag. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 24 (1969), *no.* 5, 115-116. (J. Carkovs) 41 #2169

(with Morgunov, B. I.) Averaging in quasilinear systems. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 24 (1969), *no.* 4, 110-112. (H. I. Freedman) 41 #8766

Volovič, V. M.

On the solution of systems of linear algebraic equations by block methods. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 106-133. *Izdat. Moskovsk. Univ., Moscow,* 1965. (A. S. Householder) 32 #6660

The solution of linear algebraic systems of equations of large order on machines with small operative memory. (Russian) *Computing Methods and Programming, VIII (Russian), pp.* 229-242. *Izdat. Moskov. Univ., Moscow,* 1967. (I. Šelihova (RŽMat 1968 #6 B821)) 43 #8278

Volpe di Prignano, Ernesto

Considerazioni sopra un procedimento per la stima degli autovalori di una matrice simmetrica. *Rend. Mat. e Appl.* (5) 22 (1963), 439-446. (H. Schwerdtfeger) 29 #6622

Vol'pert, A. I.

The normal solvability of boundary value problems for elliptic systems of differential equations in the plane. (Russian) *Teoret. Prikl. Mat. Vyp.* 1 (1958), 28-57. (D. A. Lee) 34 #4695

On the reduction of boundary value problems for elliptical systems of equations of higher order to problems for systems of first order. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukrain. RSR* 1960, 1162-1166. (Author's summary) 29 #6159

Differentiation and quasi-linear operators in the space of functions whose generalized derivatives are measures. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 1027-1029. (M. Dostál) 35 #4724

Spaces BV and quasilinear equations. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 255-302. (Z. Zieleźny) 35 #7172

(with Hudjaev, S. I.) The Cauchy problem for second order quasilinear degenerate parabolic equations. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 374-396. (Ju. Dubinskiĭ (RŽMat 1969 #9 B299)) 41 #8828

Vol'pert, A. Ja.

A generalization of absolute continuity of a function. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 4 (41), 30-38. (H. Fast) 32 #5816

Vol'pert, G. A.

(See Nevanlinna, R., 35 #6432)

Vol'pin, A. S. Esenin. See Esenin-Vol'pin, A. S.

Volta, Vittorio Dalla. See Dalla Volta, Vittorio.

Voltaggio, F.

(See Bolzano, Bernard, 34 #11)

Vol'vačev, R. T.

On the order of an element of a matrix group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1965, *no.* 2, 11-16. (C. Hering) 34 #5943

Periodic nilpotent linear groups over the field of rational numbers. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 499-502. (L. G. Kovács) 36 #2712

Periodic nilpotent linear groups over the field of rational numbers. (Russian) *Mat. Sb. (N.S.)* 70(112) (1966), 368-379. (O. H. Kegel) 33 #5745

(with Berman, S. D.; Kalužnin, L. A.) Dmitriĭ Alekseevič Suprunenko. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 170-171. (Editors) 34 #17

The irreducible Abelian normal divisor of an absolutely irreducible locally nilpotent linear group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 3, 82-89. (O. H. Kegel) 34 #7671

(with Suprunenko, D. A.) Linear groups. (Russian) *Algebra, Topology, Geometry,* 1965 *(Russian), pp.* 45-61. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. (H. Salzmann) 36 #282

The elementary theory of modules. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1967, *no.* 4, 7-12. (Ju. L. Eršov) 38 #27

Positive and elementary linear groups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 753-755. (D. Monk) 39 #1316

Linear groups as axiomatizable classes of models. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 209-211. (S. Comer) 43 #4653

Volynskiĭ, A. B.

(See Serre, Jean-Pierre, 40 #5795)

Volynskiĭ, B. A.

* (with Buhman, V. E.) Analogues for the solution of boundary-value problems. Translated by Jacques J. Schorr-Kon. Translation edited by J. G. L. Michel. International Tracts in Computer Science and Technology and their Application, Vol. 13. *Pergamon Press, Oxford-Edinburgh-New York,* 1965. xi + 460 *pp.* (Editors) 32 #611

Volz, Richard A.

(with Kawamura, K.) On the convergence of the conjugate gradient method in Hilbert space. *IEEE Trans. Automatic Control* AC-14 (1969), 296-297. (J. W. Daniel) 40 #1008 (E)

(with Kawamura, K.) Correction to "On the convergence of the conjugate gradient method in Hilbert space". *IEEE Trans. Automatic Control* AC-14 (1969), 784-785. (Authors' summary) 42 #8354

(with Lawser, John J.) Some aspects of nonzero-sum differential games. *IEEE Trans. Automatic Control* AC-16 (1971), 66-69. (A. Blaquière) 44 #7990

Von Baeyer, H. C. See von Baeyer, H. C.

Von Bahr, Bengt. See von Bahr, Bengt.

Von den Steinen, Jürgen. See von den Steinen, Jürgen.

Von Ellenrieder, A. See von Ellenrieder, A.

Vonessen, Franz
(See Leibniz, Gottfried Wilhelm, 38 #4268)

Von Finckenstein, Karl Graf Finck. See Finck von Finckenstein, Karl.

Von Golitschek, M. See von Golitschek, Manfred.

Vongpanitlerd, Sumeth
On the stability of linear discrete-time systems. *IEEE Trans. Automatic Control* AC-14 (1969), 207-208. (E. Ar) 40 #3942

Von Helmholtz, Hermann. See von Helmholtz, Hermann.

Von Hippel, Frank. See von Hippel, Frank.

Von Humboldt, Alexander. See von Humboldt, Alexander.

Von Kutschera, Franz. See Kutschera, Franz.

Von Lanzenauer, Christoph Haehling
(with Himes, Richard C.) A linear programming solution to the general sequencing problem. (French summary) *CORS J.* 8 (1970), 129-134. (J. Stoer) 42 #1519

Von Mackensen, Ludolf. See von Mackensen, Ludolf.

Von Randow, Rabe. See von Randow, Rabe.

Von Rosenberg, Dale U. See von Rosenberg, Dale U.

Von Targonski, Georg. See Targonski, György I.

Vontobel, Jürg
(with Spycher, Ulrich) Geometrische Überlegungen zum Problem der Schriftzeichenerkennung. (English summary) *Z. Angew. Math. Phys.* 22 (1971), 66-78. (F. W. Stallmann) 44 #3535

Von Tschirnhaus, Ehrenfried Walther. See von Tschirnhaus, Ehrenfried Walther.

Von Wahl, Wolf. See von Wahl, Wolf.

Von Waldenfels, Wilhelm. See von Waldenfels, Wilhelm.

Von Wolfersdorf, L. See von Wolfersdorf, Lothar.

Von Wolff, M. R.
Application of the domain of action method to $|xy| \leq 1$. *Illinois J. Math.* 8 (1964), 500-522. (M. S. Cheema) 29 #3443

Von Wright, Georg Henrik. See von Wright, Georg Henrik.

van de Vooren, Adriaan Isak
(with van de Vel, H.) Unsteady profile theory in incompressible flow. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 709-735. (J. W. Miles) 32 #3379

(with van Linde, H. J.) Numerical calculation of integrals with strongly oscillating integrand. *Math. Comp.* 20 (1966), 232-245. (Authors' summary) 33 #869

Voorn, W. J.
Estimation of a population mean under unequal selection probabilities. (Dutch. English summary) *Statistica Neerlandica* 23 (1969), 287-294. 41 #4722

Vopěnka, Petr
Axiome der Theorie endlicher Mengen. (Czech and Russian summaries) *Časopis Pěst. Mat.* 89 (1964), 312-317. (A. R. Anderson) 32 #4014

(with Bukovsky, Leo) The existence of a PCA-set of cardinal $\aleph_1$. *Comment. Math. Univ. Carolinae* 5 (1964), 125-128. (A. Mostowski) 29 #5743

The independence of the continuum hypothesis. (Russian. English summary) *Comment. Math. Univ. Carolinae* 5 (1964), *suppl. I*, 48 *pp.* (A. Mostowski) 29 #5742

The limits of sheaves and applications on constructions of models. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 189-192. (A. Mostowski) 32 #53

On ∇-model of set theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 267-272. (A. Mostowski) 32 #54

Properties of ∇-model. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 441-444. (G. Fodor) 32 #7400

(with Hájek, P.) Permutation submodels of the model ∇. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 611-614. (W. Marek) 33 #2530

(with Pultr, A.; Hedrlín, Z.) A rigid relation exists on any set. *Comment. Math. Univ. Carolinae* 6 (1965), 149-155. (J. Mycielski) 32 #1127

Concerning a proof of $\aleph_{\alpha+1} \leqq 2^{\aleph_\alpha}$ without axiom of choice. *Comment. Math. Univ. Carolinae* 6 (1965), 111-113. (A. Lévy) 30 #4685 (E)

Concerning a proof of $\aleph_{\alpha+1} \leqq 2^{\aleph_\alpha}$ without axiom of choice: A correction. *Comment. Math. Univ. Carolinae* 6 (1965), 337. (A. Lévy) 32 #5529

The first measurable cardinal and the generalized continuum hypothesis. *Comment. Math. Univ. Carolinae* 6 (1965), 367-370. (G. Fodor) 32 #7422

(with Hájek, P.) Some permutation submodels of the model ∇. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 1-7. (W. Marek) 33 #2531

∇-models in which the generalized continuum hypothesis does not hold. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 95-99. (Walter Oberschelp) 34 #41

A new proof of the Gödel's result on non-provability of consistency. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 111-116. (E. Engeler) 34 #7361

(with Hrbáček, K.) On strongly measurable cardinals. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 587-591. (G. Fodor) 35 #2747

(with Hedrlín, Z.) An undecidable theorem concerning full embeddings into categories of algebras. *Comment. Math. Univ. Carolinae* 7 (1966), 401-409. (F. E. J. Linton) 34 #2657b

The limits of sheaves over extremally disconnected compact Hausdorff spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 1-4. (E. Engeler) 37 #912

(with Hrbáček, K.) The consistency of some theorems on real numbers. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 107-111. (L. Gillman) 37 #1255

(with Hájek, P.) Concerning the ∇-models of set theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 113-117. (W. Marek) 37 #5094; erratum, 37, p. 1470.

General theory of ∇-models. *Comment. Math. Univ. Carolinae* 8 (1967), 145-170. (Walter Oberschelp) 35 #5310

(with Štěpánek, Petr) Decomposition of metric spaces into nowhere dense sets. *Comment. Math. Univ. Carolinae* 8 (1967), 387-404; *correction, ibid.* 8 (1967), 567-568. (E. Engeler) 37 #1250

(with Balcar, B.) On complete models of the set theory. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 839-841. (W. Marek) 39 #3989

(with Balcar, B.) Generator classes in set theory. *Z. Math. Logik Grundlagen Math.* 13 (1967), 97-98. (M. Morley) 35 #1467

Voráček, Jan
A note on successive approximations of the solutions of the ordinary differential equation $y' = f(x, y)$. (Czech. Russian and French summaries) *Sb. Prací Přírodověd. Fak. Univ. Palackého v Olomouci* 12 (1963), 75-80. (From the author's summary) 43 #2267

Einige Bemerkungen über eine nichtlineare Differentialgleichung dritter Ordnung. (English and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 372-378. (P. Waltman) 33 #2879

Einige Bemerkungen über eine nichtlineare Differentialgleichung dritter Ordnung. *Arch. Math. (Brno)* 2 (1966), 19-26. (R. Reissig) 33 #7645

Sur une équation différentielle non linéaire du troisième ordre. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1969, *číslo* 500, 37-43. (T. L. Sherman) 43 #3553

Über eine nichtlineare Differentialgleichung dritter Ordnung. *Czechoslovak Math. J.* 20(95) (1970), 207-219. (M. E. Muldoon) 41 #3879

deVore, Ronald. See DeVore, Ronald.

Vorel, Zdeněk
(with Doležal, Václav) Theory of Kirchhoff's networks. (Czech and Russian summaries) *Časopis Pěst. Mat.* 87 (1962), 440-476. (N. H. Choksy) 32 #5444

(with Imaz, Carlos) A certain type of stability. (Spanish) *Bol. Soc. Mat. Mexicana* (2) 8 (1963), 46-52. (S. Lefschetz) 29 #323

(with Imaz, C.) On domains of controllability of proper and normal systems. *Bol. Soc. Mat. Mexicana* (2) 8 (1963), 79-88. (H. Hermes) 29 #4630

(with Doležal, Václav) Periodic solutions of Kirchhoff's networks. (Czech and Russian summaries) *Časopis Pěst. Mat.* 88 (1963), 479-491. (N. H. Choksy) 32 #5445

On a limit case of relaxation oscillations. (Russian and Polish summaries) *Nonlinear Vibration Problems, 5, Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 370-375. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (H. Saunders) 33 #917

(with Doležal, Václav) On periodic states in Kirchhoff's networks. (Czech. Russian and English summaries) *Apl. Mat.* 9 (1964), 31-37. (Authors' summary) 31 #6532

(with Imaz, C.) Approximate stability and control. (German and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 255-259. (J. O. C. Ezeilo) 34 #431

(with Oliva, F.) Functional equations and generalized ordinary differential equations. *Bol. Soc. Mat. Mexicana* (2) 11 (1966), 40-46. (J. Prouse) 39 #584

(with Imaz, Carlos) Generalized ordinary differential equations in Banach space and applications to functional equations. *Bol. Soc. Mat. Mexicana* (2) 11 (1966), 47-59. (L. Losonczi) 38 #386

Some asymptotical properties of domains of controllability for linear control systems. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif.,* (1967), *pp.* 427-432. *Academic Press, New York,* 1967. (P. Brunovsky) 41 #1413

* (with Imaz, Carlos) Ecuaciones diferenciales ordinarias. (Spanish) [Ordinary differential equations] *Editorial Limusa-Wiley, S. A., Mexico City,* 1968. 245 *pp.* (J. J. Schäffer) 40 #426

(with Imaz, C.; Oliva, F.) Existence of solutions of retarded functional equations with non continuous initial conditions. *Bol. Soc. Mat. Mexicana* (2) 14 (1969), 31-38. (J. K. Hale) 41 #7239

Vorlíčková, Dana

Asymptotic properties of rank tests under discrete distributions. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 275-289. (A. P. Basu) 42 #3946

Vornicescu, N.

(with Bal, L.) On nomographic representations of equations in four variables. (Romanian. French summary) *Bul. Şti. Inst. Politehn. Cluj* 12 (1969), 19-26. (M. Şt. Botez) 44 #3524

Vornovickiĭ, M. Ja.

On the solution of a certain problem of optimal control of motion. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 1, 97-103. (J. Jarník) 40 #7000

Vorobʹev, A. P.

On the rational solutions of the second Painlevé equation. (Russian) *Differencialʹnye Uravnenija* 1 (1965), 79-81. 32 #5957

Qualitative investigation in the large of integral curves of isochronous systems of two differential equations. (Russian) *Differencialʹnye Uravnenija* 1 (1965), 439-441. (George Biriuk) 33 #4381

Sufficiency conditions for isochronism of canonical systems of two differential equations. (Russian) *Differencialʹnye Uravnenija* 1 (1965), 582-584. (S. Lefschetz) 33 #6028

The cycles of a certain first order equation. (Russian) *Differencialʹnye Uravnenija* 5 (1969), 1159-1166. (O. Hájek) 40 #5968

Vorobʹev, E. M.

Asymptotics of the eigenfunctions of the two-dimensional scalar wave equation with boundary conditions on equidistant curves. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 21 (1966), *no.* 5, 22-29. (A. Langenbach) 34 #6351

A certain asymptotic method for calculating resonators. (Russian) *Moskov. Inst. Èlektron. Mašinostroenija—Trudy MIÈM* 1968, *vyp.* 4, 126-145. 44 #3035

Vorobʹev, Ju. V.

* Die Momentenmethode in der angewandten Mathematik. Mathematik für Naturwissenschaft und Technik, Band 4. Translated from the Russian by H. Schemmel. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1961. viii + 143 *pp.* (Editors) 31 #2854

A random iteration process. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 1088-1093. (Č. Masaitis) 30 #5462

* Methods of moments in applied mathematics. Translated from the Russian by Bernard Seckler. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. x + 168 *pp.* (Editors) 32 #1872

A random iteration process. II. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 787-795. (Č. Masaitis) 34 #7004

A random iteration process in the method of alternating directions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 663-670. (B. Kellogg) 38 #2960

Vorobʹëv, L. M.

Applicability of a method of Čaplygin to a system of differential equations of a special form. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 135-141. (C. E. Langenhop) 32 #1412

(with Vorobʹeva, T. M.) On the solution of variational problems of a non-classical type. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 270-273. (L. D. Berkovitz) 33 #5386

Vorobʹev, N. M.

On the application of sequential analysis for the detection of disorder in a manufacturing process. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 733-736. 32 #6636

Vorobʹev, N. N. See Vorobĭov, M. M.

Vorobʹev, Nikolaĭ Nikolaevič

* Математическая теория игр. (Russian) [The mathematical theory of games] *Obšč. po Razprostran. Polit. Naučn. Znaniĭ RSFSR, Leningrad,* 1963. 72 *pp.* (A. Korbut (RŽMat 1964 #7 V454)) 36 #4904

* The Fibonacci numbers. Translated and adapted from the first Russian edition (1951) by Norman D. Whaland, Jr., and Olga A. Titelbaum. Survey of Recent East European Mathematical Literature, a project conducted by Alfred L. Putnam and Izaak Wirszup. Topics in Mathematics. *D. C. Heath and Co., Boston, Mass.,* 1963. v + 47 *pp.* (E. Frank) 29 #5777

On a topologization of the set of interior consistent families of measures. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 8 (1963), 444-451. (S. G. Ghurye) 29 #6546

Markov measures and Markov extensions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 8 (1963), 451-462. (S. G. Ghurye) 29 #6547

* Числа Фибонацци. (Russian) [Fibonacci numbers] Second edition. *Izdat. "Nauka", Moscow,* 1964. 71 *pp.* (A. Rényi) 31 #5828

A constructive calculus of statements with strong negation. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 195-227. (G. N. Raney) 33 #44

(with Kislicyn, S. S.; Mihaĭlova, A. S.) The "tiredness-rest" model. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1965, *no.* 1, 21-27. (N. H. Choksy) 32 #9036

* Grundlagen der Spieltheorie und ihre praktische Bedeutung. Vom Autor verbesserte und erweiterte Auflage. Übersetzt aus dem Russischen von N. M. Küssel. *Physica-Verlag, Würzburg-Vienna,* 1967. 84 *pp.* (Editors) 36 #4905

(See also Theory of games: Positional games, 36 #4906; Ore, O., 39 #88; and fon Neĭman, Dž., 42 #4213)

Positional games. (Russian) *Theory of games: Positional games (Russian), pp.* 5-12. *Izdat. "Nauka", Moscow,* 1967. (Editors) 36 #4907

Reduced strategies in positional games. (Russian) *Theory of games: Positional games (Russian), pp.* 94-113. *Izdat. "Nauka", Moscow,* 1967. (J. R. Isbell) 36 #6210

The problem of endomorphisms of complete semi-lattices of sets. (Russian) *Theory of games: Positional games (Russian), pp.* 183-186. *Izdat. "Nauka", Moscow,* 1967. (J. Jakubík) 36 #7421

Extremal algebra of positive matrices. (Russian. English and German summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 39-71. (H. Schwerdtfeger) 35 #7683

Coalition games. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 289-306. (M. Iosifescu) 36 #2406; erratum, 37, p. 1469.

(with Malinnikov, V. V.; Sobolev, A. I.) Linear programming problems on oriented graphs. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 622-628. (Authors' introduction) 43 #1625

The "attack-defense" game. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 437-444. (J. R. Isbell) 39 #7951

* Grundfragen der Spieltheorie und ihre praktische Bedeutung. Übersetzung aus dem Russischen von Norbert M. Küssel. Dritte, berichtigte Auflage. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 84 *pp.* (Editors) 40 #6968

* Числа Фибоначчи. (Russian) [Fibonacci numbers] Third augmented edition. Popular Lectures on Mathematics, No. 6. *Izdat. "Nauka", Moscow,* 1969. 110 *pp.* (Editors) 41 #1626

Extremal algebra of non-negative matrices. (Russian. German and English summaries) *Elektron. Informationsverarbeit. Kybernetik* 6 (1970), 303-311. (E. Seneta) 43 #4844

Positional games and statistical decision making. (Russian) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 1, 45-53. (M. Iosifescu) 42 #1529

The present state of game theory. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2 (152), 81-140. (M. Iosifescu) 41 #5059

Vorobʹev, Yu. V. See Vorobʹev, Ju. V.

Vorobʹeva, A. P.

(with Medvedev, G. S.) Inversion of matrices of a special form. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 406-408. (A. S. Householder) 35 #2473

Vorobʹeva, M. A.

Estimate of the deviation of a function from the linear means of certain trigonometric polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 5 (72), 30-36. (J. Albrycht) 37 #4491

Approximation of functions with a given modulus of continuity by certain trigonometric polynomials. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 6 (97), 46-62. (A. B. Németh) 44 #5687

Vorob'eva, M. G.
(with Rožanskaja, M. M.; Veselovskiĭ, I. N.) The ancient Khorezm monument Koĭ-Kryglan-kala of the fourth century B. C. from the point of view of the history of astronomy. (Russian) *Istor.-Astronom. Issled. Vyp.* 10 (1969), 15-34. (1 *foldout*) (G. Chogoshvili) 41 #1474

Vorob'eva, N. A.
(with Frank, L. S.; Čudov, L. A.) Difference methods of solution of an ill-posed Cauchy problem for the three-dimensional Laplace equation. (Russian) *Computing Methods and Programming, XI: Numerical Methods in Gas Dynamics (Russian)*, pp. 147-155. *Izdat. Moskov. Univ., Moscow*, 1968. (I. Nedjalkov) 44 #3510

Vorob'eva, T. M.
(with Vorob'ev, L. M.) On the solution of variational problems of a non-classical type. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 270-273. (L. D. Berkovitz) 33 #5386

Vorobiev, N. N. See Vorob'ev, Nikolaĭ Nikolaevič.

Vorobĭov, M. M.
Approximation of analytic functions by partial sums of the Faber series. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR* 1966, 138-141. (M. Tomić) 34 #7813
A remark on a theorem of V. K. Dzjadyk on approximation of functions of the class W^rH^α. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 6-8. (From the author's introduction) 35 #4442
Approximation of continuous functions of certain classes given on Jordan arcs. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 3, 90-95. (J. T. Scheick) 36 #581
The simultaneous approximation of functions and their derivatives in a complex domain. (Russian) *Ukrain. Mat. Ž.* 20 (1968), *no.* 1, 113-119. (D. A. Brannan) 37 #433
(with Poljakov, R. V.) The constructive character of continuous functions given on smooth arcs. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 750-758. (V. M. Kokilašvili) 40 #3134

Vorobjev, N. N. See Vorob'ev, Nikolaĭ Nikolaevič.

Vorobjoff, N. N. See Vorob'ev, Nikolaĭ Nikolaevič.

Vorobjov, N. N. See Vorob'ev, Nikolaĭ Nikolaevič.

Vorobyov, N. N. See Vorob'ev, Nikolaĭ Nikolaevič.

Voroncova, I. P.
(with Varšavskiĭ, V. I.) On the behavior of stochastic automata with a variable structure. *Avtomat. i Telemeh.* 24 (1963), 353-360 *(Russian. English summary); translated as Automat. Remote Control* 24 (1963), 327-333. (R. M. Karp) 29 #1110

Voroncova, N. S.
(with Atanasjan, L. S.) Special normalizations of degenerate hypersurfaces of an $(n + 1)$-dimensional projective space. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 5-9. (K. Svoboda) 34 #706
Inner normalization of degenerate hypersurfaces of rank r with an $(n - r - 1)$-dimensional vertex in $(n + 1)$-dimensional projective space. (Russian) *Čeljabinsk. Gos. Ped. Inst. Trudy* 2 (1964), 13-16. (L. Tamássy) 35 #6063
(with Atanasjan, L. S.) Constructing an invariant normalization for an r-degenerate hypersurface of a multidimensional projective space. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 5-28. (L. Tamássy) 34 #738

Voronec, P. V.
(See Fradlin, B. N., 33 #3869)

Voronīn, A. M.
(with Boĭčuk, L. M.) Invariance theory in control systems. A survey. *Avtomatika* 1969, *no.* 4, 3-19 *(Ukrainian); translated as Soviet Automat. Control--Ukrain. J. Automat.* 1969, *no.* 4, 1-13. (E. Ar) 42 #8950

Voronin, V. S.
(with Kolomenskiĭ, A. A.) The pressure of an intense plane wave on a free charge and on a charge in a magnetic field. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1528-1535 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 1027-1031. (Authors' summary) 32 #2025

Voronkova, A. I.
The solution of boundary value problems for Laplace's equation by the method of mesh Green's functions. (Russian) *Metody Vyčisl.* 4 (1967), 13-20. (E. L. Albasiny) 37 #2469
A solution of the first boundary value problem for a biharmonic equation on the halfaxis by means of the network Green's function. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 667-676. (F. M. Pascal) 44 #4927

Voronova, L. I.
(with Krementulo, Ju. V.) A new method of determining the characteristics of complicated dynamical systems. (Russian) *Complex Systems of Control* (1966) *(Russian)*, pp. 82-101. *Naukova Dumka, Kiev*, 1966. (J. Burlak) 39 #5177
Methods of determining the dynamic characteristics of controlled objects with concentrated parameters in the course of their normal operation. (Russian) *Complex Systems of Control, No.* 4 *(Russian)*, pp. 81-97. *Naukova Dumka, Kiev*, 1968. (Editors) 39 #5178

Voronova, V. F.
The invariance of the position of the integral curves of a certain differential equation in the neighborhood of a singular point. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 51-56. (I. Kukles (RŽMat 1965, #3 B316)) 40 #1644
(with Kudinova, Z. G.) An investigation of a singular point of the equation $y' = k(ax + by)/(cx + dy)$. (Russian) *Rjazansk. Gos. Ped. Inst. Učen. Zap.* 35 (1963), 57-59. (I. Kukles (RŽMat 1964 #10 B147)) 40 #1645

Voronovskaia, E. V. See Voronovskaja, E. V.

Voronovskaja, E. V.
Method of functionals in classical problems of the approximation of functions. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian)*, pp. 107-116. *Fizmatgiz, Moscow*, 1961. (G. Biriuk) 34 #4775
* Метод функционалов и его приложения. (Russian) [The method of functionals and its applications] *Leningradskiĭ Èlektrotehn. Inst., Leningrad*, 1963. 182 pp. (R. P. Boas, Jr.) 36 #331
Odd polynomials of least deviation. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 715-718. (Bl. Sendov) 31 #1507
Some criteria for the stability of functionals. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 270-273. (H. A. Lauwerier) 31 #2544
Amorphous functionals, their structure and applications. *Dokl. Akad. Nauk SSSR* 166 (1966), 1270-1273 *(Russian); translated as Soviet Math. Dokl.* 7 (1966), 258-262. (E. V. Cheney) 35 #5841
On Zolotarev stability of functionals. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 15-17. (H. A. Lauwerier) 35 #4646
The construction of extremal trigonometric polynomials of mixed type. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 768-771. (S. Verbluncky) 37 #3267
Structural properties of certain determining functionals. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 1271-1274. (J. Albrycht) 38 #284
The method of functionals and its applications. *Approximation Theory (Proc. Sympos., Lancaster, 1969)*, pp. 49-58. *Academic Press, London*, 1970. (R. P. Boas, Jr.) 42 #1959
The method of functionals as applied to problems of Zolotarev-Pševorskiĭ type. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 20-23. (J. Albrycht) 42 #6476
* The functional method and its applications. With an appendix by V. A. Gusev. Translated from the Russian by R. P. Boas. Translations of Mathematical Monographs, Vol. 28. *American Mathematical Society, Providence, R. I.*, 1970. vi + 203 pp. (Editors) 42 #1958
The structure of extremal polynomials with a common subdistribution. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 253-256. (J. Albrycht) 42 #6169
(with Jarv, E. A.) Limit properties of critical intervals. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 21-24. (S. Aljančić) 43 #3707

Vorontsova, I. P. See Voroncova, I. P.

Vorovič, I. I.
(with Aksentjan, O. K.) The state of stress in a thin plate. *Prikl. Mat. Meh.* 27 (1963), 1057-1074 *(Russian); translated as J. Appl. Math. Mech.* 27 (1964), 1621-1643. (E. L. Reiss) 30 #4422
(with Aleksandrov, V. M.) Contact problems for the elastic layer of small thickness. *Prikl. Mat. Meh.* 28 (1964), 350-351 *(Russian); translated as J. Appl. Math. Mech.* 28 (1964), 425-427. (W. D. Collins) 31 #4238
General representations of solutions of the equations in the theory of multilayer anisotropic shells. *Prikl. Mat. Meh.* 29 (1965), 690-700 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 820-831 (1966). (S. Drobot) 34 #7093
(with Zipalova, V. F.) On the solution of nonlinear boundary value problems of the theory of elasticity by a method of transformation to an **initial** value Cauchy problem. *Prikl. Mat. Meh.* 29 (1965), 894-901 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 1055-1063 (1966). (W. E. Boyce) 40 #1067
(See also Pogorelov, A. V., 34 #3843)
(with Koval'čuk, V. E.) On the basic properties of a system of homogeneous solutions. *Prikl. Mat. Meh.* 31 (1967), 861-869 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 869-876 (1968). (Authors' introduction) 37 #1815
(with Kosuškin, G. A.) On the solvability of general problems for an elastic closed cylindrical shell in a nonlinear formulation. *Prikl. Mat. Meh.* 33 (1969), 74-84 *(Russian); translated as J. Appl. Math. Mech.* 33 (1969), 64-76. (R. J. Knops) 41 #1273

Uniqueness of the solution of boundary value problems of nonlinear shell theory, and a problem of shell rigidity. (Russian) *Thbilis. Saḫelmç. Univ. Gamoqeneb. Math. Inst. Šrom* 2 (1969), 49-55. (B. A. Bondarenko) 43 #7116

Vorovich, I. I. See Vorovič, I. I.

Vortisch, Wilhelm

(with Walden, Rainer) Ein Kongruenzsatz für Eiflächen. (English summary) *Manuscripta Math.* 3 (1970), 315-319. (O. Giering) 43 #3975

de Vos, J. A.

The internal symmetries of elementary particles. *Nuclear Phys.* 59 (1964), 65-80. (F. R. Halpern) 31 #1988

Vos, J. W. E.

Sampling in space and time. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 226-241. (M. Atiqullah) 30 #5454

Extrapolation of time series. (Dutch. English summary) *Statistica Neerlandica* 19 (1965), 277-288. (H. Kesten) 33 #6712

Vosburg, A. C.

Metric entropy of certain classes of Lipschitz functions. *Proc. Amer. Math. Soc.* 17 (1966), 665-669. (G. F. Clements) 33 #1840

On the relationship between Hausdorff dimension and metric dimension. *Pacific J. Math.* 23 (1967), 183-187. (R. F. Dickman, Jr.) 36 #865

Vosiljus, R. See Vosylius, R.

Voskoboev, V. F.

(with Barzilovič, E. Ju.) Markovian problems in the maintenance of aging systems (a survey). *Avtomat. i Telemeh.* 1967, *no.* 12, 88-102 *(Russian. English summary); translated as Automat. Remote Control* 1967, *no.* 12, 1890-1904 (1968). (Authors' summary) 38 #4188

Voskoboĭnikov, G. M.

Intebral transformations and the location of the singularities of a logarithmic potential. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1965, 76-89 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1965, 42-48. (A. Ben-Menahem) 34 #5503

Voskresenskiĭ, G. P.

* (with Babenko, K. I.; Ljubimov, A. N.; Rusanov, V. V.) Пространственное обтекание гладких тел идеальным газом. (Russian) [Spatial flow of an ideal gas around smooth bodies] *Izdat. "Nauka", Moscow,* 1964. 505 *pp.* (M. D. Friedman) 32 #8638

* (with Babenko, K. I.; Ljubimov, A. N.; Rusanov, V. V.) Three-dimensional flow of ideal gases around smooth bodies. Translated from the Russian by I. Shechtman. Edited by I. Meroz. *Israel Program for Scientific Translations, Jerusalem; Daniel Davey & Co., Inc., Hartford, Conn.,* 1968. iii + 507 *pp.* 37 #6067

Voskresenskiĭ, G. V.

(with Bolotovskiĭ, B. M.) Radiation of a point charged particle moving along the axis of a semiinfinite circular waveguide. *Ž. Tehn. Fiz.* 34 (1964), 711-717 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1964), 546-550. (E. Meister) 32 #5026

(with Bolotovskiĭ, B. M.) Radiation from a line source passing near a diffraction grating formed by a set of perfectly conducting half-planes. *Ž. Tehn. Fiz.* 34 (1964), 1856-1862 *(Russian); translated as Soviet Physics Tech. Phys.* 9 (1965), 1432-1436. (M. Kline) 32 #5027

(with Serebrjakov, Ju. N.; Avdeev, E. V.) The use of "convolution type" orthogonality in solving certain boundary value problems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 721-724. (G. F. Miller) 40 #6798

Voskresenskiĭ, V. E.

Sheaves of local units of algebraic groups. (Russian) *Certain Problems in the Theory of Fields (Russian), pp.* 16-31. *Izdat. Saratov. Univ., Saratov,* 1964. (R. E. Peinado) 36 #1454

The behaviour of semi-simple algebraic groups under extension of the ground field. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 767-769. (E. C. Dade) 29 #4763

On decomposition of the genus into classes in uniform spaces. (Russian) *Volz. Mat. Sb. Vyp.* 2 (1964), 21-25. (H. G. Zimmer) 34 #1330

On two-dimensional algebraic tori. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 239-244. (E. C. Dade) 30 #3097

On two-dimensional algebraic tori. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 711-716. (Andrzej Białynicki-Birula) 35 #5446

The arithmetic of Σ-varieties. (Russian) *Studies in Number Theory, No.* 2 *(Russian), pp.* 50-59. *Izdat. Saratov. Univ., Saratov,* 1968. (J. W. S. Cassels) 38 #4480

Picard groups of linear algebraic groups. (Russian) *Studies in Number Theory, No.* 3 *(Russian), pp.* 7-16. *Izdat. Saratov. Univ., Saratov,* 1969. (J.-E. Bertin) 42 #5999

The birational equivalence of linear algebraic groups. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 978-981; *erratum, ibid.* 191 (1970), *nos.* 1, 2, 3, vii. (J.-E. Bertin) 40 #5623; errata, 41 p. 1965

Birational properties of linear algebraic groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 3-19. (Andrzej Białynicki-Birula) 41 #6861

On the question of the structure of the subfield of invariants of a cyclic group of automorphisms of the field $Q(x_1, \dots, x_n)$. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 366-375. (S. P. Bandyopadhyay) 43 #192

Rationality of certain algebraic tori. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 1037-1046. (Peter Brückmann) 44 #4007

Vosmanský, Jarmoír

The monotonicity of extremants of integrals of the differential equation $y'' + q(t)y = 0$. *Arch. Math. (Brno)* 2 (1966), 105-111. (H. C. Howard) 35 #6907

Voss, Heinz-Jürgen

Über die Taillenweite in Graphen, die maximal k unabhängige Kreise enthalten, und über die Anzahl der Knotenpunkte, die alle Kreise repräsentieren. *Mathematische Probleme der Ökonomie und Rechentechnik (X. Internat. Wiss. Kolloq., Heft* 11, *Ilmenau,* 1965*), pp.* 23-27. *Tech. Hochschule Ilmenau, Ilmenau,* 1966. (F. Harary) 36 #80

Some properties of graphs containing k independent circuits. *Theory of Graphs (Proc. Colloq., Tihany,* 1966*), pp.* 321-334. *Academic Press, New York,* 1968. (H. Sachs) 39 #2659

(See also Beiträge zur Graphentheorie, 39 #2645; and Sachs, Horst, 43 #4712)

Über die Anzahl von Knotenpunkten, die in einem Graphen, der keine drei unabhängigen Kreise enthält, alle Kreise repräsentieren. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 413-418. (P. Ungar) 39 #5408

Eigenschaften von Graphen, die k aber Keine $k + 1$ kantenfremde Kreise enthalten. *Beiträge zur Graphentheorie (Kolloquium, Manebach,* 1967*), pp.* 169-184. *Teubner, Leipzig,* 1968. (W. T. Tutte) 39 #5407

Eigenschaften von Graphen, die keine $k + 1$ knotenfremde Kreise enthalten. *Math. Nachr.* 40 (1969), 19-25. (András Hajnal) 44 #1609

Eigenschaften von Graphen, die eine bestimmte Anzahl kantenfremder Kreise enthalter. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 129-137. (E. M. Palmer) 42 #2978

Voss, Klaus

Statistische Theorie komplexer Systeme. I. Allgemeine Probleme der Struktur komplexer Systeme. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 239-253. (R. Kubo) 42 #1469

Statistische Theorie komplexer Systeme. II. Häufigkeitsverteilung von Untersystemen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 319-329. (R. Kubo) 42 #7411

Voss, Konrad

(with Macke, W.; Rennert, P.; Rieger, F.) Hydrostatisches Gleichgewicht einer rotierenden Flüssigkeit. *Ann. Physik* (7) 13 (1964), 274-283. (J. R. Pounder) 33 #3756

Vostrecov, B. A.

The structure of analytic solutions of a class of systems of linear partial differential equations with constant coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1259-1262. (R. N. Goss) 31 #1441

(with Ignat'eva, A. V.) The existence in the L_p metric of the best approximation of functions by sums of a finite number of plane waves of given directions. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1225-1228. (Bl. Sendov) 37 #4478

Vostrov, V. K.

(with Imanaliev, M. I.; Džuraev, M. D.) An application of Newton's method to the solution of a certain class of inverse problems for parabolic type equations. (Russian) *Izv. Akad. Nauk Kirgiz. SSR* 1968, *no.* 4, 3-10. (B. Kellogg) 38 #3598

(with Imanaliev, M.) Prediction problems in the theory of linear differential equations. (Russian) *Studies in Integro-Differential Equations in Kirghizia, No.* 6 *(Russian), pp.* 35-44. *Izdat. "Ilim", Frunze,* 1969. (J. Švejda) 43 #8210

The discrete analogue of the Volterra-Rabotnov principle. (Russian) *Mechanical Processes in a Mountain Massif (Russian) pp.* 25-32. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (P. P. Teodorescu) 44 #2402

Vostrova, L. E.

The **mixed** boundary value problem for the general equation of Lavrent'ev-Bicadze. (Russian) *Kuĭbyšev. Gos. Ped. Inst. Učen. Zap. Vyp.* 29 (1959), 45-66. (S. P. Pul'kin (RŽMat 1961 #3 B239)) 33 #4489

Continuity of the solution of the problem T_3 for the equation $U_{xx} + \operatorname{sgn} y \, U_{yy} - U = 0$. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 53-59. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (G. Biriuk) 33 #1604 (with Pul'kin, S. P.) A singular problem with a normal derivative. (Russian) *Volž. Mat. Sb. Vyp.* 5 (1966), 49-57. (O. Gürel) 36 #2987

Continuous dependence of the solution of problem T_4 on the boundary conditions. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 33-41. (S. A. Tersenov) 43 #7786

(with Pul'kin, S. P.) A space problem with normal derivative for a Lavrent'ev type equation. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 42-51. (S. A. Tersenov) 43 #7787

The spatial problem T_3. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 14-16. (V. Ďurikovič) 43 #5175

A mixed boundary value problem for the equation $U_{xx} + U_{yy} + (p/x)U_x = 0$. (Russian) *Volž. Mat. Sb. Vyp.* 7 (1969), 17-20. (M. I. Imanaliev) 43 #3663

Vostrova, Z. I.

Optimal processes in sampled-data systems containing objects with distributed parameters. *Avtomat. i Telemeh.* 1966, *no.* 5, 37-49 *(Russian. English summary); translated as Automat. Remote Control* 27 (1967), *no.* 5, 767-779. (Author's summary) 34 #5561

Vosylius, R.

On the theory of invariant affine connections on a Lie group. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 7 (1967), 29-34. (A. Goetz) 36 #2083

A certain class of invariant affine connections on Lie groups. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 8 (1968), 699-726. (A. Kawaguchi) 40 #6439

On the geometry of homogeneous spaces. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 9 (1969), 43-55. (I. Kolář) 40 #6440

Connections on Lie groups. (Russian. Lithuanian and German summaries) *Litovsk. Mat. Sb.* 10 (1970), 705-725. (K. Radziszewski) 44 #2892

Votjakov, A. A.

An algorithm for solving a generalized integer linear programming problem. (Russian) *Math. Methods in Certain Optimal Planning Problems (Russian), pp.* 73-82. *Ural'sk. Filial Akad. Nauk SSSR, Sverdlovsk,* 1967. (E. M. Fels) 39 #5145

Certain questions of integer programming. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 611-621. (Ju. Finkel'šteĭn (RŽMat 1969 #3 V324)) 43 #1631

Votruba, J.

(with Havlíček, M.) On the physical representations of an infinite-dimensional Lie algebra. *Czechoslovak J. Phys. Sect. B* 16 (1966), 631-642. (R. Mirman) 34 #5443

(with Havlíček, M.) On the representation of infinite-dimensional Lie algebra $A(P, S)$. *High Energy Phys. Theory Elem. Particles (Internat. School Theoret. Phys., Yalta, 1966) (Russian), pp.* 330-335. *"Naukova Dumka", Kiev,* 1967. (R. Mirman) 37 #1134

(with Havlíček, M.) The tensor product of one-particle representations of an infinite-dimensional Lie algebra. *Czechoslovak J. Phys. Sect. B.* 17 (1967), 809-821. (Authors' summary) 36 #1154

Vought, Eldon Jon

(with Jones, F. Burton) Stronger forms of aposyndetic continua. *Topology Conference (Arizona State Univ., Tempe, Ariz., 1967), pp.* 170-173. *Arizona State Univ., Tempe, Ariz.,* 1968. (A. Lelek) 39 #925

A characterization of hereditarily indecomposable continua. *Amer. Math. Monthly* 75 (1968), 502-503. (R. H. Rosen) 39 #926

A classification scheme and characterization of certain curves. *Colloq. Math.* 20 (1969), 91-98. (G. T. Whyburn) 38 #6550

Concerning continua not separated by any nonaposyndetic subcontinuum. *Pacific J. Math.* 31 (1969), 257-262. (F. Burton Jones) 41 #2633

n-aposyndetic continua and cutting theorems. *Trans. Amer. Math. Soc.* 140 (1969), 127-135. (M.-E. Hamstrom) 39 #3462

Voutier, André

(with Klein, Joseph) Formes extérieures génératrices de sprays. *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 1, 241-260. (F. Brickell) 40 #863

Vovčenko, P. S.

Computation of the natural width of a spectral line of an auto-oscillating system. (Russian) *Trudy Moskov. Orden. Lenin. Ènerget. Inst. Vyp.* 65 (1969), 144-151. (V. Polák) 43 #8416

Vovkodav, Ī. P.

Integral representation of the generalized hypergeometric function of the second kind. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 1379-1382. (Author's summary) 34 #1571

Logarithmic solutions of a hypergeometric differential equation of higher order. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 4, 114-119. (K. Karpov (RŽMat 1968 #6 B257)) 39 #1722

(with Kovalenko, A. D.) Functional relations for logarithmi generalized hypergeometric functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 291-294, 368. (J. Ławrynowicz) 42 #4787

(with Ulītko, A. T.) A generalization of the Weyl-Lebedev-Skal'skaja integral transform. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 199-202, 283. (V. Komkov) 42 #8193

Vovsi, S. M.

Infinite wreath products of groups. (Russian. Latvian and English summaries) *Latvian Mathematical Yearbook, 7 (Russian), pp.* 35-46. *Izdat. "Zinatne", Riga,* 1970. (M. Greendlinger) 43 #4925

Vowden, B. J.

On the Gelfand-Neumark theorem. *J. London Math. Soc.* 42 (1967), 725-731. (L. Longdon) 36 #702

A new proof in the spatial theory of von Neumann algebras. *J. London Math. Soc.* 44 (1969), 429-432. (B. Russo) 39 #792

Vowels, R. E.

A note on positive real functions. *IEEE Trans. Circuit Theory* CT-18 (1971), 383-386. (R. Vermes) 43 #3429

Voxman, William L.

Nondegenerately continuous decompositions of 3-manifolds. *Fund. Math.* 68 (1970), 307-320. (R. B. Sher) 42 #8466

On the shrinkability of decompositions of 3-manifolds. *Trans. Amer. Math. Soc.* 150 (1970), 27-39. (K. W. Kwun) 41 #619

On the union of certain cellular decompositions of 3-manifolds. *Illinois J. Math.* 15 (1971), 387-392. (R. B. Sher) 43 #6898

(with Cobb, John) Some fixed point results for *UV* decompositions of compact metric spaces. *Proc. Amer. Math. Soc.* 33 (1972), 156-160. (B. J. Ball) 44 #7524

Voytsenkhovs'kyy, V. B. See Voĭcehovs'kiĭ, V. B.

Voytuk, J. A.

(with MacCamy, R. C.) Mixed boundary-value problems in the plane. *Proc. Amer. Math. Soc.* 16 (1965), 276-280. (F. Erdogan) 30 #3315

Vozlinskiĭ, V. I.

On the relations between the bifurcation of the equilibria of conservative systems and the stability distribution on the equilibria curve. *Prikl. Mat. Meh.* 31 (1967), 384-392 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 418-427. (A. Strauss) 40 #6000

Vozniĭ, A. M.

(with Senik, P. M.) The tabulation of the periodic Ateb-functions. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 1089-1092, 1150. (Authors' summary) 42 #3312

Voznjuk, A. V.

(with Kolomīec', V. G.) An application of the asymptotic methods of nonlinear mechanics to the investigation of single-frequency vibrations of rods of variable cross-section in the case of random perturbations. (Russian) *Mathematical Physics, No.* 6 (1969) *(Russian), pp.* 66-73. *Naukova Dumka, Kiev,* 1969. (J. M. Skowroński) 41 #7256

Voznjuk, L. L.

The influence of a small parameter in the highest derivative on the solution of a system. (Ukrainian. Russian summary) *Zbirnik Prac' z Občis. Mat. i Tehn.* 3 (1961), 65-69. (R. C. Gilbert) 32 #6006

V. Plehwe, A. See v. Plehwe, A.

Vrabec, Jože

Partially ordered algebraic structures. (Slovenian) *Obzornik Mat. Fiz.* 12 (1965), 15-31. (S. Mardešić) 34 #4171

Extension of the field of real numbers. (Slovenian) *Obzornik Mat. Fiz.* 13 (1966), 11-20. (I. Danicic) 34 #4297

(with Suhadolc, A.) A generalization of Fourier and Laplace integrals. (Slovenian) *Obzornik Mat. Fiz.* 14 (1967), 104-106. (Editors) 38 #4914

(with Suhadolc, A.) Eine Erweiterung der Fourier- und Laplace-Transformation. *Math. Z.* 103 (1968), 55-60. (P. G. Rooney) 36 #5610

(with Suhadolc, A.) The numerical solution of Fredholm integral equations of the first kind. (Slovenian) *Obzornik Mat. Fiz.* 15 (1968), 106-115. (Editors) 42 #1367

A note on projective sheaves of modules. *Proc. Internat. Sympos. on Topology and its Applications (Herceg-Novi, 1968), pp.* 326-330. *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (G. E. Bredon) 42 #8480

(with Suhadolc, A.) Eine Erweiterung der Fourier- und Laplace-Transformation. II. *J. Reine Angew. Math.* 237 (1969), 97-108. (P. G. Rooney) 40 #7717

Adjoining a unit to a biregular ring. *Math. Ann.* 188 (1970), 219-226. (S. Warner) 43 #284

Vrabie, I. A.

On the isotopy-isomorphism problem for Moufang loops. (Russian) *Studies in General Algebra, No.* 1 *(Russian), pp.* 42-44. *Kišinev. Gos. Univ., Kishinev,* 1968. (M. Hosszú) 42 #3213

Vraciu, Constantin

(with Georgescu, George) Le spectre maximal d'une algèbre de Lukasiewicz. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A928-A929. (Robert K. Meyer) 42 #45

(with Georgescu, George) Sur les épimorphismes centrés d'algèbres de Lukasiewicz. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A4-A6. (Robert K. Meyer) 42 #7488

(with Georgescu, George) Les algèbres de Lukasiewicz centrées. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A998-A1000. (H. Gonshor) 39 #2684

(with Georgescu, George) Sur le spectre maximal d'une algèbre de Lukasiewicz. *Publ. Dép. Math. (Lyon)* 6 (1969), *fasc.* 1, 1-12. (M. Kolibiar) 41 #5263

(with Georgescu, George) r-valent centered Lukasiewicz algebras. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 793-802. (O. A. Laudal) 42 #3004

(with Georgescu, George) On the characterization of centered Lukasiewicz algebras. *J. Algebra* 16 (1970), 486-495. (J. Drabbe) 42 #7490

(with Georgescu, George) On a Gleason's theorem. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 371-374. (P. S. Schnare) 44 #3275

Vragov, V. N.

The smoothness of weak solutions for a certain elliptic equation that degenerates on the boundary. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 514-516. (S. A. Tersenov) 41 #5766

The smoothness of solutions of the first boundary value problem for a degenerate elliptic equation. (Russian) *Differencial'nye Uravnenija* 6 (1970), 209-212. (R. Beals) 41 #5773

The first boundary value problem for certain strongly elliptic systems of equations that degenerate on the boundary. (Russian) *Differencial'nye Uravnenija* 7 (1971), 15-24. (R. Beals) 44 #615

Vrănceanu, Georges-Georges

About the motion group of a third species correspondence between projective planes whose characteristics are not parallel to a fixed direction. *Rev. Math. Pures Appl. (Bucarest)* 7 (1962), 675-682. (E. Bompiani) 33 #4821

Geometric interpretation in the theory of Markov processes. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 15-43. (A. Sklar) 35 #4987

Théorie géométrique des chaînes probabilistiques. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 1158-1167. (R. Theodorescu) 34 #3664

Sur les groupes de mouvement d'une correspondance d'espèce trois entre les plans projectifs. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 843-854. (E. T. Davies) 34 #745

Groupes discrets des correspondances ponctuelles d'espèce trois des plans projectifs. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1301-1315. (P. Scherk) 34 #5007

Processi Markov associati ad una curva piana. *Boll. Un. Mat. Ital.* (4) 1 (1968), 227-231. (H. W. Guggenheimer) 37 #2318

Processus de Markov associés à certains groupes de Lie. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1195-1200. (R. G. Laha) 39 #2217

The group of motions of the space of octaves. (Romanian. French summary) *Stud. Cerc. Mat.* 20 (1968), 1277-1284. *Stud. Cerc. Mat.* 20 (1968), 1277-1284. (Author's summary) 42 #8413

* Interprétation géométrique des processus probabilistiques continus. Mémorial des Sciences Mathématiques, Fasc. CLXVII. *Gauthier-Villars, Paris,* 1969. iii + 74 *pp.* (R. Theodorescu) 39 #4895

La classification des structures des groupes continus G_4 intégrables. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 877-883. (H. Scheerer) 41 #6240

Processus de Markov et espaces de Riemann. *Boll. Un. Mat. Ital.* (4) 3 (1970), 406-408. (R. Theodorescu) 42 #2522

Vrănceanu, Gheorghe

* Lectii de geometrie diferenţială. [Lectures on differential geometry] Vol. III. *Editura Academiei Republicii Populare Romîne, Bucharest,* 1960. 453 *pp.* (A. Švec) 30 #511

Réduction à la forme canonique d'une forme quadratique par des transformations hyperboliques. (Romanian. Russian and French summaries) *An. Univ. C. I. Parhon Ser. Sti. Nat. Mat.-Fiz. No.* 25 (1960), 93-104. (Author's summary) 30 #3889

Sur la décomposabilité et les groupes d'holonomie des espaces A_n. *Publ. Math. Debrecen* 7 (1960), 150-157. (L. A. Santaló (Zbl 101, 144)) 29 #1598

Sur les nombres de Betti. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine (N.S.)* 6(54) (1962), 261-267 (1964). (A. Evyatar) 32 #4688

Congruenze pseudo-ortogonali e teoria della relatività. *Confer. Sem. Mat. Univ. Bari No.* 84 (1962), 15 *pp.* (A. Švec) 32 #4640

Proprietà globali di certi spazi a connessione affine. *Univ. e Politec. Torino Rend. Sem. Mat.* 22 (1962/63), 5-15 (1964). (R. L. Bishop) 29 #2743

Global properties of Riemannian spaces with constant affine connection. (Romanian. Russian and English summaries) *Acad. R. P. Romîne Stud. Cerc. Mat.* 14 (1963), 7-22. (From the author's summary) 31 #6192

Diophantine vectors and tensors. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Stud. Cerc. Mat.* 14 (1963), 323-331. (Author's summary) 31 #6176

Discrete groups of affine space. (Romanian. Russian and French summaries) *Acad. R. P. Romîne Stud. Cerc. Mat.* 14 (1963), 513-518. (L. M. Blumenthal) 32 #384

Reduction to the canonical form of a quadratic non-holonomic surface by linear transformations. (Romanian. Russian and French summaries) *An. Univ. Bucureşti Ser. Şti. Natur. Mat.-Fiz.* 12 (1963), *no.* 39, 9-13. (R. J. Crittenden) 30 #3417

On the isometric correspondence of two Riemannian spaces of category n-1. (Chinese) *Shuxue Jinzhan* 6 (1963), 339-340. (A. Nijenhuis) 32 #6367b

* Leçons de géométrie differentielle. Vol. III: Propriétés globales des groupes de Lie. Théorie des correspondances. Espaces homogènes. Nombres de Betti. Groupes d'holonomie. *Editions de l'Académie de la Republique Populaire Roumaine, Bucharest; Gauthier-Villars Editeur-Imprimeur-Libraire, Paris,* 1964. 482 *pp.* (K. Nomizu) 31 #1615

Global properties of spaces with affine connection, and discrete groups. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*) (Russian), Vol. II, pp.* 194-200. *Izdat. "Nauka", Leningrad,* 1964. (RŽMat 1966 #4 A381) 36 #3273

The measurability of Lie groups. *Ann. Polon. Math.* 15 (1964), 179-188. (L. A. Santaló) 30 #1482

Groupes discrets lineaires dans E_3. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 245-252. (E. T. Davies) 31 #3949

(with Popovici, A.) Fundamentals of the general theory of relativity. I, II. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 285-323; *ibid.* 15 (1964), 547-593. (E. Grgin) 32 #7195

On the isometric correspondence of two Riemannian spaces of category n-1. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 1207-1209. (A. Nijenhuis) 32 #6367a

Gruppi discreti e connessioni affini. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 1, *Ist. Naz. Alta Mat., pp.* 1-16. *Ediz. Cremonese, Rome,* 1965. (W. Klingenberg) 33 #668

* (with Teleman, C.) Geometria euclidiană, geometrii neeuclidiene, teoria relativităţii. (Romanian) [Euclidean geometry, noneuclidean geometry, theory of relativity] *Editura Ştiinţifică, Bucharest,* 1965. 325 *pp. (loose errata).* (H. A. Eliopoulos) 34 #6596

Affine connections invariant under discrete groups. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iasi Secţ. I a Mat. (N.S.)* 11B (1965), 363-381. (H. W. Guggenheimer) 34 #742

Sopra gli spazi proiettivi e lenticolari. *Ann. Mat. Pura Appl.* (4) 70 (1965), 235-248. (H. S. M. Coxeter) 33 #625

On a canonical form of a commutative algebra with two basis elements. (Romanian) *Gaz. Mat. Ser. A* 70 (1965), 201-203. (R. Cohn) 33 #4114

Sur quelques theorèmes de géométrie différentielle globale. *Rev. Boumaine Math. Pures Appl.* 10 (1965), 111-124. (R. L. Bishop) 32 #1645; errata, 33, p. 1600

Groupes discrets dans A_3. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 523-527. (L. Tamássy) 33 #4813

Sur les vecteurs tangents aux sphères. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 895-914. (R. L. Bishop) 34 #5103

Discrete groups in Euclidean space. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 119-129. (H. W. Guggenheimer) 33 #7421

Differentiable varieties and natural metrics in spherical and projective spaces. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 155-172. (H. W. Guggenheimer) 34 #727

Groupes discrets linéaires et espaces à connexion affine. *Comptes Rendus de la III^{e} Réunion du Groupement des Mathématiciens d'Expression Latine (Namur,* 1965*), pp.* 77-87. *Librairie Universitaire, Louvain,* 1966. (P. Drăgilă) 38 #5998

Sur les métriques relativistes à symétrie sphérique. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 10(58) (1966), 59-62 (1967). (W. B. Bonnor) 37 #2512

Sur les groupes de Lie de rang zéro. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 265-267. (H. A. Eliopoulos) 33 #5786

(with Hangan, Th.; Teleman, C.) Recherches de géométrie différentielle en Roumanie. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 1147-1156. (P. Vincensini) 35 #882

* (with Teleman, C.) Geometrie euclidiană, geometrii neeuclidiene, teoria relativităţii. (Romanian) [Euclidean geometry, non-euclidean geometries, theory of relativity]. Second edition. *Editura Tehnică, Bucarest,* 1967. 335 *pp.* (From the authors' preface) 37 #805

Varietà differenziabili e trasformazioni puntuali. *Boll. Un. Mat. Ital.* (3) 22 (1967), 350-356. (D. Gallarati) 37 #846

Varietà differenziabili e trasformazioni puntuali. II. *Boll. Un. Mat. Ital.* (3) 22 (1967), 461-468. (D. Gallarati) 37 #4737

Variétés différentiables et transformations ponctuelles. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A65-A66. (Y. Muto) 34 #6698

Immersioni delle varietà differenziabili. *Confer. Sem. Mat. Univ. Bari No.* 109 (1967), 15 *pp.* (H. W. Guggenheimer) 41 #6236

Variétés différentiables sans torsion. *Math. Scand.* 21 (1967), 190-194 (1969). (M. Durita) 39 #4785

Forme canonique des équations gravitationnelles. *Math. Nachr.* 33 (1967), 339-346. (H. Rund) 35 #6437

(with Simionescu, C.) Sur les esqaces de Riemann associés à une forme cubique. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1515-1517. (Authors' summary) 37 #1369

* Lecţii de geometrie diferenţială. Vol. IV: Grupuri discrete şi conexiuni afine invariante. Grupuri discrete ale grupurilor Lie. Curbura unor varietăţi diferenţiabile. Vectori tangenţi la sfere şi la sfere exotice. (Romanian) [Lectures on differential geometry. Vol. IV: Discrete groups and invariant affine connections. Discrete groups of Lie groups. Curvature of differentiable manifolds. Tangent vectors of spheres and exotic spheres] *Editura Academiei Republicii Socialiste România, Bucharest,* 1968. 267 *pp.* (H. W. Guggenheimer) 39 #6181

(See also Mathematical works of Gheorghe Lazăr, 40 #13; and Biography, 44 #6437)

Alcune proprietà differenziabili delle sfere esotiche. (English summary) *Rend. Sem. Mat. Fis. Milano* 38 (1968), 245-255. (W. F. Pohl) 38 #6506

Sur le plongement des variétés différentiables à courbures planes négatives. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1043-1049. (R. Behari) 38 #6507

Fonctions de Morse sur les espaces lenticulaires. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1018-A1019. (H. B. Griffiths) 41 #2710

Nombres de Betti de certains groupes intégrables. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 859-876. (H. Scheerer) 41 #6239

Equations fonctionnelles en géométrie et probabilités. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 17(21) (1971), *fasc.* 1-2, *secţ. I,* 7-12. (R. Theodorescu) 43 #6962

Variétés sphériques associées aux variétés différentiables fermées. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1635-A1637. (T. J. Willmore) 44 #7576

Fonctions de Morse et fonctions de Morse-Bott sur les espaces lenticulaires. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A308-A310. (H. B. Griffiths) 44 #7577

Vranesic, Z. G.

(with Waliuzzaman, K. M.) On decomposition of multi-valued switching functions. *Comput. J.* 13 (1970), 359-362. (C. L. Sheng) 42 #7428

Vranić, Vladimir

On an application of duality in representing correlation. (French summary) *Rev. Inst. Internat. Statist.* 32 (1964), 65-71. (R. H. Farrell) 30 #5434

On the nomographic method in nonlinear correlation. *Rad Jugoslav. Akad. Znan. Umjet.* 331 (1965), 75-85. (C. C. Craig) 33 #827

Vrba, Josef

Discrete dynamic programming and optimal strategy of process equipment renovation. (Czech. English summary) *Ekonom.-Mat. Obzor* 6 (1970), 176-199. (M. Maňas) 42 #1507

A contribution to the solution of systems of linear and nonlinear equations. (Czech. English summary) *Ekonom.-Mat. Obzor* 7 (1971), 12-30. (J. Abrham) 44 #1213

Vrba, Kamil

(with Kouřil, František) Non-linear and parametric networks. I. Signals and models. (Czech and Russian summaries) *Sb. Vysoké. Učení Tech. Brno* 1969, 433-441. (P. R. Bryant) 43 #4570

Vrcelj, Zoran

A generalization of the concept of space derivatives. (Serbo-Croatian. English summary) *Mat. Vesnik* 5(20) (1968), 150-158. (Author's summary) 38 #3789

Vrejoiu, C.

(with Eftimiu, C.) Axiomatic quantum electrodynamics. I. $(\gamma e)\to(\gamma e)$ scattering in e^2 approximation. (Romanian. Russian and English summaries) *Com. Acad. R. P. Romîne* 13 (1963), 595-600. (Authors' summary) 30 #5705

(with Eftimiu, C.) Axiomatic quantum electrodynamics. II. $(e\bar{e})\to(e\bar{e})$ scattering in e^2 approximation. (Romanian. Russian and English summaries) *Com. Acad. R. P. Romîne* 13 (1963), 601-604. (Authors' summary) 30 #5706

Vrěncanu, G. See Vrănceanu, Gheorghe.

de Vries, E.

(with van Zanten, A. J.) The Dirac matrix group and Fierz transformations. *Comm. Math. Phys.* 17 (1970), 322-342. (D. Lurié) 42 #5534

(with van Zanten, A. J.) An application of the duality between representations and classes. *Physica* 49 (1970), 532-535. (K. Kumar) 44 #5389

(with van Zanten, A. J.) On the number of roots of certain equations in finite simply reducible groups. *Physica* 49 (1970), 536-548. (K. Kumar) 44 #6220

de Vries, Hans Ludwig

(with Kovács, L. G.; Neumann, B. H.) Some Sylow subgroups. *Proc. Roy. Soc. Ser. A* 260 (1961), 304-316. (D. E. Littlewood) 29 #4803

On the upper bound for the ratio of the first two membrane eigenvalues. *Z. Naturforsch.* 22a (1967), 152-153. (J. Hersch) 35 #561

(with Brosowski, B.) Über die numerische Behandlung gewisser potentialtheoretischer Probleme mit freiem Rand. *Methoden und Verfahren der Mathematischen Physik, Band 2 (Bericht über eine Tagung, Oberwolfach, 1969), pp.* 161-179. *Bibliographisches Institut, Mannheim,* 1969. (J. Frehse) 42 #2691

* (with Freudenthal, Hans) Linear Lie groups. Pure and Applied Mathematics, Vol. 35. *Academic Press, New York-London,* 1969. xxii + 547 *pp.* (W. Klingenberg) 41 #5546

Über Koeffizientenprobleme bei Eilinien und über die Heinzsche Konstante. *Math. Z.* 112 (1969), 101-106. (A. Dinghas) 40 #7949

de Vries, J.

Equivalence of almost periodic compactifications. *Compositio Math.* 22 (1970), 453-456. (J. W. Baker) 43 #2151

A note on topological linearization of locally compact transformation groups in Hilbert space. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1970, ZW-007, i + 17 *pp.* (L. N. Argabright) 44 #5412

de Vries, Ronald C.

Comment on Lawler's multilevel Boolean minimization. *Comm. ACM* 13 (1970), 265-266. (E. Maliszewski) 44 #7801

Minimal sets of distinct literals for a logically passive function. *J. Assoc. Comput. Mach.* 18 (1971), 431-443. (T. N. Bhargava) 44 #8062

Vrkoč, Ivo

Integral stability. (Russian. English summary) *Czechoslova Math. J.* 9(84) (1959), 71-129. (S. P. Hastings) 31 #6031

Stability under constantly acting perturbations. (Russian. Czech and English summaries) *Časopis Pěst. Mat.* 87 (1962), 326-358. (C. S. Coleman) 32 #1415

On some stability problems. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp.* 217-221. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (W. M. Wonham) 32 #2697

Über eine bestimmte Klasse der zufälligen Prozesse mit absorbierten Barrieren. (Czech and Russian summaries) *Časopis Pěst. Mat.* 89 (1964), 402-425. (G. Schay) 35 #2339

On certain properties of a system of linear differential equations. (Czech and Russian summaries) *Časopis Pěst. Mat.* 90 (1965), 311-322. (J. O. C. Ezeilo) 32 #5966

On homogeneous linear differential equations with random perturbations. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 199-230. (H. P. McKean, Jr.) 33 #5011

Extension of the averaging method to stochastic equations. (Russian summary) *Czechoslovak Math. J.* 16(91) (1966), 518-544. (H. P. McKean, Jr.) 34 #5149

(with Kučera, Jan) Note on stability of a control system. (Czech summary; loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 472-479, 481. (A. M. Krall) 39 #3107

The exponential stability and periodic solutions of Ito stochastic equations with small stochastic terms. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 301-314. (W. E. Boyce) 37 #4890

The weak exponential stability and periodic solutions of Ito stochastic equations with small stochastic terms. (Loose Russian summary) *Czechoslovak Math. J.* 18(93) (1968), 722-752. (W. E. Boyce) 38 #5306

The representation of Carathéodory operators. *Czechoslovak Math. J.* 19(94) (1969), 99-109. (E. Baiada) 39 #1719

The class of functions fulfilling the inequality $||f(x+z) - f(x) - f(y+z) + f(y)|| \le ||x-y||\omega(||z||)$. *Czechoslovak Math. J.* 19(94) (1969), 500-514. (R. Bonic) 40 #732

Some maximum principles for stochastic equations. *Czechoslovak Math. J.* 19(94) (1969), 569-604. (Vo-Khac Khoan) 40 #3627

A remark on nonoscillatory differential equations. *Mathematica (Cluj)* 11(34) (1969), 171-177. (M. Rama Mohana Rao) 41 #3891

(with Kučera, Jan) Note on stability of a linear homogeneous control system. *Časopis Pěst. Mat.* 95 (1970), 56-61. (P. C. Parks) 43 #3013

Remark about the relation between measurable and continuous functions. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 225-228, 300. (N. Passell) 44 #2904

Some explicit conditions for maximal local diffusions in one-dimensional case. *Czechoslovak Math. J.* 21(96) (1971), 236-256. (S. I. Rosencrans) 44 #7647 e Vroedt, C.

Metrical problems concerning continued fractions. *Compositio Math.* 16, 191-195 (1964). (W. J. Thron) 30 #3058

A short proof of a theorem of Tsuchikura. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 232-233. (A. A. Mullin) 37 #1337

(with Jager, H.) Lüroth series and their ergodic properties. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 31-42. (B. Weiss) 39 #157

rublevskaja, I. N.

(See Theory of games: Positional games, 36 #4906; and Ore, O., 39 #88)

The equivalence of strategies in a finite positional structure. (Russian) *Theory of games: Positional games (Russian), pp.* 114-131. *Izdat. "Nauka", Moscow,* 1967. (M. Iosifescu) 37 #3848

The equivalence of **mixed** strategies and behavior strategies in a countable positional structure. (Russian) *Theory of games: Positional games (Russian), pp.* 246-250. *Izdat. "Nauka", Moscow,* 1967. (M. Iosifescu) 37 #3849

A game of one attacker against several defenders. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 445-459. (J. R. Isbell) 39 #7952

Properties of the solution of the game of one attacker against several defenders. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 10 (1970), 235-251. (J. R. Isbell) 43 #2998

u, Tuan. See Vu Tuan.

uc, Liviu

Application of matrix functions to the integration of systems of equations with finite, linear and homogeneous differences. (Romanian. German and English summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 265-268. (M. Kuczma) 33 #452

(with Boroş, Emil) On systems of iterative functional equations. (Romanian. German and Russian summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 3 (1965), 363-368. (M. Kuczma) 35 #613

(with Bînzaru, T.; Oiţă, V.) Quadrature formula with nodes a and b and two other nodes, one interior and one exterior to the interval (a, b). (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 11(25) (1966), 19-24. 35 #2483

(with Reghiş, Mircea) Sur les équations fonctionnelles itératives. I. *Publ. Math. Debrecen* 13 (1966), 25-38. (B. Schweizer) 36 #3005

(with Binzaru, R.; Oiţă, V.) On a quadrature formula for the Riemann integral. (Romanian. Russian and German summaries) *Bul. Şti. Tehn. Inst. Politehn. Timişoara (N.S.)* 13(27) (1968), *fasc.* 2, 273-276. (M. L. Juncosa) 40 #6770

učković, Vladeta

Basic theorems on Turing algorithms. *Publ. Inst. Math. (Beograd) (N.S.)* 1(15) (1961), 31-65 (1962). (J. C. Shepherdson (Zbl 118, 16)) 34 #4133

On some possibilities in the foundations of recursive arithmetics of words. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 17 (1962), 145-157 (1963). (R. L. Goodstein) 29 #3371

On a class of regular sets. *Notre Dame J. Formal Logic* 5 (1964), 113-124. (J. A. Schatz) 36 #1329

The summability of Fourier series by Karamata methods. *Math. Z.* 89 (1965), 192-195. (R. Mohanty) 31 #3791

Note on a theorem of W. Sierpiński. *Notre Dame J. Formal Logic* 6 (1965), 180-182. (J. R. Büchi) 33 #3949

Recursive models for three-valued propositional calculi with classical implication. *Notre Dame J. Formal Logic* 8 (1967), 148-158. 38 #2014

A recursive model for the extended system $\mathcal{A}$ of B. Sobociński. *Notre Dame J. Formal Logic* 8 (1967), 154-158. 38 #2015

Creative and weakly creative sequences of r.e. sets. *Proc. Amer. Math. Soc.* 18 (1967), 478-483. (T. G. McLaughlin) 35 #4099

Mathematics of incompleteness and **undecidability**. *Z. Math. Logik Grundlagen Math.* 13 (1967), 123-150. (J. Cleave) 35 #5303

Almost recursive sets. *Proc. Amer. Math. Soc.* 23 (1969), 114-119. (G. E. Sacks) 41 #5217

Effective enumerability of some families of partially recursive functions connected with computable functionals. *Z. Math. Logik Grundlagen Math.* 16 (1970), 113-121. (G. Asser) 43 #1834

Recursive word-functions over infinite alphabets. *Z. Math. Logik Grundlagen Math.* 16 (1970), 123-138. (P. Young) 43 #4670

Vu Duy Chan

Étude d'une classe d'équations non linéaires de la mécanique ondulatoire. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A697-A700. (Author's summary) 37 #6092

Particule instable dans le modèle de Lee. Problème de non-hermiticité de l'hamiltonien et probléme de vecteurs propres. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A133-A136. (F. Rohrlich) 39 #2423

Particule instable dans le modèle de Lee. Problème d'existence. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A357-A360. (F. Rohrlich) 39 #2424

Vu-Huyen, Dang. See Dăngvu, Huyen.

Vuřičić, Vel'ko A. See Vujičić, Veljko A.

Vuillemin, Jules

L'orginine et le mécanisme des antinomies dans la première philosophie de Russell (1903). *Logique et Analyse (N.S.)* 7 (1964), 59-95. (A. Heyting) 31 #16

Sur les conditions qui permettent d'utiliser les matrices russelliennes des antinomies (1905) pour exprimer les théorèmes de limitations internes des formalismes. *Notre Dame J. Formal Logic* 7 (1966), 1-19. 34 #5657

Vuillemin, M.

(with Brossier, C.; Laval, G.; Pellat, R.) Critère nécessaire et suffisant de stabilité d'un plasma de faible pression. *Phys. Lett.* 12 (1964), 327-328. (C. Oberman) 32 #2143

Vuilleumier, Monique

(with Marić, V.) Sur le comportement asymptotique des solutions des équations différentielles du premier ordre. *Enseignement Math.* (2) 11 (1965), 123-125. (C. E. Langenhop) 32 #1405

* Comportement asymptotique des transformations linéaires des suites. Thèse présentée à la Faculté des Sciences de l'Université de Genève pour obtenir le grade de Docteur ès Sciences Mathématiques. Thèse No. 1392. *Imprimerie Kundig, Geneva,* 1966. 38 *pp.* (K. Endl) 35 #4635

Sur le comportement asymptotique des transformations linéaires des suites. *Math. Z.* 98 (1967), 126-139. (E. Hille) 35 #2015

Vujanović, Božidar

Synge's disturbed equations as a variational problem and their first integrals. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 51 (1965), 692-698. (C. S. Hsu) 33 #2011

A group-variational procedure for finding first integrals of dynamical systems. (French, German, and Russian summaries) *Internat. J. Non-Linear Mech.* 5 (1970), 269-278. (W. F. Ames) 43 #1478

On certain geometrical properties of motion in the presence of dissipative forces. *Tensor (N.S.)* 21 (1970), 48-50. (J. Hoschek) 40 #6823

Vujičić, Veljko A.

The motion of a dynamically changing particle in conformal space. (Serbo-Croatian. Russian summary) *Bull. Soc. Math. Phys. Serbie* 12 (1960), 77-82. (D. P. Rašković) 33 #920

La corrélation du principe de Pfaff--Bilimović avec les autres principes de mécanique. *Publ. Inst. Math. (Beograd) (N.S.)* 1(15) (1961), 15-23 (1962). (T. P. Anđelić) 32 #3318

Sur certaines questions de la mécanique analytique des systèmes non holonomes. *C. R. Acad. Sci. Paris* 259 (1964), 709-711. (From the author's summary) 29 #4242

A question on the rotation of a body with a variable mass. (Serbo-Croatian. French summary) *Mat. Vesnik* 1(16) (1964), 119-126. (N. D. Sengupta) 33 #2023

Une manière d'obtenir les équations du mouvement à partir du principe de Gauss en coordonnées généralisées. *Mat. Vesnik* 1(16) (1964), 215-220. 33 #904

The stability of the state of equilibrium of a system of dynamic points of variable mass. (Serbo-Croatian. French summary) *Mat. Vesnik* 4(19) (1967), 207-210. (D. P. Rašković) 37 #1119

On the problem of dynamical stability of elastic bodies. (Russian) *Mat. Vesnik* 5(20) (1968), 275-278. (J. Ignaczak) 39 #1161

A criterion for the stability of the equilibrium state of a system of particles. (Russian) *Publ. Inst. Math. (Beograd) (N.S.)* 8(22) (1968), 69-72. (Editors) 40 #2258

General conditions of stability of the state of equilibrium of the dynamic system of a variable mass. *Tensor (N.S.)* 19 (1968), 314-316. (D. P. Rašković) 38 #2982

Über die Stabilität der stationären Bewegungen. *Z. Angew. Math. Mech.* 48 (1968), T291-T293. (H. K. Wilson) 41 #7225

An n-dimensional coordinate space whose metric tensor depends explicitly on the time. (Russian) *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 65-68. (D. P. Rašković) 40 #3766

A general corollary of Ljapunov's direct method on stability. (Russian) *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 139-142. (Editors) 40 #2259

A contribution to the theory of the integration of the differential equations of motion of a mechanical system. (Serbo-Croatian. French summary) *Mat. Vesnik* 7(22) (1970), 389-393. (D. P. Rašković) 42 #5484

Conditions de non-existence de trajectoires de phase fermées d'un système de points matériels. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 79-86. (N. D. Sengupta) 43 #2884

The absolute integral of a tensor. (Russian) *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 199-202. (M. C. Chaki) 43 #5437

Covariant equations of disturbed motion of mechanical systems. *Tensor (N.S.)* 22 (1971), 41-47. (F. V. Pohle) 44 #2390

Vujošević, L.

(with Stojanović, Rastko D.) Couple stress in non-euclidean continua. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 71-74 (1963). (P. P. Teodorescu) 30 #2743

(with Stojanović, Rastko D.; Đurić, S.) On finite thermal deformations. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 103-108. (R. L. Fosdick) 29 #6685

(with Stojanović, R.; Đurić, S.) On the dynamics of the continuum of E. and F. Cosserat. (Serbo-Croatian. English summary) *Mat. Vesnik* 1(16) (1964), 127-139. (Authors' summary) 33 #924

Vujoshevitch, L. See Vujošević, L.

Vukadinović, S.

Separation of a mixture of three probability distributions of which the average is normal (Gaussian). (Serbo-Croatian. French summary) *Mat. Vesnik* 1(16) (1964), 307-318. (I. Kovalenko (RŽMat 1966, #5 V100)) 36 #7247

Vulf, F. See Wolfe, Philip.

Vuličević, B. D.

A certain method of matrix inversion. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 96-103. (J. Segethova) 43 #8233

(with Kublanovskaja, V. N.) On the solution of the partial eigenvalue problem for some matrices of special form. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 18 (1970), 104-115. (J. Segethova) 43 #8235

Vulich, B. Z. See Vulih, B. Z.

Vulichevich, V. D. See Vuličević, B. D.

Vulih, B. Z.

Some results in the theory of semi-ordered spaces. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad, 1961) (Russian), Vol. II, pp.* 271-274. *Izdat. "Nauka", Leningrad,* 1964. (G. Lozanovskiĭ (RŽMat 1964 #11 B452)) 36 #4317

(with Gavurin, M. K.; Lozinskiĭ, S. M.) Isidor Pavlovič Natanson. Obituary. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 1 (121), 171-175. (1 *plate*) (Editors) 30 #3002

(with Vladimirov, D. A.; Kantorovič, L. V.) Aron Grigor'evič Pinsker. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 6 (132), 169-170. (Editors) 34 #20

(with Lozanovskiĭ, G. Ja.) Metric completeness of normed and countably normed lattices. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 19, 12-15. (G. J. O. Jameson) 34 #4886

* Введение в функциональный анализ. (Russian) [Introduction to functional analysis] Second revised and augmented edition. *Izdat. "Nauka", Moscow,* 1967. 415 *pp.* (Editors) 36 #1948

The Kreĭn-Smul'jan theorem in countably normed spaces and some of its applications. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 19, 18-24. (G. J. O. Jameson) 36 #4318

* Introduction to the theory of partially ordered spaces. Translated from the Russian by Leo F. Boron, with the editorial collaboration of Adriaan C. Zaanen and Kiyoshi Iséki. *Wolters-Noordhoff Scientific Publications, Ltd., Groningen,* 1967. xv + 387 *pp.* (Editors) 37 #121

Remarks on the completion of normed linear lattices. (Russian) *Colloq. Math.* 21 (1970), 101-102. (G. J. O. Jameson) 41 #2355

(with Danilenko, I. F.) A certain method of partial ordering of a normed space. (Russian. English summary) *Vestnik Leningrad. Univ.* 25 (1970), *no.* 19, 18-22. (J. Jakubík) 43 #2466

(with Lozanovskiĭ, G. Ja.) The representation of completely linear and of regular functionals in partially ordered spaces. (Russian) *Mat. Sb. (N.S.)* 84(126) (1971), 331-352. (J. Jakubík) 43 #2467

Vulikh, B. See Vulih, B. Z.

Vulis, L. A.

* (with Kaškarov, V. P.) Теория струй вязкой жидкости. (Russian) [Theory of jets of a viscous fluid] *Izdat. "Nauka", Moscow,* 1965. 431 *pp.* (J. V. Wehausen) 33 #2057

Vul'pe, I. M.

Certain theorems on solutions of differential equations with random parameters. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 27-40. (H. Bunke) 41 #2160

Canonical expansions of random solutions of certain integro-differential equations. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 41-51. (H. Bunke) 41 #2335

Certain theorems on the asymptotic stability of solutions of systems of differential equations. (Russian) *Mat. Issled.* 4 (1969), *vyp.* 1 (11), 16-26. (C. S. Coleman) 41 #7230

deVun, E. E. See DeVun, E. E.

Vurcfeld, Václav

Multi-parameter multi-loop stepwise control, operating with complete information of the state of the system of general order, with transportation lag. (Russian and Czech summaries) *Stroje na Zpracování Informací* 10 (1964), 79-117. 31 #4665

Vussing, G. See Wussing, Hans.

Vu The Hyu

The determination of the mean value of a stable process with independent increments. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 369-372. (G. K. Eagleson) 39 #4993

Vu Tuan

On the theory of *n*th-order linear differential equations with periodic coefficients. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 728-732. (Author's summary) 29 #2479

On a theorem of the operational calculus. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 1315-1317. (A. H. Stroud) 29 #5072

On the stability of solutions of *n*th order linear differenti equations with variable coefficients. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1963, 1431-1433. (Author's summary) 29 #2480

Certain questions of the theory of *n*-th order linear differential equations with periodic coefficients. (Russian) *Mathematical Physics* (1965) *(Russian), pp.* 52-62. *Naukova Dumka, Kiev,* 1965. (M. Ráb) 33 #1530

Vvedenskaja, N. D.

(with Ventcel', T. D.) Some remarks on quasi-linear parabolic systems. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk,* 1963*), pp.* 287-291. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (S. Itô) 34 #6330

(See also Hörmander, Lars, 37 #6595)

Solution of boundary layer equations in the neighborhood of a critical point. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 924-929. (O. A. Oleĭnik) 37 #4429

Vvedenskiĭ, G. A.

(with Ionov, V. N.) On the possible forms of the general solution of the equilibrium equations in curvilinear coordinates. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 59-66. (T. P. Anđelić) 32 #6744

Vvedens'kiĭ, O. M.

Duality in elliptic curves over a local field. I. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1091-1112. (J. W. S. Cassels) 30 #1129

Duality in abelian manifolds over a local field. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 112-117. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (E. Lluis) 33 #2632

Elliptic curves with a degenerate reduction. (Ukrainian) *Vestnik L'vov. Politehn. Inst. No.* 8 (1965), 70-72. (G. Biriuk) 33 #2636

Torsion of elliptic curves over a local field. (Ukrainian. Russian summary) *Vīsnik L'vīv. Derž. Unīv. Ser. Meh.-Mat.* 1965, *vip.* 1, 3-6. (Author's summary (RŽMat 1965 #9 A239)) 36 #6417

Proalgebraic groups with reduction height two. (Ukrainian. Russian summary) *Vīsnik L'vīv. Derž. Unīv. Ser. Meh.-Mat.* 1965, *vyp.* 2, 24-29. (Author's summary) 35 #1597

Duality in elliptic curves over a local field. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 891-922. (J. W. S. Cassels) 34 #5818

Local class fields of elliptic curves. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 876-880. (J. Browkin) 40 #2646

"Local class fields" of elliptic curves. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 393-396, 472. (J. Browkin) 42 #5993

"Local class fields" of elliptic curves. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1969, 966-969, 1051. (J. Browkin) 42 #5994

The Galois cohomology of elliptic curves defined over a local field. (Russian) *Mat. Sb. (N.S.)* 83(125) (1970), 474-484. (W. Vogel) 43 #4833

Subgroups of norms in elliptic curves defined over a local field. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 531-533. (W. Vogel) 43 #219

de V. Weir, J. B.

Table of 0.1 percentage points of Behrens's *d*. *Biometrika* 53 (1966), 267-268. 33 #3391

V. Westenholz, C. See v. Westenholz, C.

Vyas, Om Dutta

(with Srivastava, H. M.) A theorem relating generalized Hankel and Whittaker transforms. *Nederl. Akad. Wetensch. Proc. Ser. A* 72 = *Indag. Math.* 31 (1969), 140-144. (R. K. Saxena) 39 #4618

Vyas, R. C.

(with Saxena, R. K.) Integrals involving products of Bessel, Whittaker and generalized hypergeometric functions. (Hindi. English summary) *Vijnana Parishad Anusandhan Patrika* 11 (1968), 103-107. (P. Anandani) 41 #2068

(with Mathur, S. N.) Integrals involving products of modified Bessel functions of the second kind. *Math. Nachr.* 40 (1969), 225-227. (K. M. Saksena) 40 #2930

Výborný, Rudolf

(with Babuška, I.) Reguläre und stabile Randpunkte für das Problem der Wärmeleitungsgleichung. *Ann. Polon. Math.* 12 (1962), 91-104. (W. Fulks) 34 #6346

On a certain extension of the maximum principle. *Differential Equations and Their Applications (Proc. Conf., Prague,* 1962*), pp.* 223-228. *Publ. House Czechoslovak Acad. Sci. Prague; Academic Press, New York,* 1963. (R. M. Redheffer) 30 #4068a

Über das erweiterte Maximumprinzip. (Russian summary) *Czechoslovak Math. J.* 14(89) (1964), 116-121. (R. M. Redheffer) 30 #4068b

(with Diaz, J. B.) A mean value theorem for strongly continuous vector valued functions. *Czechoslovak Math. J.* 14(89) (1964), 322-323. (W. P. Ziemer) 29 #3854

(with Kadlec, J.) Strong maximum principle for weakly nonlinear parabolic equations. *Comment. Math. Univ. Carolinae* 6 (1965), 19-20. (P. C. Fife) 31 #1467

(with Babuška, Ivo) Continuous dependence of eigenvalues on the domain. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 169-178. (J. R. Cannon) 32 #281

(with Diaz, Joaquin B.) A fractional mean value theorem, and a Taylor theorem, for strongly continuous vector valued functions. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 299-304. (W. P. Ziemer) 31 #1341

(with Horáček, Oldřich) Über eine fastlineare partielle Differentialgleichung vom nichthyperbolischen Typus. *Comment. Math. Univ. Carolinae* 7 (1966), 261-264. (R. F. Albrecht) 34 #6334

Vydra, M. L.

The one-to-one definiteness of certain infinite surfaces of rotation in Lobačevskiĭ space. (Russian) *Vestnik Har'kov. Gos. Univ.* 1965, *no.* 3, 26-29. 33 #3179

(with Liščinskiĭ, E. F.) Circle congruences of constant curvature. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Dnepropetrovsk, Gos. Univ., Dnepropetrovsk,* 1969. (W. Wrona) 43 #3935

Vygodskiĭ, M. Ja.

* Арифметика и алгебра в древнем мире. (Russian) [Arithmetic and algebra in antiquity] Corrected and supplemented second edition. Edited, with appendix, by B. A. Rozenfel'd. *Izdat. "Nauka", Moscow,* 1967. 367 *pp. (1 plate)* (K. Vogel) 37 #1215

Vyhnanská, Romana

(with Poliak, Pavol; Postulková, Maria) Solution of linear algebraic equations with 3-diagonal ill-conditioned system matrix. (Czech summary) *Apl. Mat.* 15 (1970), 227-234. (R. P. Tewarson) 42 #3996

Vylkovič, V. See Vâlcovici, Victor.

Vypov, G. P.

The error estimation of approximate solutions of incompressible boundary layer equations. (Russian) *Trudy Doneck. Politehn. Inst.* 49 (1961), 61-68 (1962). (R. M. Kopjatkevič (RŽMeh 1964 #3 B501)) 39 #7873

A certain generalization of the Einstein equations of a gravitational field. (Russian) *Trudy Doneck. Politehn. Inst.* 49 (1961), 69-75 (1962). (V. Kaĭgorodov (RŽMat 1964 #2 A558)) 40 #2331

Vyšín, V.

Quantisation of Dirac's spinor field without infinities of negative energy. *Phys. Lett.* 13 (1964), 217-219. (J. Mathews) 32 #838

Vyžgina, L. B. See Lobanova, L. B.

Vzorova, A. I.

(See Aleksidze, M. A., 42 #5459)

Waadeland, Haakon

On T-fractions of functions holomorphic and bounded in a circular disc. *Norske Vid. Selsk. Skr. (Trondheim)* 1964, *No.* 8, 19 *pp.* (W. J. Thron) 31 #1364

On an inequality of Bernardi. I. *Norske Vid. Selsk. Forh. (Trondheim)* 39 (1966), 27-33. (W. C. Royster) 35 #3053

On an inequality of Bernardi. II. *Norske Vid. Selsk. Forh. (Trondheim)* 39 (1966), 34-40. (W. C. Royster) 35 #3054

(with Hofmeister, G.) Eine Minimaleigenschaft des Fünfer-Systems. *Norske Vid. Selsk. Forh. (Trondheim)* 39 (1966), 66-72. (Werner G. H. Schaal) 35 #120

A convergence property of certain T-fraction expansions. *Norske Vid. Selsk. Skr. (Trondheim)* 1966, *no.* 9, 22 *pp.* (W. J. Thron) 37 #1568

On T-fractions of certain functions with a first order pole at the point of infinity. *Norske Vid. Selsk. Forh. (Trondheim)* 40 (1967), 1-6. (A. Magnus) 38 #2289

Waaijers, Leonardus Johannes Maria

* On the structure of lattice ordered groups. (Dutch summary) Doctoral dissertation, Technical University of Delft. *Technische Hogeschool te Delft, Delft,* 1968. 51 *pp.* (W. C. Holland) 38 #3200

de Waal, D. J.

An asymptotic distribution for the determinant of a non-central B statistic in multivariate analysis. *South African Statist. J.* 2 (1968), 77-84. 41 #4732

On the non-central distribution of the largest canonical correlation coefficient. *South African Statist. J.* 3 (1969), 91-93. 42 #5368

van der Waall, R. W.

On a theorem of Leopoldt and on perfect numbers. *Nieuw Arch. Wisk.* (3) 18 (1970), 159-161. (H. J. Kanold) 42 #187

de Waard, Cornelis

(See Correspondance du P. Marin Mersenne, religieux minime, 29 #4660)

Waber, J. T.

(with Snow, E. C.; Canfield, J. M.) Total energies from numerical self-consistent field calculations. *Phys. Rev.* (2) 135 (1964), A969-A973. (T. Erber) 30 #3703

Wachman, Murray

On the two point boundary value problem, with application to celestial mechanics. *J. Soc. Indust. Appl. Math.* 12 (1964), 745-771. (H. Hermes) 30 #2181

Boltzmann equation for hard spheres in differential form. *Phys. Fluids* 7 (1964), 170-173. (L. Sirovich) 33 #7059

Generalized Laurent series for singular solutions of elliptic partial differential equations. *Proc. Amer. Math. Soc.* 15 (1964), 101-108. (H. B. Jenkins) 31 #1462

A superposition principle for a system of analytic ordinary differential equations. *Quart. Appl. Math.* 22 (1964), 143-147. (W. Strodt) 31 #407

Series representation of continuous functions. *Quart. Appl. Math.* 23 (1965), 203-214. (D. Waterman) 34 #4782

Wachnicki, Eugeniusz

Certain properties of solutions of the equation $\Delta^2u(X) + C^4\Delta u(X) = 0$. (Polish. French and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* 4 (1966), 215-226. (S. Drobot) 35 #3244

Wachspress, Eugene L.

Extended application of alternating direction implicit iteration model problem theory. *J. Soc. Indust. Appl. Math.* 11 (1963), 994-1016. (R. S. Varga) 29 #6623

* Iterative solution of elliptic systems, and applications to the neutron diffusion equations of reactor physics. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1966. xiv + 299 *pp.* (S. Albertoni) 38 #2965

Solution of the generalized ADI minimax problem. *Information Processing 68 (Proc. IFIP Congress, Edinburgh, 1968), Vol. I: Mathematics, Software, pp.* 99-105. *North-Holland, Amsterdam,* 1969. (John Todd) 41 #2948

Numerical solution of neutron diffusion problems. *Numerical Solution of Field Problems in Continuum Physics (Proc. Sympos. Appl. Math., Durham, N. C., 1968), SIAM-AMS Proc., Vol. II, pp.* 175-185. *Amer. Math. Soc., Providence, R. I.,* 1970. (Roy R. Johnson) 41 #4992

A rational basis for function approximation. *J. Inst. Math. Appl.* 8 (1971), 57-68. (H. L. Loeb) 44 #7709

Wachułka, Adam

(with Barański, Feliks) Homogeneous quasi-harmonic polynomials in three independent variables. (Polish. English and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* 4 (1966), 53-60. (J. Ignaczak) 35 #3105

Sufficient conditions for the oscillatory behavior of non-trivial solutions of certain elliptic equations. (Polish. English and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* 4 (1966), 227-238. (C. Olech) 36 #2936

The mean value theorem for soltuions of the equation $L^2u(X) = 0$. (Polish. English and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* 4 (1966), 239-256. (S. Drobot) 35 #3245

Wacker, H. J.

Eine Methode zur numerischen Lösung von nichtlinearen Gleichungen Fredholmscher Art. (English and Russian summaries) *Z. Angew. Math. Mech.* 49 (1969), 691-698. (W. J. Kotzé) 40 #6799

(with Feilmeier, M.; Gessner, P.) Lineare Kontrollprobleme. (English summary) *Unternehmensforschung* 14 (1970), 263-275. (L. D. Berkovitz) 43 #3883

Wacker, Hans-Martin

Existenz- und Eindeutigkeitssätze für die erste und sweite Randwertaufgabe des Aussenraumproblems der Gleichung elastischer Schwingungen. *Bonn. Math. Schr. No.* 31 (1968), ii + 61 *pp.* (A. Dou) 39 #651

Wäckerle, Ernst

Zur Zeitmessung bei bewegten Körpern in der allgemeinen Relativitätstheorie. *Z. Physik* 179 (1964), 496-506. (P. G. Bergmann) 31 #6651

Wada, Hideo

On the class number and the unit group of certain algebraic number fields. *J. Fac. Sci. Univ. Tokyo Sect. I* 13, 201-209 (1966). (T. Kubota) 35 #5414

Wada, Junzo

On the interpolation of some function algebras. *Osaka J. Math.* 1 (1964), 153-164. (K. Gęba) 30 #4165

On P^* spaces and equicontinuity. *Proc. Japan Acad.* 42 (1966), 714-718. (E. Halfar) 35 #963

A note on multipliers of ideals in function algebras. *Proc. Japan Acad.* 42 (1966), 1134-1138. (H. S. Bear) 36 #693

(with Ishikawa, Hiroshi; Tomiyama, Jun) On the essential set of function algebras. *Proc. Japan Acad.* 44 (1968), 1000-1002. (E. L. Stout) 39 #783

(with Ishikawa, Hiroshi; Tomiyama, Jun) On the local behavior of function algebras. *Tôhoku Math. J.* (2) 22 (1970), 48-55. (E. L. Stout) 41 #4249

Wada, Morihiro

(with Konuma, Michiji; Shima, Kazuhisa) Simple Lie algebras of rank 3 and symmetries of elementary particles in the strong interaction. *Progr. Theoret. Phys. Suppl. No.* 28 (1963), 1-128. (A. C. T. Wu) 32 #894

Wada, Walter W.

(with Kawarabayashi, Ken) Renormalization effects of leptonic decay coupling constants in broken SU_3 symmetry. *Phys. Rev.* (2) 137 (1965), B1002-B1008. (R. Delbourgo) 32 #3583

(with Kawarabayashi, K.; McGlinn, W. D.) Current commutation relations and meson-meson scattering. *Phys. Rev. Lett.* 15 (1965), 897-900. (P. Tarjanne) 32 #5189

Wada, Yasushi

On the theory of nuclear reactions. *J. Phys. Soc. Japan* 19 (1964), 1518-1528. (Z. Janković) 31 #5575

Critical field and specific heat of strong coupling superconductors. *Phys. Rev.* (2) 135 (1964), A1481-A1497. (R. E. Prange) 31 #3133

Waddell, E. R.

(with Walston, D. E.) Accelerating convergence of one-step methods for the numerical solution of ordinary differential equations. *Internat. J. Comput. Math.* 2 (1968), 23-33. (K. Frankowski) 39 #7820

Waddill, Marcellus E.

(with Sacks, Louis) Another generalized Fibonacci sequence. *Fibonacci Quart.* 5 (1967), 209-222. (V. M. Bhise) 37 #145

Wade, L. I.

(with Butts, H. S.) Two criteria for Dedekind domains. Amer. Math. Monthly 73 (1966), 14-21. (H. B. Mann) 33 #2661

Wade, William R.

A uniqueness theorem for Haar and Walsh series. *Trans. Amer. Math. Soc.* 141 (1969), 187-194. (R. Liedl) 39 #4587

Summing closed U-sets for Walsh series. *Proc. Amer. Math. Soc.* 29 (1971), 123-125. (F. Liverani) 43 #5244

Wade Ulrich, John. See Ulrich, John Wade.

Wadhwa, A. D.

A theorem on Kampé de Fériet function. *Math. Education* 4 (1970), A137-A139. (C. M. Joshi) 44 #488

Expansion formulae for the Kampé de Fériet function involving Bessel function. *Defence Sci. J.* 21 (1971), 31-38. (Y. L. Luke) 44 #2956

Wadhwa, Vijay

Programming with separable fractional functionals. *J. Math. Sci.* 4 (1969), 51-60. (M. Mañas) 41 #9579

(with Sinha, S. M.) Programming with a special class of nonlinear functionals. (German summary) *Unternehmensforschung* 14 (1970), 215-219. (R. W. Cottle) 42 #2808

Wadleigh, H. Julian

Expressibility in type theory. *Notre Dame J. Formal Logic* 11 (1970), 257-288. (J. Waszkiewicz) 43 #6034

Wadsworth, D. van Z.

Improved asymptotic expansion for the error function with imaginary argument. *Math. Comp.* 18 (1964), 662-664. 29 #3677

Wadsworth, M.

(with Wragg, A.) The numerical solution of the heat conduction equation in one dimension. *Proc. Cambridge Philos. Soc.* 60 (1964), 897-907. (E. L. Albasiny) 30 #727

(with Wragg, A.) On matrix methods for the solution of partial differential equations. *Proc. Cambridge Philos. Soc.* 61 (1965), 129-132. (M. Lees) 30 #1621

Wadzinski, H. T.

The group F_4 and its generators. (Italian and Russian summaries) *Nuovo Cimento B* (10) 62 (1969), 247-257. (M. E. Mayer) 40 #6871

Waelbroeck, Lucien

} Les semi-groupes différentiables. *Deuxieme Colloq. l'Anal. Fonct., pp.* 97-103. *Centre Belge Recherches Math., Librairie Universitaire, Louvain,* 1964. (B. R. Gelbaum) 32 #1569

(with Leray, Jean) Norme formelle d'une fonction composée (préliminaire à l'étude des systèmes non linéaires, hyperboliques non stricts). *Deuxième Colloq. l'Anal. Fonct., pp.* 145-152. *Centre Belge Recherches Math., Librairie Universitaire, Louvain,* 1964. (D. Ludwig) 32 #7957

Le complété et le dual d'un espace localement convexe. *Bull. Soc. Math. Belg.* 16 (1964), 393-406. (R. G. Bartle) 31 #3842

Calcul symbolique lié à la croissance de la résolvante. (Italian and English summaries) *Rend. Sem. Mat. Fis. Milano* 34 (1964), 51-72. (B. R. Gelbaum) 30 #459

Compacité et dualité en analyse linéaire. *Publ. Dép. Math. (Lyon)* 2 (1965), *fasc.* 1, 72-92. (Author's summary) 31 #3843

About a spectral theorem. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ.,* 1965*), pp.* 310-321. *Scott-Foresman, Chicago, Ill.,* 1966. (R. A. Hirschfeld) 33 #3122

Closed ideals of Lipschitz functions. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ.,* 1965*), pp.* 322-325. *Scott-Foresman, Chicago, Ill,* 1966. (D. R. Sherbert) 33 #3132

Duality and the injective tensor product. *Math. Ann.* 163 (1966), 122-126. (H. H. Schaefer) 33 #1703

* Théorie des algèbres de Banach et des algèbres localement convexes. Deuxième édition multigraphiée, revue et corrigée par l'auteur (réimpression). Séminaire de Mathématiques Supérieures, No. 2 (Été, 1962). *Les Presses de l'Université de Montréal, Montreal, Que.,* 1967. 147 *pp.* (G. R. Allan) 41 #824

Some theorems about bounded structures. *J. Functional Analysis* 1 (1967), 392-408. (B. R. Gelbaum) 36 #3107

Differentiable mappings into *b*-spaces. *J. Functional Analysis* 1 (1967), 409-418. (B. R. Gelbaum) 36 #3124

(with Turpin, Philippe) Sur l'approximation des fonctions différentiables à valeurs dans les espaces vectoriels topologiques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A94-A97. (G. Marinescu) 38 #2597

(with Turpin, Philippe) Intégration et fonctions holomorphes dans les espaces localement pseudo-convexes. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A160-A162. (G. Marinescu) 38 #2598

(with Turpin, Philippe) Algèbres localement pseudo-convexes à inverse continu. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A194-A195. (G. Marinescu) 39 #4677

Fonctions différentiables et petite bornologie. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A220-A222. (G. Marinescu) 39 #4635

(with Tits, J.) The integration of a Lie algebra representation. *Pacific J. Math.* 26 (1968), 595-600. (R. C. Busby) 38 #5995

Differentiability of Hölder-continuous semigroups. *Proc. Amer. Math. Soc.* 21 (1969), 451-454. (S. Kantorovitz) 39 #2021

The tensor product of a locally pseudo-convex and a nuclear space. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 101-104. (K. Sundaresan) 43 #869

van der Waerden, Bartel Leendert

Invariants birationnels. *Univ. e Politec. Torino Rend. Sem. Mat.* 20 (1960/61), 87-99. (A. Evyatar) 30 #97

Zur Quantentheorie der Wellenfelder. (English summary) *Helv. Phys. Acta* 36 (1963), 945-962. (H. Ekstein) 31 #4418

* Algebra. Teil I. Sechste Auflage der modernen Algebra. Die Grundlehren der Mathematischen Wissenschaften, Band 33. *Springer-Verlag, Berlin,* 1964. **viii** + 292 *pp.* (Editors) 31 #1292

Wie der Beweis der Vermutung von Baudet gefunden wurde. *Abh. Math. Sem. Univ. Hamburg* 28 (1965), 6-15. (W. J. LeVeque) 31 #151

* Die Anfänge der Astronomie. Erwachende Wissenschaft II. *P. Noordhoff, Ltd., Groningen,* 1965. xii + 315 *pp.* (F. Krafft) 33 #1199

* Mathematische Statistik. Zweite Auflage. Die Grundlehren der mathematischen Wissenschaften in Einzeldarstellungen mit besonderer Berücksichtigung der Anwendungsgebiete, Band 87. *Springer-Verlag, Berlin-New York,* 1965. ix + 360 *pp.* (H. D. Brunk) 32 #8421

Sequentielle Qualitätskontrolle als Minimumproblem. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4 (1965), 187-202. (W. Uhlmann) 33 #849

(with Egg, K.; Rüst, H.) Die Irrtumswahrscheinlichkeit des χ^2-Testes im Grenzfall der Poissonverteilung. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 260-264 (1965). (H. D. Brunk) 32 #8423

Die Algebra seit Galois. *Jber. Deutsch. Math.-Verein.* 68 (1966), *Abt.* 1, 155-165. (Kenneth May) 34 #2414

On Clifford algebras. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *indag. Math.* 28 (1966), 78-83. (E. J. Taft) 33 #4102

* Algebra. Teil I. Siebte Auflage. Heidelberger Taschenbücher, Band 12. *Springer-Verlag, Berlin-New York,* 1966. xi + 271 *pp.* (Editors) 41 #8186

On measurements in quantum mechanics. *Z. Physik* 190 (1966), 99-109. (H. W. Lewis) 33 #991

* Statistique mathématique. Traduit de l'allemand par C. Guinchat et A. Degenne. *Dunod, Paris,* 1967. xii + 371 *pp.* (Editors) 35 #6232

Klassische und moderne Axiomatik. *Elem. Math.* 22 (1967), 1-4. (H. Levi) 42 #4357

* Algebra. Teil II. Unter Benutzung von Vorlesungen von E. Artin und E. Noether. Fünfte Auflage. Heidelberger Taschenbücher, Band 23. *Springer-Verlag, Berlin-New York,* 1967. x + 300 *pp.* (From the author's foreword to the fifth edition) 38 #1968

How the proof was found for Baudet's conjecture. (Bulgarian) *Fiz.-Mat. Spis. B"lgar. Akad. Nauk.* 10(43) (1967), 110-117. (Editors) 36 #6372

(See also Burckhardt, J. J., 42 #1634 and Studien zur Theorie der quadratischen Formen, 37 #4014)

Darstellung von Zahlen durch binäre Formen. Abriss der Ergebnisse von Gauss. *Studien zur Theorie der quadratischen Formen, pp.* 13-16. *Birkhäuser, Basel,* 1968. (Burton W. Jones) 37 #4013

* Erwachende Wissenschaft. Band 2: Die Anfänge der Astronomie. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. xii + 316 *pp. (1 plate)* (Editors) 39 #14

* Mathematical statistics. Translated from the German by Virginia Thompson and Ellen Sherman. Die Grundlehren der mathematischen Wissenschaften, Band 156. *Springer-Verlag, New York-Heidelberg,* 1969. xi + 367 *pp.* (Editors) 40 #5051

Das Minimum von $D/(f_{11}f_{22}\cdots f_{55})$ für reduzierte positive quinäre quadratische Formen. *Aequationes Math.* 2 (1969), 233-247. (H. Groemer) 40 #4203

Platon et les sciences exactes des Pythagoriciens. *Bull. Soc. Math. Belg.* 21 (1969), 115-123. (H. W. Guggenheimer) 40 #7074

The foundation of algebraic geometry. *Rend. Sem. Mat. Fis. Milano* 39 (1969), 223-231. (Editors) 42 #1824

* Das heliozentrische System in der griechischen, persischen und indischen Astronomie. Neujahrsblatt herausgegeben von der Naturforschenden Gesellschaft in Zürich, Stück 172. *Kommissionsverlag Leemann AG Zürich,* 1970. 55 *pp.* (E. B. Allen) 42 #12

Ein Satz über räumliche Fünfecke. *Elem. Math.* 25 (1970), 73-78. (B. d'Orgeval) 42 #935

* Algebra. Vol. 1. Translated by Fred Blum and John R. Schulenberger. *Frederick Ungar Publishing Co., New York,* 1970. xiv + 265 *pp.* (Editors) 41 #8187a

* Algebra. Vol. 2. Translated by John R. Schulenberger. *Frederick Ungar Publishing Co., New York,* 1970. xii + 284 *pp.* (Editors) 41 #8187b

How the proof of Baudet's conjecture was found. *Studies in Pure Mathematics (Presented to Richard Rado), pp.* 251-260. *Academic Press, London,* 1971. 42 #5764

The theory of equivalence systems of cycles on a variety. *Symposia Mathematica, Vol. V (INDAM, Rome,* 1969/70*), pp.* 255-262. *Academic Press, London,* 1971. (C. M. Williams) 44 #4001

al-Wafā' al-Buzjānī, Abū. See Abū al-Wafā' al-Buzjānī.

Wagata, Masayoshi. See Nagata, Masayoshi.

Wagener, Gisela

(with Koegst, Manfred; Thalwitzer, Karin) Zur Theorie der Schwellenwertfunktionen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 6 (1970), 163-175. (B. Reusch) 42 #7418

(The sign } indicates an entry in the supplement.)

van Wageningen, R.

Explicit polynomial expressions for finite rotation operators. *Nuclear Phys.* 60 (1964), 250-263. (D. Lurié) 31 #3119

Ambiguities in the determination of the *S*-matrix from elastic scattering experiments. *Ann. Physics* 31 (1965), 148-184. (J. L. Gammel) 31 #4381

Waggoner, Mark H.

(with Milch, Paul R.) A random walk approach to a shutdown queueing system. *SIAM J. Appl. Math.* 19 (1970), 103-115. (J. F. C. Kingman) 41 #9377

Waghmare, Yeshwant R.

(with Shakin, Carl) Foundations for Hartree-Fock calculations with singular potentials. *Phys. Rev. Lett.* 16 (1966), 403-404. (L. M. Delves) 33 #5305

Wagle, B.

Multivariate beta distribution and a test for multivariate normality. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 511-516. 39 #7741

Wagner, Ascher

A theorem on doubly transitive permutation groups. *Math. Z.* 85 (1964), 451-453. (W. Feit) 29 #4790

On finite affine line transitive planes. *Math. Z.* 87 (1965), 1-11. (H. Levi) 30 #2391

(with Livingstone, Donald) Transitivity of finite permutation groups on unordered sets. *Math. Z.* 90 (1965), 393-403. (D. E. Littlewood) 32 #4183

Normal subgroups of triply-transitive permutation groups of odd degree. *Math. Z.* 94 (1966), 219-222. (F. C. Piper) 33 #7400

On the classification of the classical groups. *Math. Z.* 97 (1967), 66-76. (G. E. Wall) 35 #264

(with Piper, F. C.) Faithful orbits of collineation groups. *Math. Z.* 107 (1968), 212-220. (P. Dembowski) 38 #5104

Collineations of finite projective spaces as permutations on the sets of dual subspaces. *Math. Z.* 111 (1969), 249-254. (D. Gallarati) 40 #3413 (E)

Involutions of projective spaces. *Math. Z.* 112 (1969), 37-51. (H. Lenz) 40 #4847

Correction to "Collineations of finite projective spaces as permutations on the sets of dual subspaces". *Math. Z.* 121 (1971), 190. (D. Gallarati) 44 #3181

Wagner, C. A.

(with Bartlett, J. H.) The restricted problem of three bodies. II. *Mat.-Fys. Skr. Danske Vid. Selsk.* 3, *no.* 1, 53 *pp.* (1965). (E. Leimanis) 32 #4901

(with Bartlett, J. H.) The stability of motion in a periodic cubic force field. *Celestial Mech.* 2 (1970/71), 228-236. (A. Deprit) 41 #8008

Wagner, C.-J.

Ein mathematisch-ökonomisches Modell zur Standortoptimierung. *Math. und Wirtschaft* 7 (1970), 83-118. (S. E. Moskowitz) 43 #4437

Wagner, Carl G.

Interpolation series for continuous functions on π-adic completions of GF (q, x). *Acta Arith.* 17 (1970/71), 389-406. (L. Narici) 44 #207

Linear operators in local fields of prime characteristic. *J. Reine Angew. Math.* 251 (1971), 153-160. (N. Sankaran) 44 #6658

Wagner, Daniel H.

Nonlinear functional versions of the Neyman-Pearson lemma. *SIAM Rev.* 11 (1969), 52-65. (P. Fortunati) 40 #1129

Wagner, Eberhard

Asymptotische Untersuchungen von Parameterintegralen mit positivem Integranden. II. *Wiss. Z. Martin-Luther=Univ. Halle-Wittenberg Math.-Natur. Reihe* 11 (1962), 553-565. (R. R. Goldberg) 29 #2586

Taubersche Sätze reeller Art für die Laplace-transformation. *Math. Nachr.* 31 (1966), 153-168. (A. E. Ingham) 33 #3003

Taubersche Sätze für die Mellin-Transformation. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 15 (1966), 617-624. (A. E. Ingham) 35 #2091

Ein reeller Tauberscher Satz für die Laplace-Transformation. *Math. Nachr.* 36 (1968), 323-331. (W. Biegert) 38 #1436

Taubersche Sätze reeller Art für Integraltransformationen mit Kernen der Form *K(st)*. *Math. Nachr.* 47 (1970), 303-317. (E. Mohr) 44 #733

Wagner, Edwin F.

On the convergence structure of Mikusiński operatore. *Studia Math.* 27 (1966), 39-48. (O. Wyler) 33 #6308

Continuity of operator functions. *Studia Math.* 28 (1966/67), 245-251. (O. Wyler) 36 #624

Wagner, Eric G.

Bounded action machines: Toward an abstract theory of computer structure. *J. Comput. System Sci.* 2 (1968), 13-75. (A. D. Booth) 43 #5764

Uniformly reflexive structures: On the nature of gödelizations and relative computability. *Trans. Amer. Math. Soc.* 144 (1969), 1-41. (H. R. Strong) 40 #2543

Uniformly reflexive structures: An axiomatic approach to computability. *Information Sci.* 1 (1968/69), 343-362. (J. A. Schatz) 41 #6688

Wagner, F.

(with Stumpf, H.; Wahl, F.) Zur Konvergenz der einzeitigen Tamm-Dancoff-Methode beim anharmonischen Oszillator. (English summary) *Z. Naturforsch.* 19a (1964), 1254-1267. (R. Haag) 30 #5722

(with Rampacher, H.; Stumpf) Grundlagen der Dynamik in der nichtlinearen Spinortheorie der Elementarteilchen. *Fortschr. Physik* 13 (1965), 385-480. (W. Güttinger) 32 #3550

(with Koppe, H.) Zur Berechnung von spezifischer Wärme und Entropie in der Quantenstatistik. *Z. Naturforsch.* 20a (1965), 1553-1556. (U. M. Titulaer) 33 #5322

Wagner, F. J.

Maximal convex filters in a locally convex space. *Pacific J. Math.* 15 (1965), 1087-1092. (A. Pietsch) 32 #4525

Wagner, Gudrun

Zur relativistischen Kontinuumsmechanik. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 13 (1964), 241-243. (E. M. Corson) 32 #9007

Wagner, H.

(with Götze, W.) On the T^3-law for the specific heat of Bose liquids. *Physica* 31 (1965), 475-492. (J. M. Luttinger) 32 #5300

Wagner, Hans

Large-amplitude free vibrations of a beam. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 887-892. (J. Miklowitz) 32 #6754

On the concept of transmissibility for randomly excited elastic structures. (German summary) *Z. Angew. Math. Phys.* 16 (1965), 327-337. (W. E. Boyce) 32 #8598

Wagner, Harvey M.

(with Veinott, Arthur F., Jr.) Computing optimal (s, S) inve tory policies. *Management Sci.* 11 (1964/65), 525-552. (M. J. Beckmann) 31 #1113

(with Shapiro, Jeremy F.) A finite renewal algorithm for the knapsack and turnpike models. *Operations Res.* 15 (1967), 319-341. (A. C. Williams) 35 #5222

(with Yuan, John S. C.) Algorithmic equivalence in linear fractional programming. *Management Sci.* 14 (1968), 301-306. (W. F. Tyndall) 39 #5142

Wagner, Herbert

Two-particle approximation for Fermion systems with pair correlation. *Z. Physik* 178 (1964), 146-158. (K. K. Gupta) 29 #4517

Wagner, Jacques

Factorisation de fonctions analytiques sur un polydisque. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A1147-A1150. (R. B. Burckel) 41 #2403

Wagner, Klaus

Einbettung von überabzählbaren, simplizialen Komplexen in euklidische Räume. *Arch. Math. (Basel)* 17 (1966), 169-171. (D. B. A. Epstein) 33 #3291

Zum Basisproblem für Graphenmengen, insbesondere für die nicht in die projektive Ebene einbettbaren Graphen. *J. Combinatorial Theory* 2 (1967), 168-185. (W. Imrich) 37 #1273

Fastplättbare Graphen. (English summary) *J. Combinatorial Theory* 3 (1967), 326-365. (W. Imrich) 36 #73

(with Löttgen, U.) Über eine einheitliche Methode in der Infinitesimalrechnung. *Math.-Phys. Semesterber.* 16 (1969), 94-116. (F. Brooks) 39 #7041

* Graphentheorie. B.I-Hochschultaschenbücher, 248/248a. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1970. 220 *pp.* (W. T. Tutte) 44 #84

Zum Basisproblem der nicht in die projektive Ebene einbettbaren Graphen. I. (English summary) *J. Combinatorial Theory* 9 (1970), 27-43. (W. Imrich) 41 #1577
}

Wagner, Lutz

Semiuklidische Flächen in pseudo-Riemannschen Räumen. *Math. Nachr.* 43 (1970), 65-121. (K. Strubecker) 41 #6126

Wagner, Max

Scattering resonances and metastable states in wave equations. *Phys. Rev.* (2) 136 (1964), B562-B570. (J. M. Cook) 31 #4382

Wagner, Neal R.
}
The space of retractions of the 2-sphere and the annulus. *Trans. Amer. Math. Soc.* 158 (1971), 319-329. (W. E. Haver) 43 #5484

Wagner, Norman

On a boundary value problem arising in stochastic diffusion p lems. *SIAM J. Appl. Math.* 17 (1969), 430-433. (H. Bunke) 40 #4558

(This sign } indicates an entry in the supplement.)

agner, Peter

(with Jasinski, H.) Numerische Behandlung von linearen Systemen unter Benutzung des Maximumprinzips von Pontrjagin. *Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg* 11 (1969), 99-103. (J. Warga) 40 #2391

(with Jasinski, Heinrich) Numerische Lösungsverfahren auf der Grundlage des Maximumprinzips von Pontrjagin für den Einsatz von Digitalrechnern. *Wiss. Z. Techn. Hochsch. Chem. Leuna-Merseburg* 12 (1970), 105-124. (I. V. Beiko) 44 #3499

agner, Richard

Die Automorphismen der isotropen Bewegungsgruppe. *Arch. Math.* 16 (1965), 241-246. (H. Freudenthal) 32 #4585

agner, S. S.

The maximum-likelihood estimate for contingency tables with zero diagonal. *J. Amer. Statist. Assoc.* 65 (1970), 1362-1383. 42 #3964

agner, Terry J.

Sequential codes and discrete memoryless channels with an erasure property. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 91-98. *Univ. Illinois, Urbana, Ill.,* 1965. (Author's summary) 39 #6661

A search technique for quasi-perfect codes. *Information and Control* 9 (1966), 94-99. 32 #9151

A coding theorem for abstract memoryless channels. *Information and Control* 12 (1968), 489-498. (B. Forte) 39 #1229

(with Wolverton, Charles T.) Asymptotically optimal discriminant functions for pattern classification. *IEEE Trans. Information Theory* IT-15 (1969), 258-265. (T. V. Avadhani) 43 #1329

(with Blaydon, Colin; kashyap, R. L.) Comments on the estimation of distribution functions. *IEEE Trans. Information Theory* IT-16 (1970), 226. 42 #8629

(with Cordaro, J. T., Jr.) Intersymbol interference on a continuous-time Gaussian channel. *IEEE Trans. Information Theory* IT-16 (1970), 422-429. (Authors' summary) 42 #7366

agner, V. V. See Vagner, V. V.

agoner, J. B.

Bundle structures on manifolds. *Proc. Cambridge Philos. Soc.* 62 (1966), 19-22. (M. W. Hirsch) 34 #2023

Smooth and piecewise linear surgery. *Bull. Amer. Math. Soc.* 73 (1967), 72-77. (M. Mahowald) 34 #5100a

Producing *PL* homeomorphisms by surgery. *Bull. Amer. Math. Soc.* 73 (1967), 78-83. (M. Mahowald) 34 #5100b

(with Benlian, René) Type d'homotopie fibré et réduction structurale des fibrés vectoriels. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A207-A209. (Joel M. Cohen) 36 #4576

On K_2 of the Laurent polynomial ring. *Amer. J. Math.* 93 (1971), 123-138. (A. V. Geramita) 43 #2053

agoner, Robert V.

Rotation and gravitational collapse. *Phys. Rev.* (2) 138 (1965), B1583-B1588. (C. Gilbert) 32 #7196

Possible mechanism for producing strong radio sources. *Phys. Rev. Lett.* 16 (1966), 249-252. (J. N. Islam) 33 #3758

agoner, Ronald L.

Cogenerator endomorphism rings. *Proc. Amer. Math. Soc.* 28 (1971), 347-351. (G. Krause) 43 #2014

agreich, Philip

(with Orlik, Peter) Isolated singularities of algebraic surfaces with C^* action. *Ann. of Math.* (2) 93 (1971), 205-228. (M. L. Laplaza) 44 #1662

Singularities of complex surfaces with solvable local fundamental group. *Topology* 11 (1971), 51-72. (J. A. Morrow) 44 #2754

agschal, Claude

(with Ciarlet, Philippe) Approximation polynômiale sur des *n*-simplexes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A665-A668. (M. Zlámal) 41 #4769

Problème de Cauchy analytique, à données méromorphes. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1719-A1722. (H. Kumano-go) 43 #6575

(with Ciarlet, P. G.) Multipoint Taylor formulas and applications to the finite element method. *Numer. Math.* 17 (1971), 84-100. (M. Zlámal) 44 #4869

agstaff, Samuel S., Jr.

On sequences of integers with no 4, or no 5 numbers in arithmetical progression. *Math. Comp.* 21 (1967), 695-699. (A. L. Whiteman) 36 #5061

ah, Thein

Circular symmetric vibrations of ring-stiffened cylindrical shells. *J. Soc. Indust. Appl. Math.* 12 (1964), 649-662. (E. L. Reiss) 30 #5571

ahabi, Kais Al. See Al-Wahabi, Kais.

Wahba, Grace

On the distribution of some statistics useful in the analysis of jointly stationary time series. *Ann. Math. Statist.* 39 (1968), 1849-1862. (D. R. Brillinger) 38 #5363

Estimation of the coefficients in a multidimensional distributed lag model. *Econometrica* 37 (1969), 398-407. (Author's summary) 40 #6719

(with Kimeldorf, George S.) A correspondence between Bayesian estimation on stochastic processes and smoothing by splines. *Ann. Math. Statist.* 41 (1970), 495-502. (I. Vajda) 40 #8206

On the regression design problem of Sacks and Ylvisaker. *Ann. Math. Statist.* 42 (1971), 1035-1053. (Lionel Weiss) 43 #5676

(with Kimeldorf, George) Some results on Tchebycheffian spline functions. *J. Math. Anal. Appl.* 33 (1971), 82-95. (L. Raymon) 44 #7198

Some tests of independence for stationary multivariate time series. *J. Roy. Statist. Soc. Ser. B* 33 (1971), 153-166. 44 #4861

Wahde, Gösta

An extremal problem related to Bernstein's approximation problem. *Math. Scand.* 15 (1964), 131-141. (O. Shisha) 32 #4436

Interpolation in non-quasi-analytic classes of infinitely differentiable functions. *Math. Scand.* 20 (1967), 19-31. (F. Rosati) 35 #5821

A closure problem for spaces of infinitely differentiable functions. *Math. Scand.* 20 (1967), 209-224. (F. Rosati) 39 #4656

Wahl, A.

Konforme Abbildung durch gebrochene rationale Funktionen. *Z. Angew. Math. Mech.* 44 (1964), 397-399. (D. Gaier) 32 #1339

Wahl, F.

(with Stumpf, H.; Wagner, F.) Zur Konvergenz der einzeitigen Tamm-Dancoff-Methode beim anharmonischen Oszillator. (English summary) *Z. Naturforsch.* 19a (1964), 1254-1267. (R. Haag) 30 #5722

von Wahl, Wolf

Klassische Lösungen nichtlinearer Wellengleichungen im Grossen. *Math. Z.* 112 (1969), 241-279. (G. Prodi) 43 #6611

Klassische Lösungen nichtlinearer gedämpfter Wellengleichungen im Großen. (English summary) *Manuscripta Math.* 3 (1970), 7-33. (A. D. Solomon) 41 #8837

Über die klassische Lösbarkeit des Cauchy-Problems für nichtlineare Wellengleichungen bei kleinen Anfangswerten und das asymptotische Verhalten der Lösungen. *Math. Z.* 114 (1970), 281-299. (W. Watzlawek) 43 #690

Ein Anfangswertproblem für hyperbolische Gleichungen mit nichtlinearem elliptischen Hauptteil. *Math. Z.* 115 (1970), 201-226. (D. B. Kotlow) 44 #5620

L^p-decay rates for homogeneous wave-equations. *Math. Z.* 120 (1971), 93-106. (W. Watzlawek) 43 #6604

Wahlin, G. E.

* (with Dickson, L. E.; Mitchell, H. H.; Vandiver, H. S.) Algebraic numbers. *Chelsea Publishing Co., New York,* 1967. ii + 211 *pp.* (Editors) 39 #2689

Wähling, Heinz

Darstellung zweiseitiger Inzidenzgruppen durch Divisionsalgebren. *Abh. Math. Sem. Univ. Hamburg* 30 (1967), 220-240. (F. Bachmann) 36 #2044

Invariante und vertauschbare Teilfastkörper. *Abh. Math. Sem. Univ. Hamburg* 33 (1969), 197-202. (F. Bachmann) 42 #1869

Wahlquist, Hugo D.

(with Estabrook, Frank B.) Dyadic analysis of space-time congruences. *J. Mathematical Phys.* 5 (1964), 1629-1644. (A. Raychaudhuri) 30 #3736

(with Estabrook, Frank B.) Rigid motions in Einstein spaces. *J. Mathematical Phys.* 7 (1966), 894-905. (A. H. Taub) 33 #5349

Waid, Carter

Generalized automorphs of the sum of four squares. *J. Number Theory* 3 (1971), 468-473. (H. S. Butts) 44 #5278

Waikar, Vasant B.

* (with Krishnaiah, P. R.) Simultaneous tests for equality of latent roots against certain alternatives. ARL 69-0119. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. iv + 26 *pp. (loose errata)* (Authors' summary) 40 #8180

* (with Krishnaiah, P. R.) Simultaneous tests for equality of latent roots against certain alternatives. II. ARL 69-0178. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1969. iv + 18 *pp. (loose supplement)* (Authors' summary) 40 #8181

* (with Krishnaiah, P. R.) Exact joint distributions of few roots of a class of random matrices. ARL 70-0345. *Aerospace Research Laboratories, Air Force Systems Command, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1970. iv + 15 *pp.* (Authors' summary) 42 #6971

(with Katti, S. K.) On a two-stage estimate of the mean. *J. Amer. Statist. Assoc.* 66 (1971), 75-81. (Authors' summary) 43 #1314

Wai-Kwok Ng, E. See Ng, E. Wai-kwok.

Wainer, S. S.

(with Löb, M. H.) Hierarchies of number-theoretic functions. I. *Arch. Math. Logik Grundlagenforsch.* 13 (1970), 39-51. (D. A. Clarke) 44 #1568a

(with Löb, M. H.) Hierarchies of number-theoretic functions. II. *Arch. Math. Logik Grundlagenforsch.* 13 (1970), 97-113. (D. A. Clarke) 44 #1568b

Wainger, Stephen

(with Askey, Richard) Mean convergence of expansions in Laguerre and Hermite series. *Amer. J. Math.* 87 (1965), 695-708. (G. M. Wing) 32 #316

(with Stein, E. M.) Analytic properties of expansions, and some variants of Parseval-Plancherel formulas. *Ark. Mat.* 5, 553-567. (1965). (M. Gasymov (RŽMat 1967 #1 B49)) 36 #602

(with Askey, Richard) On the behavior of special classes of ultraspherical expansions. I, II. *J. Analyse Math.* 15 (1965), 193-220; *ibid.* 15 (1965), 221-244. (R. Campbell) 33 #1510; errata, 33, p. 1602

Special trigonometric series in *k*-dimensions. *Mem. Amer. Math. Soc. No.* 59 (1965), 102 *pp.* (L. Berg) 32 #320; errata, 33, p. 1600

(with Askey, Richard) Integrability theorems for Fourier series. *Duke Math. J.* 33 (1966), 223-228. (J. Blackman) 33 #487

(with Askey, Richard) A transplantation theorem between ultraspherical series. *Illinois J. Math.* 10 (1966), 322-344. (R. Campbell) 35 #2069

(with Askey, Richard) A transplantation theorem for ultraspherical coefficients. *Pacific J. Math.* 16 (1966), 393-405. (Authors' summary) 36 #597

(with Stone, Charles) One-sided error estimates in renewal theory. *J. Analyse Math.* 20 (1967), 325-352. (D. L. Iglehart) 36 #987

(with Askey, Richard) A dual convolution structure for Jacobi polynomials. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill., 1967), pp.* 25-36. *Southern Illinois Univ. Press, Carbondale, Ill.*, 1968. (J. L. Fields) 38 #353

(with Askey, Richard) A convolution structure for Jacobi series. *Amer. J. Math.* 91 (1969), 463-485. (R. A. Gangolli) 41 #8728

A problem of Wiener and the failure of a principle for Fourier series with positive coefficients. *Proc. Amer. Math. Soc.* 20 (1969), 16-18. (S. Izumi) 38 #4693

(with Stein, Elias M.) The estimation of an integral arising in multiplier transformations. *Studia Math.* 35 (1970), 101-104. (S. Izumi) 42 #904

Wainstein, L. A. See Vaǐnšteǐn, L. A.

Wainwright, John

Invariance properties of spinor Lagrangians. I. *Tensor (N.S.)* 19 (1968), 217-232. (W. B. Houston, Jr.) 38 #6827

Invariance properties of spinor Lagrangian. II. *Tensor (N.S.)* 19 (1968), 265-274. (W. B. Houston, Jr.) 38 #6828

A class of algebraically special perfect fluid space-times. *Comm. Math. Phys.* 17 (1970), 42-60. (K. Yano) 42 #2779

Geometric properties of neutrino fields in curved space-time. *J. Mathematical Phys.* 12 (1971), 828-835. (R. Behari) 44 #2476

Wainwright, William L.

(with Green, A. E.; Naghdi, P. M) A general theory of a Cosserat surface. *Arch. Rational Mech. Anal.* 20 (1965), 287-308. (A. C. Pipkin) 32 #638

(with Chakrabarti, S. K.) On the formulation of constitutive equations. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 7 (1969), 601-613. (G. de La Penha) 40 #3770

Wait, James R.

(with Walters, Lillie C.) Numerical calculations for reflection of electromagnetic waves from a lossy magnetoplasma. *Nat. Bur. Standards Tech. Note No.* 205 (1963), iii + 21 *pp.* (Y. Hayashi) 30 #4475

Radiation from sources immersed in compressible plasma. media. *Canad. J. Phys.* 42 (1964), 1760-1780. (J. Van Bladel) 31 #1883

Theory of radiation from sources immersed in anisotropic media. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 119-136. (Author's summary and conclusion) 29 #4411

Theory of a slotted-sphere antenna immersed in a compressible plasma. I, II. *J. Res. Nat. Bur. Standards Sect. D* 68D (1964), 1127-1136; *ibid.* 68D (1964), 1137-1143. (P. R. Arendt) 32 #3463

On the theory of reflection of electromagnetic waves from the interface between a compressible magnetoplasma and a dielectric. *J. Res. Nat. Bur. Standards Sect. D.* 68D (1964), 1187-1191. (L. F. Oster) 30 #4474

Calculated diffraction effects at VLF from a localized ionospheric depression. *Nat. Bur. Standards Tech. Note No.* 208 (1964), iii + 12 *pp.* (Author's summary) 29 #4412

Scattering of electromagnetic and electroacoustic waves by a cylindrical object in a compressible plasma. *J. Res. Nat. Bur. Standards Sect. D* 69D (1965), 247-256. (H. Bremmer) 32 #748

Waves circulating around a rigid cylindrical obstacle in a compressible plasma. *J. Res. Nat. Bur. Standards Sect. D* 69D (1965), 567-577. (J. A. Morrison) 31 #6523

Wajnryb, Bronislaw

Projective and separable extensions of rings of continuous functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 269-271. (Ronald Brown) 39 #7602

Wakabayashi, Isao

A remark on theorem *A* for Stein spaces. *J. Math. Soc. Japan* 19 (1967), 489-492. (A. Morimoto) 36 #6651

Non-existence of holomorphic solutions of $\partial u/\partial z_1 = f$. *Proc. Japan Acad.* 44 (1968), 820-822. (O. Forster) 39 #1679

Wakae, Masami

Some results on multiplicity of solutions in frame mappings. *Math. Z.* 98 (1967), 407-421. (F. Raymond) 36 #882

(with Hamara, Oma) A mapping problem and J_p-index. I, II. *Canad. J. Math.* 22 (1970), 705-712; *ibid.* 22 (1970), 713-718. (T.-S. Wu) 42 #8483

Wakakuwa, Hidekiyo

Remarks on 4-dimensional differentiable manifolds. *Tôhoku Math. J.* (2) 16 (1964), 154-172. (J. A. Wolf) 29 #6449

On 1st Chern form and holonomy algebra of a Kähler manifold. *Tôhoku Math. J.* (2) 20 (1968), 248-253. (W. S. Piper) 37 #6888

(with Hashimoto, Shintarô) Remark on almost tangent structure. *Tensor (N.S.)* 20 (1969), 270-272. (T. J. Willmore) 40 #3460

* Holonomy groups. Publications of the Study Group of Geometry Vol. 6. *Department of Mathematics, Okayama University, Okayama*, 1971. iv + 182 *pp.* (F. Brickell) 44 #3240

Wakazuki, Hiroshi

(with Ishizaki, Yasutoshi; Watanabe, Hitoshi) Some considerations on min-max approximation problem for network design. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 786-793. *Univ. Illinois, Urbana, Ill.*, 1965. (Authors' summary) 39 #6672

Wake, G. C.

Uniqueness theorem for a system of parabolic differential equations. *J. Differential Equations* 6 (1969), 36-39. (Moshe Marcus) 39 #1809

On comparison theorems for multicomponent diffusion systems. *J. Math. Anal. Appl.* 26 (1969), 292-296. (K. Kreith) 38 #6214

Wakimoto, Kazumasa

(with Takahasi, Koiti) On unbiased estimates of the population mean based on the sample stratified by means of ordering. *Ann. Inst. Statist. Math.* 20 (1968), 1-31. (C. Hayashi) 37 #3727

(with Takahasi, Koiti) Mean estimate by ordered layer sampling. (Japanese) *Bull. Japan Statist. Soc.* 1967, 61-65 (1968). (C. Hayashi) 41 #7815

On unbiased estimation of the population variance based on the stratified random sample. *Ann. Inst. Statist. Math.* 22 (1970), 15-26. (J. Sedransk) 42 #7023 (E)

Correction to "On unbiased estimation of the population variance based on the stratified random sample". *Ann. Inst. Statist. Math.* 22 (1970), 400. (Editors) 43 #7029

Waknis, Mrudulla N.

(with Gupta, Shanti S.) A system of inequalities for the incomplete gamma function and the normal integral. *Ann. Math. Statist.* 36 (1965), 139-149. (I. Vincze) 31 #4099

Waksman, Abraham

A permutation network. *J. Assoc. Comput. Mach.* 15 (1968), 159-163; *corrigendum, ibid.* 15 (1968), 340. (Author's summary) 38 #4077

An optimum solution to the firing squad synchronization problem. *Information and Control* 9 (1966), 66-78. (Author's summary) 32 #9168

On the coding for a nonequal-duration symbol channel. *IEEE Trans. Information Theory* IT-15 (1969), 176-177. (From the author's summary) 39 #5233

Walbran, A.

(with Farrell, R. H.; Kiefer, J.) Optimum multivariate designs. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 113-138. *Univ. California Press, Berkeley, Calif.*, 1967. (H. Chernoff) 35 #5099

Walczak, Hubert R.

(with Reich, Edgar) On the behavior of quasiconformal mappings at a point. *Trans. Amer. Math. Soc.* 117 (1965), 338-351. (F. W. Gehring) 31 #345

Walczak, Janusz

(with Golecki, Józef) Displacement field and state of stress in the heavy, elastic ring supported at the point. I. (Romanian and Russian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 9(13) (1963), *no.* 3-4, 337-354. (J. L. Nowinski) 32 #3344

Wald, Abraham

Statistical decision functions. (Russian) *Theory of games: Positional games (Russian), pp.* 300-522. *Izdat. "Nauka", Moscow,* 1967. (Editors) 36 #4704

Wald, Robert M.

(with Cohen, Jeffrey M.) Point charge in the vicinity of a Schwarzschild black hole. *J. Mathematical Phys.* 12 (1971), 1845-1849. (P. G. Bergmann) 44 #6290

Waldal, Per

* Die Symmetrie am Fermat-Satz. (English summary) *H. Akerets Erben AG, Dielsdorf ZH,* 1963. 107 *pp.* (H. W. Brinkmann) 30 #3053

Walden, Rainer

(with Vortisch, Wilhelm) Ein Kongruenzsatz für Eiflächen. (English summary) *Manuscripta Math.* 3 (1970), 315-319. (O. Giering) 43 #3975

Eindeutigkeitssätze für II-isometrische Eiflächen. *Math. Z.* 120 (1971), 143-147. (C. B. Allendoerfer) 44 #2182

Walden, William E.

(with Thorp, Edward O.) A partial analysis of Go. *Comput. J.* 7 (1964), 203-207. (M. Maschler) 33 #2424

von Waldenfels, Wilhelm

Positive Halbgruppen auf einem n-dimensionalen Torus. *Arch. Math.* 15 (1964), 191-203. (K. Yosida) 29 #3876

Fast positive Operatoren. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 159-174 (1965). (K. Yosida) 33 #1894

Zur Charakterisierung Liescher Elemente in freien Algebren. *Arch. Math. (Basel)* 17 (1966), 44-48. (H. Heineken) 32 #7617

Die Koeffizienten gewisser formaler Potenzreihen in nicht vertauschbaren Unbestimmten. *Arch. Math. (Basel)* 17 (1966), 302-307. (S. Izumi) 33 #7367

Zur mathematischen Theorie der Druckverbreiterung von Spektrallinien. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 65-112. (K. Krickeberg) 36 #3555

Positiv definite Funktionen auf einem unendlich dimensionalen Vektorraum. *Studia Math.* 30 (1968), 153-162. (S. Łojasiewicz) 37 #5610

Charakteristische Funktionale zufälliger Masse. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 279-283. (B. Weiss) 39 #3569

Zur mathematischen Theorie der Druckverbreiterung von Spektrallinien. II. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 39-59. (K. Krickeberg) 41 #4991; errata, 41 p. 1966.

Die Sätze von Bochner und Lévy für fast positive Funktionale. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Geviete* 13 (1969), 215-220. (J. G. Wendel) 40 #6622

Waldhausen, Friedhelm

Eine Klasse von 3-dimensionalen Mannigfaltigkeiten. I, II. *Invent. Math.* 3 (1967), 308-333; *ibid.* 4 (1967), 87-117. (D. B. A. Epstein) 38 #3880

Eine Verallgemeinerung des Schleifensatzes. *Topology* 6 (1967), 501-504. (K. Aoki) 36 #3366

Gruppen mit Zentrum und 3-dimensionale Mannigfaltigkeiten. *Topology* 6 (1967), 505-517. (C. H. Giffen) 38 #5223

On irreducible 3-manifolds which are sufficiently large. *Ann. of Math.* (2) 87 (1968), 56-88. (W. Haken) 36 #7146

The word problem in fundamental groups of sufficiently large irreducible 3-manifold. *Ann. of Math.* (2) 88 (1968), 272-280. (W. Haken) 39 #2167

Heegaard-Zerlegungen der 3-Sphäre. *Topology* 7 (1968), 195-203. (H. B. Griffiths) 37 #3576

Über Involutionen der 3-Sphäre. *Topology* 8 (1969), 81-91. (H. W. Lambert) 38 #5209

On mappings of handlebodies and of Heegaard splittings. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga.,* 1969*), pp.* 205-211. *Markham, Chicago, Ill.,* 1970. (H. W. Lambert) 42 #6822

aldinger, Hermann V.

On the subgroups of the Picard group. *Proc. Amer. Math. Soc.* 16 (1965), 1373-1378. (J. Lehner) 32 #7647

On extending Witt's formula. *J. Algebra* 5 (1967), 41-58. (P. J. Higgins) 34 #228

The lower central series of groups of a special class. *J. Algebra* 14 (1970), 229-244. (N. D. Gupta) 41 #5502

Waldinger, Richard J.

(with Manna, Zohar) Towards automatic program synthesis. *Symposium on Semantics of Algorithmic Languages, pp.* 270-310. *Lecture Notes in Mathematics, Vol.* 188. *Springer, Berlin,* 1971. (D. Vaida) 43 #4303

Waldmann, Ludwig

The basic kinetic equations for para-ortho-hydrogen mixtures. *Physica* 30 (1964), 17-37. (E. G. D. Cohen) 31 #4531

Quantum-theoretical transport equations for polyatomic gases. *Statist. Mech. of Equilibrium and Non-equilibrium, Proc. Internat. Sympos., Aachen,* 1965, *pp.* 177-191. *North-Holland, Amsterdam,* 1975. (P. Résibois) 31 #5645

Waldron, R. A.

The integration of Bessel functions. *J. Inst. Math. Appl.* 4 (1968), 315-319. (R. K. Saxena) 38 #4733

The integration of functions which are solutions of differential equations of a certain type. *Quart. J. Mech. Appl. Math.* 24 (1971), 251-261. (Y. L. Luke) 44 #1854

Waldschmidt, Michel

Solution d'un problème de Schneider sur les nombres transcendants. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A697-A700. (W. W. Adams) 42 #4499

Amélioration d'un théorème de Lang sur l'indépendance algébrique d'exponentielles. *C. R. Acad. Sci. Paris Ser. A - B* 272 (1971), A413-A415. (W. W. Adams) 43 #6163

Waldvogel, Jörg

(with Stiefel, Eduard) Problème restreint des trois corps. Généralisation de la régularisation de Birkhoff pour le mouvement du mobile dans le mouvement du mobile dans l'espace à trois dimensions. *C. R. Acad. Sci. Paris* 260 (1965), 805. (E. Leimanis) 30 #4572

Walek, Heinrich

Skalen von Banachräumen und gebrochene Potenzen linearer Operatoren. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 18 (1969), *Heft* 2, 269-272. (E. Gerlach) 41 #8987

Wales, David B.

Finite linear groups in seven variables. *Bull. Amer. Math. Soc.* 74 (1968), 197-198. (P. Fong) 36 #1552

(with Hall, Marshall, Jr.) The simple group of order 604,800. *J. Algebra* 9 (1968), 417-450. (A. Mann) 39 #1544

(with Hall, Marshall, Jr.) The simple group of order 604,800. *Theory of Finite Groups (Symposium, Harvard Univ., Cambridge, Mass.,* 1968*), pp.* 79-90. *Benjamin, New York,* 1969. (H. Nagao) 41 #328

Finite linear groups of prime degree. *Canad. J. Math.* 21 (1969), 1025-1041. (I. M. Isaacs) 40 #1488

Finite linear groups of degree seven. I. *Canad. J. Math.* 21 (1969), 1042-1046. (I. M. Isaacs) 40 #1489

The uniqueness of the simple group of order 604800 as a subgroup of $SL_6(4)$. *J. Algebra* 11 (1969), 455-460. (A. Mann) 38 #4556

The uniqueness of the simple group of order $SL_6(4)$. *J. Algebra* 11 (1969), 455-460. (A. Mann) 38 #4556

Generators of the Hall-Janko group as a subgroup of $G_2(4)$. *J. Algebra* 13 (1969), 513-516. (A. P. Street) 40 #4364

Uniqueness of the graph of a rank three group. *Pacific J. Math.* 30 (1969), 271-276. (A. R. Camina) 40 #216

Defect groups in p-constrained groups. *J. Algebra* 14 (1970), 572-574. (E. E. Shult) 41 #1900

Simple groups of order $p \cdot 3^a \cdot 2^b$. *J. Algebra* 16 (1970), 183-190. (S. Oates Macdonald) 42 #361

Simple groups of order $7 \cdot 3^a \cdot 2^b$. *J. Algebra* 16 (1970), 575-596. (S. Oates Macdonald) 42 #3169

(with Hall, Marshall, Jr.; Lane, Richard N.) Designs derived from permutation groups. *J. Combinatorial Theory* 8 (1970), 12-22. (H. Hanani) 40 #4136

Finite linear groups of degree seven. II. *Pacific J. Math.* 34 (1970), 207-235. (I. M. Isaacs) 42 #1918

(with McKay, John) The mutipliers of the simple groups of order 604,800 and 50,232,960. *J. Algebra* 17 (1971), 262-272. (W. J. Wong) 43 #340

Simple groups of order $17 \cdot 3^a \cdot 2^b$. *J. Algebra* 17 (1971), 429-433. (J. H. Walter) 43 #7506

Simple groups of order $13 \cdot 3^a \cdot 2^b$. *J. Algebra* 20 (1972), 124-143. (W. J. Wong) 44 #4089

Walfisz, A. See Val'fiš, Anna.

Walfisz, Anna. See Val'fiš, Anna.

Walfisz, Arnold. See Val'fiš, A. Z.

Wali, Kameshwar C.

(with Warnock, Robert L.) Breaking of SU(3) symmetry in the $3/2^+$ meson-baryon decuplet. *Phys. Rev.* (2) 135 (1964), B1358-B1368. (A. O. Barut) 30 #3718

(with Sakita, B.) Phenomenological approach to a relativistic SU(6) theory. *Phys. Rev. Lett.* 14 (1965), 404-408. (T. K. Kuo) 31 #1986 (with Sakita, Bunji) Relativistic formulation of the SU(6) symmetry scheme. *Phys. Rev.* (2) 139 (1965), B1355-B1367. (R. Mirman) 33 #5300

(with Ernst, Frederick J.; Warnock, Robert L.) Linear and nonlinear mass-difference effects in a model of the baryon multiplets. *Phys. Rev.* (2) 141 (1966), 1354-1372. (P. Tarjanne) 33 #3663

Waligórska, Pelagia

(with Głowacki, Bartłomiej; Ziemkiewicz, Andrzej) Methods of high-speed multiplication in binary number systems. *Algorytmy* 5, *no.* 9, 109-126 (1968). (A. D. Booth) 42 #1374

Waligórski, Stanisław

(See Mostowski, A. Włodzimierz, 30 #3854)

On normal equivalents of truth functions. *Algorytmy* 1 *no.* 1, 73-96 (1962). (R. W. Ritchie) 33 #2528

Implications in Boolean algebras with a two-valued closure operator. (Polish and Russian summaries) *Studia Logica* 23 (1968), 25-34. (From the author's introduction) 39 #2621

Algebraic theory of automata. (Polish. English and Russian summaries) *Algorytmy* 6, *no.* 11, 131 *pp.* (1969). (B. M. Schein (Šaĭn)) 41 #3190

Waliszewski, W.

Categories, groupoids, pseudogroups and analytical structures. *Rozprawy Mat.* 45 (1965), 40 *pp.* (P. J. Higgins) 32 #2502

On the tangency of sets in a metric space. *Colloq. Math.* (1966), 129-133. (P. Scherk) 33 #4830

On closures of sets in quasi-algebras. *Prace Mat.* 10 (1966), 141-143 (1967). (A. Sade) 34 #7433

On an isomorphism of some categories. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 85-86. (S. Y. Husseini) 39 #2838

On an axiomatic characterization of certain quasi-algebras with one partial operation. *Prace Mat.* 11 (1967), 15-18. (A. C. Choudhury) 36 #5057

Inductive definitions. *Prace Mat.* 11 (1967), 19-22. (J. N. Crossley) 36 #1331

On the transitivity of some relations between atlases. *Colloq. Math.* 20 (1969), 255-259. (R. Schultz) 39 #6236

Waliszewski, Włodzimierz

Condition nécessaire et suffisante pour qu'un certain système de deux équations à deux inconnues ait des solutions. *Bull. Soc. Sci. Lettres Łódź* 14 (1963), *no.* 7, 11 *pp.* (J. V. Ryff) 29 #2346

On a generalization of the notion of a semi-group. *Colloq. Math.* 15 (1966), 191-194. (H. H. Campaigne) 34 #268

Waliuzzaman, K. M.

(with Vranesic, Z. G.) On decomposition of multi-valued switching functions. *Comput. J.* 13 (1970), 359-362. (C. L. Sheng) 42 #7428

Walk, Harro

(with Hinderer, K.) Randeigenschaften zufälliger Potenzreihen und eine damit zusammenhängende Verallgemeinerung des Satzes von Fatou und Nevanlinna. *Math. Ann.* 172 (1967), 94-104. (M. E. Noble) 35 #6802

Symmetrisierte und zentrierte Folgen von Zufallsvariablen. *Math. Z.* 102 (1967), 44-55. (Simeon M. Berman) 36 #2206

Über das Randverhalten zufälliger Potenzreihen. *J. Reine Angew. Math.* 230 (1968), 66-103. (P. Erdős) 37 #2961

Approximation durch Folgen linearer positiver Operatoren. *Arch. Math. (Basel)* 20 (1969), 398-404. (M. W. Müller) 42 #2229

Wachstumsverhalten zufälliger Potenzreihen. (English summary) *A. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 293-306. (V. K. Rohatgi) 40 #6634

Convergence properties of martingale transforms. *Ann. Math. Statist.* 41 (1970), 706-709. (W. F. Stout) 41 #7757

Bemerkungen über multiplikative Systeme. *Math. Ann.* 186 (1970), 36-44. (V. Fabian) 42 #1189

Konvergenz und Summierbarkeit von Reihen zufälliger Variablen. *Math. Z.* 113 (1970), 49-60. (H. H. Stratton) 42 #6913

Walk, K.

(with Kuich, W.) Block-stochastic matrices and associated finite-state languages. (German summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 50-61. (From the authors' introduction) 32 #7358

Walk, Manfred

Über das Cauchysche Anfangswertproblem schwach nichtlinearer hyperbolischer Differentialgleichungen. *Math. Nachr.* 27 (1963), 9-28. (C. H. Wilcox) 29 #6188

Verallgemeinerte Lösungen von Randwertproblemen elliptischer Differentialgleichungen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 301-328. (H. Beckert) 37 #5532

Eine Bemerkung zur Integrierbarkeit eines Produktes von zwei Funktionen in Sobolewschen Räumen. *Arch. Math. (Basel)* 17 (1966), 548-550. (D. Ludwig) 34 #4894

Ein kombiniertes Randwertproblem im Einheitskreis. *Publ. Math. Debrecen* 14 (1967), 247-254. (H. Beckert) 37 #3196

Verallgemeinerte Lösbarkeit des gemischten Problems quasilinearer Differentialgleichungen zweiter Ordnung vom hyperbolischen Typ. *Math. Nachr.* 41 (1969), 213-221. (W. Sibagaki) 42 #8063

Walker, A. G.

Note on metrisable Lie groups and algebras. *Calcutta Math. Soc. Golden Jubilee Commemoration Vol.* (1958/59), *Part I, pp.* 185-192. *Calcutta Math. Soc., Calcutta,* 1963. (A. Goetz) 29 #567

Walker, A. M.

Large-sample estimation of parameters for autoregressive processes with moving-average residuals. *Biometrika* 49 (1962), 117-131. (P. Whittle) 29 #5360

A note on the asymptotic efficiency of an asymptotically normal estimator sequence. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 195-200. (Author's summary) 29 #5335 (E)

(with Anderson, R. W.) On the asymptotic distribution of the autocorrelations of a sample from a linear stochastic process. *Ann. Math. Statist.* 35 (1964), 1296-1303. (P. H. Diananda) 29 #2882

Asymptotic properties of least-squares estimates of parameter of the spectrum of a stationary non-deterministic time-series. *J. Austral. Math. Soc.* 4 (1964), 363-384. (E. A. Robinson) 30 #1576

Some asymptotic results for the periodogram of a stationary time series. *J. Austral. Math. Soc.* 5 (1965), 107-128. (E. J. Hannan) 31 #1720

Corrigendum to: Some asymptotic results for the periodogram of a stationary time series. *J. Austral. Math. Soc.* 5 (1965), 512. (Editors) 32 #4750

Some tests of separate families of hypotheses in time series analysis. *Biometrika* 54 (1967), 39-68. (P. Whittle) 35 #7545

Correction to: "A note on the asymptotic efficiency of an asymtotically normal estimator sequence". *J. Roy. Statist. Soc. Ser. B* 29 (1967), 196. (Editors) 35 #5047

A note on the asymptotic distribution of sample quantiles. *J. Roy. Statist. Soc. Ser. B* 30 (1968), 570-575. (Author's summary) 39 #7711

On the asymptotic behaviour of posterior distributions. *J. Roy. Statist. Soc. Ser. B* 31 (1969), 80-88. 42 #3897

On the estimation of a harmonic component in a time series with stationary independent residuals. *Biometrika* 58 (1971), 21-36. 43 #1372

Walker, Carol L.

(with Irwin, John M.; Walker, Elbert A.) On p^{α}-pure sequences of Abelian groups. *Topics in Abelian Groups (Proc. Sympos., New Mexico State Univ., 1962), pp.* 69-119. *Scott, Foresman and Co., Chicago, Ill,* 1963. (D. K. Harrison) 33 #7410

Properties of EXT and quasi-splitting of Abelian groups. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 157-160. (L. Fuchs) 29 #4798

(with Walker, Elbert A.) Quotient categories of modules. *Proc. Conf. Categorical Algebra (La Jolla, Calif., 1965), pp.* 404-420. *Springer, New York,* 1966. (H. Bass) 34 #5900

(with Richman, Fred) On a certain purification problem for primary abelian groups. *Bull. Soc. Math. France* 94 (1966), 207-210. (E. A. Walker) 34 #4360

Relative homological algebra and Abelian groups. *Illinois J. Math.* 10 (1966), 186-209. (J. Rotman) 32 #7624

(with Richman, Fred; Walker, Elbert A.) Projective classes of Abelian groups. *Studies on Abelian Groups (Symposium, Montpellier, 1967); pp.* 335-343. *Springer, Berlin,* 1968. (U. Stammbach) 39 #4255

Walker, D. T.

On the diophantine equation $mX^2 - nY^2 = \pm 1$. *Amer. Math. Monthly* 74 (1967), 504-513. (B. Stolt) 35 #2829

Walker, Dennis

(with Power, Geoffrey) Some reciprocal relations in rotational magnetogasdynamic flow. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 144-154. (R. Peyret) 29 #4400

(Power, Geoffrey) Plane gasdynamic flows with orthogonal magnetic and velocity field distributions. (French summary) *Z. Angew. Math. Phys.* 16 (1965), 803-817. (T. S. Lundgren) 32 #8664

Walker, Elbert A.

(with Irwin, John M.; Walker, Carol L.) On p^{α}-pure sequences of Abelian groups. *Topics in Abelian Groups (Proc. Sympos., New Mexico State Univ., 1962), pp.* 69-119. *Scott, Foresman and Co., Chicago, Ill.,* 1963. (D. K. Harrison) 33 #7410

Quotient categories and quasi-isomorphisms of Abelian groups. *Proc. Colloq. Abelian Groups (Tihany, 1963), pp.* 147-162. *Akadémiai Kiadó, Budapest,* 1964. (D. K. Harrison) 31 #2327

(with Khabbaz, S.) The number of basic subgroups of primary groups. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 153-155. (L. Fuchs) 29 #153

On *n*-extensions of abelian groups. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 8 (1965), 71-74. (K. Honda) 33 #183

(Richman, Fred) Primary abelian groups as modules over their endomorphism rings. *Math. Z.* 89 (1965), 77-81. (C. W. Curtis) 32 #2475

(with Walker, Carol L.) Quotient categories of modules. *Proc. Conf. Categorical Algebra (La Jolla, Calif., 1965), pp.* 404-420. *Springer, New York,* 1966. (H. Bass) 34 #5900

(with Irwin, John M.; Richman, Fred) Countable direct sums of torsion complete groups. *Proc. Amer. Math. Soc.* 17 (1966), 763-766. (C. S. Hönig) 33 #5721

(with Faith, Carl) Direct-sum representations of injective modules. *J. Algebra* 5 (1967), 203-221. (H. Bass) 34 #7575

(with Richman, Fred) Cotorsion free, an example of relative injectivity. *Math. Z.* 102 (1967), 115-117. (F. L. Hardy) 36 #1539

(with Richman, Fred; Walker, Carol) Projective classes of Abelian groups. *Studies on Abelian Groups (Symposium, Montpellier, 1967), pp.* 335-343. *Springer, Berlin,* 1968. (U. Stammbach) 39 #4255

(with Richman, Fred) Extending Ulm's theorem without group theory. *Proc. Amer. Math. Soc.* 21 (1969), 194-196. (A. Mader) 39 #1553

(with Parker, Larry D.) An extension of the Ulm-Kolettis theorems. *Studies on Abelian Groups (Symposium, Montpellier, 1967), pp.* 309-325. *Springer, Berlin,* 1968. (K. Faltings) 42 #367

Divisible quotient groups of reduced Abelian groups. *Rocky Mountain J. Math.* 1 (1971), *no.* 2, 353-355. (J. D. Reid) 43 #346

Walker, G.

(with Adams, J. F.) An example in homotopy theory. *Proc. Cambridge Philos. Soc.* 60 (1964), 699-700. (W. D. Barcus) 29 #4059

(with Adams, J. F.) On complex Stiefel manifolds. *Proc. Cambridge Philos. Soc.* 61 (1965), 81-103. (R. H. Szczarba) 30 #1516

Walker, Grayson H.

(with Ford, Joseph) Amplitude instability and ergodic behavior for conservative nonlinear oscillator systems. *Phys. Rev.* (2) 188 (1969), 416-432. (P. Ungar) 41 #5598

Walker, Homer F.

On the null-spaces of first-order elliptic partial differential operators in R^n. *Proc. Amer. Math. Soc.* 30 (1971), 278-286. (F. Hoppensteadt) 43 #6583

alker, J. A.

(with Clark, L. G.) An integral method of Liapunov function generation for nonlinear autonomous systems. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 569-575. (R. A. Struble) 32 # 4905

(with McClamroch, N. H.) Finite regions of attraction for feedback systems containing a single time-varying nonlinearity. *IEEE Trans. Automatic Control* AC-13 (1968), 587. (Authors' summary) 38 #4195

Liapunov functions for feedback systems containing a single time-varying non-linearity. *Internat. J. Control* (1) 7 (1968), 171-174. (P. Sagirow) 38 #1928

On the stability of linear discrete dynamic systems. *Trans. ASME Ser. E. J. Appl. Mech.* 37 (1970), 271-275. (D. H. Chyung) 42 #7330

alker, J. B.

(with Pipkin, A. C.; Rivlin, R. S.) Maxwell's equations in a deformed body. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 674-676. (C. Yeh) 33 #3597

Walker, J. Richard

Relationships among pointlike, cellular and acyclic mappings. *Proc. First Conf. on Monotone Mappings and Open Mappings (SUNY at Binghamton, Binghamton, N. Y., 1970), pp.* 122-130. *State Univ. of New York at Binghamton, Binghamton, N. Y.,* 1971. (Author's introduction) 43 #1145

Walker, K.

Dichromatic graphs and Ramsey numbers. *J. Combinatorial Theory* 5 (1968), 238-243. (K. Wagner) 38 #79

The analogue of Ramsey numbers for planar graphs. *Bull. London Math. Soc.* 1 (1969), 187-190. (M. Aigner) 39 #5409

An upper bound for the Ramsey number $M(5, 4)$. *J. Combinatorial Theory Ser. A* 11 (1971), 1-10. (R. E. Greenwood) 43 #105

Walker, Laurence R.

(with Hone, Daniel; Callen, Herbert) Thermodynamic properties of spin impurities in Heisenberg ferromagnets. *Phys. Rev.* (2) 144 (1966), 283-295. (A. A. Maradudin) 33 #3707

Walker, Leroy H.

Regarding stopping rules for Brownian motion and random walks. *Bull. Amer. Math. Soc.* 75 (1969), 46-50. (H. Teicher) 39 #987

Walker, Martin

(with Penrose, Roger) On quadratic first integrals of the geodesic equations for type {22} spacetimes. *Comm. Math. Phys.* 18 (1970), 265-274. (J. R. Vanstone) 42 #7232

Block diagrams and the extension of timelike two-surfaces. *J. Mathematical Phys.* 11 (1970), 2280-2286. (J. Blackman) 43 #5882

Walker, Miles

* The Schwarz-Christoffel transformation and its applications. A simple exposition. *Dover Publications, Inc., New York,* 1964. v + 116 *pp.* (Editors) 29 #1313

Walker, P. L.

Lipschitz classes on 0-dimensional groups. *Proc. Cambridge Philos. Soc.* 63 (1967), 923-928. (D. E. Ramirez) 35 #7081

Lipschitz classes on finite dimensional groups. *Proc. Cambridge Philos. Soc.* 66 (1969), 31-38. (D. E. Ramirez) 39 #1912

Walker, Philip W.

Asymptotica of the solutions to $[(ry'')' - py']' + qy = \delta y$. *J. Differential Equations* 9 (1971), 108-132. (A. Erdélyi) 42 #4829

Deficiency indices of fourth-order singular differential operators. *J. Differential Equations* 9 (1971), 133-140. (A. Erdélyi) 43 #6498

Walker, R. G.

(with Geddes, A.) The structure of cancellative power-free groups. *Proc. Glasgow Math. Assoc.* 7, 199-206 (1966). (F. A. Sherk) 33 #7452a

Non-cancellative power-free groups. *Proc. Glasgow Math. Assoc.* 7 207-212 (1966). (F. A. Sherk) 33 #7452b

Walker, R. L.

* (with Mathews, Jon) Mathematical methods of physics. *W. A. Benjamin, Inc., New York-Amsterdam,* 1964. x + 475 *pp.* (W. Franzen) 30 #1635

* (with Mathews, Jon) Mathematical methods of physics. Second edition. *W. A. Benjamin, Inc., New York,* 1970. xiii + 501 *pp.* (From the preface) 41 #6429

Walker, Strother H.

(with Duncan, David B.) Estimation of the probability of an event as a function of several independent variables. *Biometrika* 54 (1967), 167-179. (R. K. Tsutakawa) 36 #1017

Walker, Warren E.

A method for obtaining the optimal dual solution to a linear program using the Dantzig-Wolfe decomposition. *Operations Res.* 17 (1969), 368-370. (Author's summary) 39 # 3815

Walker, William F.

(with Grigoriadis, Michael D.) A treatment of transportation problems by primal partition programming. *Management Sci.* 14 (1968), 565-599. (Authors' summary) 39 # 3801

Walkoe, Wilbur John, Jr.

Finite partially-ordered quantification. *J. Symbolic Logic* 35 (1970), 535-555. (N. C. A. da Costa) 43 # 4646

Walkup, David W.

Covering a rectangle with T-tetrominoes. *Amer. Math. Monthly* 72 (1965), 986-988. (J. J. Burckhardt) 32 # 1582

Minimal interchanges of (0, 1)-matrices and disjoint circuits in a graph. *Canad. J. Math.* 17 (1965), 831-838. (H. J. Ryser) 32 #4039

(with Klee, Victor) The d-step conjecture for polyhedra of dimension $d < 6$. *Acta Math.* 117 (1967), 53-78. (G. T. Sallee) 34 #6639

(with Esary, J. D.; Proschan, F.) Association of random variables, with applications. *Ann. Math. Statist.* 38 (1967), 1466-1474. (I. Olkin) 36 #915

(with Marshall, Albert W.; Wets, R. J.-B.) Order-preserving functions: Applications to majorization and order statistics. *Pacific J. Math.* 23 (1967), 569-584. (R. E. Smithson) 36 #2756

(with Wets, Roger J.-B.) Continuity of some convex-cone-valued mappings. *Proc. Amer. Math. Soc.* 18 (1967), 229-235. (B. Yood) 35 #702

(with Wets, Roger J.-B.) Stochastic programs with recourse. *SIAM J. Appl. Math.* 15 (1967), 1299-1314. (B. Bereanu) 38 #1910

A simplex with a large cross section. *Amer. Math. Monthly* 75 (1968), 34-36. (H. T. Croft) 37 #2095

(with Wets, Roger J.-B.) A note on decision rules for stochastic programs. *J. Comput. System Sci.* 2 (1968), 305-311. (B. Bereanu) 39 #7941

Minimal conditions for association of binary variables. *SIAM J. Appl. Math.* 16 (1968), 1394-1403. (R. H. Farrell) 39 #5034

(with Fisher, Lloyd) An example of the difference between the Lévy and Lévy-Prokhorov metrics. *Ann. Math. Statist.* 40 (1969), 322-324. (R. Cuppens) 38 #6638

(with Wets, Roger J.-B.) Lifting projections of convex polyhedra. *Pacific J. Math.* 28 (1969), 465-475. (P. McMullen) 39 #3390

(with Wets, Roger J.-B.) A Lipschitzian characterization of convex polyhedra. *Proc. Amer. Math. Soc.* 23 (1969), 167-173. (P. McMullen) 39 #7504 (with Wets, Roger J.-B.) Stochastic programs with recourse. II: On the continuity of the objective. *SIAM J. Appl. Math.* 17 (1969), 98-103. (B. Bereanu) 39 #7942

(Wets, Roger J.-B.) Some practical regularity conditions for nonlinear programs. *SIAM J. Control* 7 (1969), 430-436. (G. Berman) 41 #9575

The lower bound conjecture for 3- and 4-manifolds. *Acta Math.* 125 (1970), 75-107. (J. Zaks) 43 #1038

(with Bachmuth, Seymour; Mochizuki, Horace Y.) A nonsolvable group of exponent 5. *Bull. Amer. Math. Soc.* 76 (1970), 638-640. (H. Heineken) 41 #1862

Wall, C. T. C.

Resolutions for extensions of groups. *Proc. Cambridge Philos. Soc.* 57 (1961), 251-255. (A. J. Douglas) 31 #2304

Graded Brauer groups. *J. Reine Angew. Math.* 213 (1963/64), 187-199. (T. Ono) 29 #4771

Diffeomorphisms of 4-manifolds. *J. London Math. Soc.* 39 (1964), 131-140. (N. H. Kuiper) 29 #626

On simply-connected 4-manifolds. *J. London Math. Soc.* 39 (1964), 141-149. (N. H. Kuiper) 29 #627

Cobordism of combinatorial n-manifolds for $n \leq 8$. *Proc. Cambridge Philos. Soc.* 60 (1964), 807-811. (A. Haefliger) 29 #6500

Finiteness conditions for CW-complexes. *Ann. of Math.* (2) 81 (1965), 56-69. (A. Dold) 30 #1515

All 3-manifolds imbed in 5-space. *Bull. Amer. Math. Soc.* 71 (1965), 564-567. (M. W. Hirsch) 30 #5324

Piecewise linear normal mocro-bundles. *Bull. Amer. Math. Soc.* 71 (1965), 638-641. (N. H. Kuiper) 35 #1038

Topology of smooth manifolds. *J. London Math. Soc.* 40 (1965), 1-20. (N. H. Kuiper) 30 #2524

Unknotting tori in codimension one and spheres in codimension two. *Proc. Cambridge Philos. Soc.* 61 (1965), 659-664. (R. H. Rosen) 32 #1722

Open 3-manifolds which are 1-connected at infinity. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 263-268. (D. B. A. Epstein) 31 #6218

Classification problems in differential topology. III. Applications to special cases. *Topology* 3 (1965), 291-304. (N. H. Kuiper) 31 #1684

(with Haefliger, A.) Piecewise linear bundles in the stable range. *Topology* 4 (1965), 209-214. (M. W. Hirsch) 32 #1716

(with Hsiang, W. C.) Orientability of manifolds for generalised homology theories. *Trans. Amer. Math. Soc.* 118 (1965), 352-359. (J. F. Adams) 31 #1670

An extension of results of Novikov and Browder. *Amer. J. Math.* 88 (1966), 20-32. (A. Haefliger) 35 #3691

Surgery of non-simply-connected manifolds. *Ann. of Math.* (2) 84 (1966), 217-276. (A. Haefliger) 35 #3692

Arithmetic invariants of subdivision of complexes. *Canad. J. Math.* 18 (1966), 92-96. (M. L. Curtis) 32 #6444

On the exactness of interlocking sequences. *Enseignement Math.* (2) 12 (1966), 95-100. (Ronald Brown) 34 #6759

Classification problems in differential topology. V. On certain 6-manifolds. *Invent. Math.* 1 (1966), 355-374; *corrigendum, ibid.* 2 (1967), 306. (M. A. Kervaire) 35 #6154

Addendum to a paper of Conner and Floyd. *Proc. Cambridge Philos. Soc.* 62 (1966), 171-175. (M. F. Atiyah) 32 #6472

Finiteness conditions for *CW* complexes. II. *Proc. Roy. Soc. Ser. A* 295 (1966), 129-139. (A. Dold) 35 #2283

Formal deformations. *Proc. London Math. Soc.* (3) 16 (1966), 342-352. (M. L. Curtis) 33 #1851

Classification problems in differential topology. IV. Thickenings. *Topology* 5 (1966), 73-94. (A. Dold) 33 #734

(with Atiyah, M. F.) Cohomology of groups. *Algebraic Number Theory (Proc. Instructional Conf., Brighton,* 1965*), pp.* 94-115. *Thompson, Washington, D. C.*, 1967. (A. P. Ogg) 36 #2593

Poincaré complexes. I. *Ann. of Math.* (2) 86 (1967), 213-245. (E. H. Brown) 36 #880

On bundles over a sphere with fibre Euclidean space. *Fund. Math.* 61 (1967), 57-72. (C. H. Edwards, Jr.) 37 #3578

Locally flat *PL* submanifolds with codimension two. *Proc. Cambridge Philos. Soc.* 63 (1967), 5-8. (C. H. Edwards, Jr.) 37 #3577

Classification problems in differential topology. VI. Classification of $(s - 1)$-connected $(2s + 1)$-manifolds. *Topology* 6 (1967), 273-296. (N. H. Kuiper) 35 #7343

Graded algebras, anti-involutions, simple groups and symmetric spaces. *Bull. Amer. Math. Soc.* 74 (1968), 198-202. (W. Scharlau) 36 #1478

Free piecewise linear involutions on spheres. *Bull. Amer. Math. Soc.* 74 (1968), 554-558. (L. S. Husch) 36 #5955

Homeomorphism and diffeomorphism classification of manifolds. *Proc. Internat. Congr. Math. (Moscow,* 1966*), pp.* 450-460. *Izdat. "Mir", Moscow*, 1968. (R. K. Lashof) 38 #1684

(with Fröhlich, A.) Foundations of equivariant algebraic *K*-theory. *Algebraic K-Theory and its Geometric Applications (Conf., Hull,* 1969*), pp.* 12-27. *Springer, Berlin*, 1969. (J. A. Schafer) 40 #4339

On homotopy tori and the annulus theorem. *Bull. London Math. Soc.* 1 (1969), 95-97. (W. A. LaBach) 39 #3498

(with Hsiang, W.-C.) On homotopy tori. II. *Bull. London Math. Soc.* 1 (1969), 341-342. (L. S. Husch) 41 #2691

Non-additivity of the signature. *Invent. Math.* 7 (1969), 269-274. (Ph. Tondeur) 39 #7615

The topological space-form problems. *Topology of Manifold (Proc. Inst., Univ. of Georgia, Athens, Ga.,* 1969*), pp.* 319-331. *Markham, Chicago, Ill.*, 1970. (W. A. LaBach) 43 #5540

On the classification of hermitian forms. I. Rings of algebraic integers. *Compositio Math.* 22 (1970), 425-451. (J. S. Hsia) 43 #7425

On the axiomatic foundations of the theory of Hermitian forms. *Proc. Cambridge Philos. Soc.* 67 (1970), 243-250. (J. S. Hsia) 40 #4285

On groups consisting mostly of involutions. *Proc. Cambridg Philos. Soc.* 67 (1970), 251-262. (I. M. Isaacs) 40 #2748

(See also Proceedings of Liverpool Singularities—Symposium 43 #4055)

Lectures on C^∞-stability and classification. *Proceedings o Liverpool Singularities - Symposium, I* (1969/70), *pp.* 178-206. *Lecture Notes in Mathematics, Vol.* 192. *Springer, Berlin*, 1971. (Author's introduction) 44 #2244

(with Browder, William; Petrie, Ted) The classification of free actions of cyclic groups of odd order on homotopy spheres. *Bull. Amer. Math. Soc.* 77 (1971), 455-459. (J. A. Schafer) 43 #5547

Geometrical connectivity. I. *J. London Math. Soc.* (2) 3 (1971), 597-604. (Edgar H. Brown, Jr.) 44 #7569a

Geometrical connectivity. II. Dimension 3. *J. London Math Soc.* (2) 3 (1971), 605-608. (Edgar H. Brown, Jr.) 44 #7569b

Wall, Charles R.

Bi-unitary perfect numbers. *Proc. Amer. Math. Soc.* 33 (1972), 39-42. (T. M. Apostol) 44 #6594

Wall, Curtiss E.

(with Chartrand, Gary; Kronk, Hudson V.) The point-arboric of a graph. *Israel J. Math.* 6 (1968), 169-175. (C. St. J. A. Nash-Williams) 38 #4347

Arc digraphs and traversability. *The Many Facets of Graph Theory (Proc. Conf., Western Mich. Univ., Kalamazoo, Mich.,* 1968*), pp.* 287-290. *Springer, Berlin*, 1969. (D. P. Geller) 40 #4170

(with Behzad, Mehdi; Chartrand, Gary) On minimal regular digraphs with given girth. *Fund. Math.* 69 (1970), 227-231. (Neil Robertson) 44 #2666

(with Petroelje, Wayne S.) Graph-valued functions and Hamiltonian graphs. *Recent Trends in Graph Theory (Proc. Conf., New York,* 1970*), pp.* 211-213. *Lecture Notes in Mathematics, Vol.* 186. *Springer, Berlin*, 1971. (M. Behzad) 43 #7360

Wall, Drury W.

Basic algebras of algebras with unique minimal faithful representations. *Duke Math. J.* 32 (1965), 53-63. (E. H. Batho) 32 #7599

Characterisations of generalised uniserial algebras. III. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 37-42. (G. Azumaya) 35 #1622

Wall, Edward T.

The generation of Liapunov functions in control theory by an energy metric algorithm. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 172-179. *Inst. Electr. Electron. Engineers, New York*, 1968. (Author's summary) 40 #2380

A topological approach to the generation of Liapunov functio *Acta Tech. ČSAV* 13 (1968), 159-177. (R. Liu) 39 #7977

(with Steward, Dale F.) A matrix transformation for the direct generation of Liapunov state functions. *Acta Tech. ČSAV* 14 (1969), 667-682. (T. Zolezzi) 42 #7328

(with Moe, Maynard L.) Generation of Liapunov functions for time-varying nonlinear systems. *IEEE Trans. Automatic Control* AC-14 (1969), 211. (Authors' summary) 39 #5187

A modification of the energy metric algorithm to include the Routh-Hurwitz criteria. *IEEE Trans. Automatic Control* AC-15 (1970), 373-374. (Author's summary) 43 #1687

Wall, Gordon E.

(with Barnes, D. W.) On normaliser preserving lattice isomorphisms between nilpotent groups. *J. Austral. Math. Soc.* 4 (1964), 454-469. (F. Haimo) 30 #3922

(with Kovács, L. G.) Involutory automorphisms of groups of odd order and their fixed point groups. *Nagoya Math. J.* 27 (1966), 113-120. (N. Ito) 33 #2714

On Hughes' H_p problem. *Proc. Internat. Conf. Theory of Groups (Canberra,* 1965*), pp.* 357-362. *Gordon and Breach, New York*, 1967. (G. Zappa) 36 #2686

A characterisation of $PSL_2(Z_{p\lambda})$ and $PGL_2(Z_{p\lambda})$. *J. Austral. Math. Soc.* 8 (1968), 523-543. (M. J. Wonenburger) 38 #3342

Wallace, Alexander Doniphan

(with Koch, R. J.) Notes on inverse semigroups. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 19-24. (Anne L. Hudson) 31 #1662

(with Bednarek, A. R.) Some theorems on *P*-intersective sets *Acta Math. Acad. Sci. Hungar.* 17 (1966), 9-14. (G. Sabidussi) 32 #7415 (with Franklin, S. P.) The least element map. *Colloq. Math.* 15 (1966), 217-221. (E. A. Stone) 34 #5061

Problems on periodicity--functions and semigroups. *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 209-212. (D. W. Hall) 35 #3639

(with Bednarek, A. R.) Relative ideals and their complements. I. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 13-22. (Donald W. Miller) 36 #2731

(with Aczél, J.) A note on generalizations of transitive systems of transformations. *Colloq. Math.* 17 (1967), 29-34. (A. B. Paalman-de Miranda) 36 #867

(with Day, J. M.) Semigroups acting on continua. *J. Austral. Math. Soc.* 7 (1967), 327-340. (R. P. Hunter) 36 #303

(with Bednarek, Alexander R.) Equivalences on machine state spaces. (Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 3-9. (L. E. Ward, Jr.) 35 #3000

(with Bednarek, A. R.) Finite approximants of compact totally disconnected machines. *Math. Systems Theory* 1 (1967), 209-216. (G. E. Dimitroff) 36 #5919

(with Bednarek, A. R.) A relation-theoretic result with applications in topological algebra. *Math. Systems Theory* 1 (1967), 217-224. (J. Aczél) 36 #4515

(with Day, J. M.) Multiplication induced in the state-space of an act. *Math. Systems Theory* 1 (1967), 305-314. (R. J. Koch) 36 #5920

Recursions with semigroup state-spaces. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1411-1415. (L. Šneperman (RŽMat 1968 #6 A236)) 41 #381

Recent results on binary topological algebras. *Semigroups (Proc. Sympos., Wayne State Univ., Detroit, Mich.*, 1968*), pp.* 261-267. *Academic Press, New York*, 1969. (K. N. Sigmon) 41 #8567

Externally induced operations. *Math. Systems Theory* 3 (1969), 244-245. (T.-S. Wu) 40 #3523

(with Bednarek, A. R.) The functional equation $(xy)(yz) = xz$. Rev. Roumaine Math. Pures Appl. 16 (1971), 3-6. (Haskell Cohen) 44 #353

allace, Andrew H.

Singularities of real analytic spaces. *J. Math. Mech.* 16 (1966), 219-255. (L. Bungart) 34 #5110

* Differential topology: First steps. *W. A. Benjamin, Inc., New York-Amsterdam*, 1968. xii + 130 *pp.* (J. Siegel) 36 #7150

* Algebraic topology: Homology and cohomology. *W. A. Benjamin, Inc., New York*, 1970. ix + 272 *pp.* (Ronald Brown) 43 #4023

Linear sections of algebraic varieties. *Indiana Univ. Math. J.* 20 (1970/71), 1153-1162. (D. B. Scott) 44 #2752

'allace, C. S.

Correlated round-off errors in digital integrating differential analyzers. *Comput. J.* 7 (1964), 131-134. (A. D. Booth) 31 #6394

(with Boulton, D. M.) The information content of a multistate distribution. *J. Theoret. Biol.* 23 (1969), *no.* 2, 269-278. (Authors' summary) 39 #3899

allace, David Alexander Ross

On the commutativity of the radical of a group algebra. *Proc. Glasgow Math. Assoc.* 7, 1-8 (1965). (N. Ito) 31 #2332

The Jacobson radicals of the group algebras of a group and of certain normal subgroups. *Math. Z.* 100 (1967), 282-294. (W. R. Ballard) 36 #2720

Some applications of subnormality in groups in the study of group algebras. *Math. Z.* 108 (1968), 53-62. (T. Hannula) 38 #5948

Lower bounds for the radical of the group algebra of a finite p-soluble group. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 127-134. (T. R. Berger) 39 #7006

On commutative and central conditions on the Jacobson radical of the group algebra of a group. *Proc. London Math. Soc.* (3) 19 (1969), 385-402. (N. Ito) 39 #5722

The radical of the group algebra of a subgroup, of a polycyclic group and of a restricted *SN*-group. *Proc. Edinburgh Math. Soc.* (2) 17 (1970/71), 165-171. (Bhama Srinivasan) 44 #2854

'allace, David L.

* (with Mosteller, Frederick) Inference and disputed authorship: The Federalist. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London*, 1964. xvi + 287 *pp.* (P. J. Davis) 30 #5852

(with Kurtz, T. E.; Link, R. F.; Tukey, J. W.) Short-cut multiple comparisons for balanced single and double classifications. II. Derivations and approximations. *Biometrika* 52 (1965), 485-498. (D. A. Sprott) 35 #3790

(with Kurtz, T. E.; Link, R. F.; Tukey, J. W.) Correlation of ranges of correlated deviates. (With editorial note) *Biometrika* 53 (1966), 191-197. (P. A. P. Moran) 33 #8052

'allace, Duane C.

Lattice dynamics and elasticity of stressed crystals. *Rev. Modern Phys.* 37 (1965), 57-67. (M. J. P. Musgrave) 31 #5636

'allace, E. W.

On matrices of cofactors. *Amer. Math. Monthly* 72 (1965), 144-148. (H. Schwerdtfeger) 30 #3103

A note on Levi's theorem. *Amer. Math. Monthly* 74 (1967), 1238. 36 #3839

Two-dimensional power-associative algebras. *Math. Mag.* 43 (1970), 158-162. (R. H. Oehmke) 42 #332

Wallace, James

(with Clarke, Joseph H.) Uniform second-order solution for supersonic flow over delta wing using reverse-flow integral method. *J. Fluid Mech.* 18 (1964), 225-238. (M. D. Van Dyke) 29 #3086

Wallace, John R.

(with Belnap, Nuel D., Jr.) A decision procedure for the system $E_{\overline{I}}$ of entailment with negation. *Z. Math. Logik Grundlagen Math.* 11 (1965), 277-289. (A. R. Anderson) 31 #4714

Wallace, Kyle D.

On mixed groups of torsion-free rank one with totally projective primary components. *J. Algebra* 17 (1971), 482-488. (J. Rotman) 42 #7772

Wallace, P. R.

Classical theory of plasma and helicon resonances in solids. *Canad. J. Phys.* 42 (1964), 2129-2141. (F. C. Auluck) 31 #2030

Wallace, T. D.

Efficiencies for stepwise regressions. *J. Amer. Statist. Assoc.* 59 (1964), 1179-1182. (M. H. Rizvi) 33 #828

(with Toro-Vizcarrondo, Carlos) A test of the mean square error criterion for restrictions in linear regression. *J. Amer. Statist. Assoc.* 63 (1968), 558-572. 38 #829

Wallach, Nolan R.

On maximal subsystems of root systems. *Canad. J. Math.* 20 (1968), 555-574. (S. Murakami) 38 #1135

Induced representations of Lie algebras and a theorem of Borel-Weil. *Trans. Amer. Math. Soc.* 136 (1969), 181-187. (G. B. Seligman) 38 #2258

Induced representations of Lie algebras. II. *Proc. Amer. Math. Soc.* 21 (1969), 161-166. (G. B. Seligman) 38 #5871

(with do Carmo, Manfredo P.) Minimal immersions of spheres into spheres. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 640-642. (C. B. Allendoerfer) 41 #7584

(with do Carmo, Manfredo Perdigão) Minimal immersions of sphere bundles over spheres. *An. Acad. Brasil. Ci.* 42 (1970), 5-9. (C. B. Allendoerfer) 42 #2496

Extension of locally defined minimal immersions into spheres. *Arch. Math. (Basel)* 21 (1970), 210-213. (R. L. Bishop) 42 #6759

(with Cahen, M.) Lorentzian symmetric spaces. *Bull. Amer. Math. Soc.* 76 (1970), 585-591. (A. Avez) 42 #2402

Homogeneous positively pinched Riemannian manifolds. *Bull. Amer. Math. Soc.* 76 (1970), 283-786. (J. P. Wilson) 41 #2584

(with do Carmo, Manfredo P.) Representations of compact groups and minimal immersions into spheres. *J. Differential Geometry* 4 (1970), 91-104. (O. Loos) 42 #1013

(with Warner, F. W.) Curvature forms for 2-manifolds. *Proc. Amer. Math. Soc.* 25 (1970), 712-713. (C.-C. Hsiung) 41 #7581

(with Greenfield, Stephen H.) Extendibility properties of submanifolds of C^2. *Proc. Carolina Conf. on Holomorphic Mappings and Minimal Surfaces (Chapel Hill, N. C.*, 1970*), pp.* 77-85. *Dept. of Math., Univ. of North Carolina, Chapel Hill, N. C.*, 1970. (R. O. Wells, Jr.) 44 #4233

(with do Carmo, Manfredo P.) Minimal immersions of spheres into spheres. *Ann. of Math.* (2) 93 (1971), 43-62. (S. Y. Husseini) 43 #4048

(with Greenfield, Stephen J.) The Hilbert ball and bi-ball are holomorphically inequivalent. *Bull. Amer. Math. Soc.* 77 (1971), 261-263. (D. E. Sanderson) 42 #3815

Cyclic vectors and irreducibility for principal series representations. *Trans. Amer. Math. Soc.* 158 (1971), 107-113. (R. D. Ogden) 43 #7558

Three new examples of compact manifolds admitting Riemannian structures of positive curvature. *Bull. Amer. Math. Soc.* 78 (1972), 55-56. (Ph. Tondeur) 44 #2166

Wallach, Sylvan

A simple derivation of Jordan canonical matrices over arbitrary fields. *Amer. Math. Monthly* 72 (1965), 614-618. (David Carlson) 31 #4800

Wallach, Y.

On the numerical solution of state equations. *IEEE Trans. Automatic Control* AC-14 (1969), 408-409. (Author's summary) 41 #1402

(with Even, R. K.) On the direct solution of Dirichlet's problem in two dimensions. (German summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 45-56. (J. W. McLaurin) 41 #9450

Wallen, Lawrence J.

A note on finite convolution operators. *SIAM J. Appl. Math.* 14 (1966), 417-419. (W. E. Williams) 34 #1801

On the magnitude of x^n-1 in a normed algebra. *Proc. Amer. Math. Soc.* 18 (1967), 956. (G. Betsch) 35 #7130

Semigroups of partial isometries. *Bull. Amer. Math. Soc.* 75 (1969), 763-764. (D. M. Topping) 40 #1790

(with Halmos, P. R.) Powers of partial isometries. *J. Math. Mech.* 19 (1969/60), 657-663. (R. G. Douglas) 40 #4801

Semi-groups of partial isometrics. *J. Math. Mech.* 19 (1969/70), 745-750. (J. D. Gray) 41 #868

A stability theorem for frames in Hilbert space. *Michigan Math. J.* 16 (1969), 149-151. (R. C. James) 40 #709

On the continuity of a class of unitary representations. *Michigan Math. J.* 16 (1969), 153-155. (A. Brown) 41 #2432

(with Shields, A. L.) The commutants of certain Hilbert space operators. *Indiana Univ. Math. J.* 20 (1970/71), 777-788. (A. Brown) 44 #4558

Decomposition of semi-grcups of partial isometries. *Indiana Univ. Math. J.* 20 (1970/71), 207-212. (G. Da Prato) 42 #3617

Fourier-Stieltjes transforms tending to zero. *Proc. Amer. Math. Soc.* 24 (1970), 651-652. (H. Kober) 41 #739

Wallenius, K. T.

Sequential reliability assurance in finite lots. *Technometrics* 11 (1969), 61-74. 38 #6732

Sampling for confidence. *J. Amer. Statist. Assoc.* 62 (1967), 540-547. (L. A. Aroian) 36 #2272

Waller, John D.

Generalized torsion complete groups. *Studies on Abelian Groups (Symposium, Montpellier, 1967), pp.* 345-356. *Springer, Berlin,* 1968. (J. Hausen) 39 #4277

Wallin, Hans

On convergent and divergent sequences of equilibrium distributions. *Ark. Mat.* 4 527-549 (1963). (R. J. Newman) 30 #4967

Continuous functions and potential theory. *Ark. Mat.* 5, 55-84 (1963). (M. G. Arsove) 29 #2425

A connection between α-capacity and L^p-classes of differentiable functions. *Ark. Mat.* 5 331-341 (1963/65). (N. du Plessis (Zbl 135, 324)) 36 #417

Regularity properties of the equilibrium distribution. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 71-90. (Guy Johnson) 34 #4531

On the existence of boundary values of a class of Beppo Levi functions. *Trans. Amer. Math. Soc.* 120 (1965), 510-525. (J. C. Bradford) 32 #5911

Existence and properties of Riesz potentials satisfying Lipschitz conditions. *Math. Scand.* 19 (1966), 151-160. (H. Bauer) 35 #6856

(See also Carleson, Lennart, 37 #1576)

Hausdorff measures and generalized differentiation. *Math. Ann.* 183 (1969), 275-286. (S. J. Taylor) 40 #5800

Riesz potentials, k, p-capacity, and p-modules. *Michigan Math. J.* 18 (1971), 257-263. (H. L. Jackson) 44 #6989

Wallin, N. O.

A problem for elliptic partial differential operators defined on an arbitrary open set. *Math. Scand.* 9 (1961), 185-196. (H. F. Weinberger) 29 #361

Wallingford, J. S.

(with Melvin, M. A.) Orbits in a magnetic universe. *J. Mathematical Phys.* 7 (1966), 333-340. (B. Carter) 32 #9022

Wallis, G.

(with Sauer, K.) Eine Äquivalenzbedingung für Boltzmann- und **Fokker**-Planck-Stossintegrale in Momentengleichungen. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 17-21. (R. J. Rubin) 36 #1172

Wallis, Jennifer

(with Wallis, W. D.) Equivalence of Hadamard matrices. *Israel J. Math.* 7 (1969), 122-128. (G. F. Clements) 40 #2561

A class of Hadamard matrices. *J. Combinatorial Theory* 6 (1969), 40-44. (G. Szekeres) 38 #3163

A note of a class of Hadamard matrices. *J. Combinatorial Theory* 6 (1969), 222-223. (G. Szekeres) 38 #4337

Two new block designs. *J. Combinatorial Theory* 7 (1969), 369-370. (R. G. Stanton) 40 #7133

Hadamard designs. *Bull. Austral. Math. Soc.* 2 (1970), 45-54. (L. D. Baumert) 41 #3304

A résumé of some recent results on Hadamard matrices, (v, k, λ)-graphs and block designs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta.,* 1969*), pp.* 463-466. *Gordon and Breach, New York,* 1970. (From the author's introduction) 41 #8256

(v, k, λ) configurations and Hadamard matrices. *J. Austral. Math. Soc.* 11 (1970), 297-309. (J. J. Seidel) 42 #5822

Integer matrices obeying generalized incidence equations. *Bull. Austral. Math. Soc.* 4 (1971), 51-56. (R. A. Brualdi) 43 #72

Some (1, -1) matrices. *J. Combinatorial Theory Ser. B* 10 (1971), 1-11. (R. C. Mullin) 43 #6113

Amicable Hadamard matrices. *J. Combinatorial Theory Ser. A* 11 (1971), 296-298. (J. J. Seidel) 44 #3895

On integer matrices obeying certain matrix equations. *J. Combinatorial Theory Ser. A* 12 (1972), 112-118. (J. J. Seidel) 44 #4020

Wallis, John

(See Kramar, F. D., 32 #1094, 37 #14; Scriba, Christoph J., 40 #1241, 40 #5398; and Nikonova, T. F., 42 #11)

Wallis, Kenneth F.

(with Nerlove, Marc) Use of the Durbin-Watson statistic in inappropriate situations. *Econometrica* 34 (1966), 235-238. (W. Freiberger) 34 #8599

Wallis, N. A. M.

(with Hewit, J. R.) A sequential steepest descent method for linear system identification. *Internat. J. Systems Sci.* 1 (1970), *no.* 2, 123-131. (Authors' summary) 42 #2643

Wallis, Richard F.

(with Gazis, D. C.) Lattice vibrational waves in cubic crystal plates. (German summary) *Acta Mech.* 1 (1965), 253-264. (R. M. Morris) 32 #8592

Wallis, W. D.

A reduction of the problem of semisimplicity. *J. Algebra* 10 (1968), 501-502. (O. Nagai) 38 #253

Certain graphs arising from Hadamard matrices. *Bull. Austral. Math. Soc.* 1 (1969), 325-331. (J. J. Seidel) 41 #5229

On the relationship between graphs and partially balanced incomplete block designs. *Bull. Austral. Math. Soc.* 1 (1969), 425-430. (Author's summary) 41 #87

(with Wallis, Jennifer) Equivalence of Hadamard matrices. *Israel J. Math.* 7 (1969), 122-128. (G. F. Clements) 40 #2561

Generalizations of stability. *J. Algebra* 13 (1969), 481-485. (S. B. Conlon) 40 #5751

Factor ideals of some representation algebras. *J. Austral. Math. Soc.* 9 (1969), 109-123. (H. K. Farahat) 39 #5723

Decomposition of representation algebras. *J. Austral. Math. Soc.* 10 (1969), 395-402. (S. B. Conlon) 41 #367

On extreme tournaments. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 403-404. (J. W. Moon) 42 #2974

(with Conlon, S. B.) The identy of certain representation algebra decompositions. *Bull. Austral. Math. Soc.* 3 (1970), 73-74. (T.-Y. Lam) 42 #7795

A note on quasi-symmetric designs. *J. Combinatorial Theory* 9 (1970), 100-101. (L. D. Baumert) 41 #1174

A non-existence theorem for (v, k, λ)-graphs. *J. Austral. Math. Soc.* 11 (1970), 381-383. (H. A. Jung) 42 #1706

Some non-isomorphic graphs. *J. Combinatorial Theory* 8 (1970) 448-449. (Author's summary) 42 #5844

The existence of non-isomorphic design graphs. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Application (Univ. North Carolina, Chapel Hill, N. C.,* 1970*), pp.* 478-483. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (T. Storer) 42 #4420

(with Mullin, R. C.) On the existence of Room squares of order $4n$. *Aequationes Math.* 6 (1971), 306-309. (H. B. Mann) 44 #6516

Construction of strongly regular graphs using affine designs. *Bull. Austral. Math. Soc.* 4 (1971), 41-49. (A. Gewirtz) 43 #1861 (E)

Wallisser, Rolf

Zur Approximation algebraischer Zahlen durch arithmetisch charakterisierte algebraische Zahlen. *Arch. Math. (Basel)* 20 (1969), 384-391. (J. Popken) 41 #156

Verallgemeinerte ganze ganzwertige Funktionen vom Exponentialtypus. *J. Reine Angew. Math.* 235 (1969), 189-206. (C. R. Deeter) 39 #5797

Zur Transzendenz der Werte der Exponentialfunktion. *Monatsh. Math.* 73 (1969), 449-460. (J. Popken) 41 #1654

Einige Sätze Über nichtfortsetzbare Potenzreihen. *Math. Z.* 113 (1970), 61-67. (P. Zinterhof) 42 #512

Wallström, Bengt

A distribution model for telephone traffic with varying call intensity, including overflow traffic. (French, Spanish and German summaries) *Ericsson Technics* 20 (1964), 183-202. (L. Takács) 30 #2574

Walöen, Age

Asymmetrical loading of conical shells. *Kungl. Tekn. Högsk. Handl. Stockholm No.* 218 (1963), 34 *pp.* (R. P. Hordgren) 31 #1816

Walowit, J.

(with Tsao, S.; DiPrima, R. C.) Stability of flow between arbitrarily spaced concentric cylindrical surfaces including the effect of a radial temperature gradient. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 585-593. (F. E. Bisshopp) 31 #986

Walser, Mackenzie

(with Duncan, David B.) Multiple regression combining within- and between-plot information. *Biometrics* 22 (1966), 26-43. (S. R. Searle) 33 #6765

Walser, Willi

* Bayes Entscheidungsverfahren und optimale Prämienstufensysteme in der Versicherungsmathematik. Inaugural-Dissertation zur Erlangung der Philosophischen Doktorwürde vorgelegt der Philosophischen Fakultät II der Universität Zürich. *Univ. Zürich, Zürich,* 1967. 2 *pp.* (V. Fabian) 38 #2871

Walsh, B. J.

(with Loeb, Peter A.) The equivalence of Harnack's principle and Harnack's inequality in the axiomatic system of Brelot. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 2, 597-600. (M. Brelot) 32 #7773

Banach algebras of scalar-type elements. *Proc. Amer. Math. Soc.* 16 (1965), 1167-1170. (A. B. Simon) 32 #4563

Structure of spectral measures on locally convex spaces. *Trans. Amer. Math. Soc.* 120 (1965), 295-326. (R. G. Bartle) 33 #4690

(with Loeb, Peter A.) Nuclearity in axiomatic potential theory. *Bull. Amer. Math. Soc.* 72 (1966), 685-689. (G. Mokobodzki) 35 #407

Spectral decomposition of quasi-Montel spaces. *Proc. Amer. Math. Soc.* 17 (1966), 1267-1271. (R. G. Bartle) 34 #4914

(with Bear, H. S.) Integral kernel for one-part function spaces. *Pacific J. Math.* 23 (1967), 209-215. (F. Cunningham, Jr.) 36 #6643

(with Loeb, Peter A.) A maximal regular boundary for solutions of elliptic differential equation. (French summary) *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 1, 283-308, vi. (R. Scozzafava) 39 #4423

} On characterizing Köthe sequence spaces as vector lattices. *Math. Ann.* 175 (1968), 253-256. (A. Pietsch) 36 #5658

Maximal linear mappings and smooth selection of measures on Choquet boundaries. *Michigan Math. J.* 15 (1968), 51-60. (L. Bungart) 37 #466

Flux in axiomatic potential theory. II: Duality. (French summary) *Ann. Inst. Fourier (Grenoble)* 19 (1969), *fasc.* 2, 371-417 (1970). (R. M. Hervé) 42 #2023

Perturbation of harmonic structures and an index-zero theorem. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 1, 317-359. (R. M. Hervé) 43 #554

Flux in axiomatic potential theory. I. Cohomology. *Invent. Math.* 8 (1969), 175-221. (R. M. Hervé) 42 #532

Spaces of continuous functions characterized by kernel-like conditions. *Math. Z.* 109 (1969), 71-86. (J. Köhn) 39 #4654

Mutual absolute continuity of sets of measures. *Proc. Amer. Soc.* 29 (1971), 506-510. (W. Hackenbroch) 43 #4998

Walsh, G. R.

Time-optimal rotational motion. *J. Engrg. Math.* 3 (1969), 95-101. (Author's summary) 40 #1174

Walsh, J. E.

(with Reid, J. K.) An elliptic eigenvalue problem for a reentrant region. *J. Soc. Indust. Appl. Math.* 13 (1965), 837-850. (W. Wasow) 31 #6392

Walsh, John B.

A note on uniform convergence of stochastic processes. *Proc. Amer. Math. Soc.* 18 (1967), 129-132. (L. A. Shepp) 34 #3640

Probability and a Dirichlet problem for multiply superharmonic functions. (French summary) *Ann. Inst. Fourier (Grenoble)* 18 (1968), *fasc.* 2, 221-279, vii (1969). (H. P. McKean, Jr.) 41 #1121

Continuity of envelopes of plurisubharmonic functions. *J. Math. Mech.* 18 (1968/69), 143-148. (Y. Kusunoki) 37 #3049

(with Chung, K. L.) To reverse a Markov process. *Acta Math.* 123 (1969), 225-251. (L. L. Helms) 41 #2761

The Martin boundary and completion of Markov chains. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 169-188. (G. E. Denzel) 43 #1280

Some remarks on the Feller property. *Ann. Math. Statist.* 41 (1970), 1672-1683. (J. R. Kinney) 42 #5328

Time reversal and the completion of Markov processes. *Invent. Math.* 10 (1970), 57-81. (L. L. Helms) 42 #5329

(with Weil, Michel) Temps terminaux, fonctionnelles additives et système de Lévy de processus fortement markoviens. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A888-A891. (N. H. Bingham) 43 #4125

Walsh, John E.

Bounded probability properties of Kolmogorov-Smirnov and similar statistics for discrete data. *Ann. Inst. Statist. Math.* 15 (1963), 153-158. (M. Skibinsky) 30 #3521

Use of linearized nonlinear regression for simulations involving Monte Carlo. *Operations Res.* 11 (1963), 228-235. (A. L. Nagar) 31 #1744

* Handbook of nonparametric statistics. II. Results for two and several sample problems, symmetry, and extremes. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto-London,* 1965. xxvi + 686 *pp.* (C. C. Craig) 31 #4132

(with McCulloch, A. J.) Life-testing results based on a few heterogeneous lognormal observations. *J. Amer. Statist. Assoc.* 62 (1967), 45-47. (Benjamin Epstein) 36 #1066

* Handbook of nonparametric statistics. III. Analysis of variance. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1968. xxvi + 747 *pp.* (E. S. Keeping) 38 #1767

Asymptotic independence between largest and smallest of a set of independent observations. *Ann. Inst. Statist. Math.* 21 (1969), 287-289. (Lionel Weiss) 40 #961

(with Kelleher, Grace J.) Median two-person game theory and examples of its flexibility in applications. *Austral. Comput. J.* 2 (1970), 114-116. (Authors' summary) 42 #4215

Generally applicable solutions for two-person median game theory. *J. Operations Res. Soc. Japan* 13 (1970), 1-5. (W. F. Lucas) 42 #7294

Identification of situations where cooperation is preferable to use of median game theory. *Opsearch* 7 (1970), 89-95. (L. A. Petrosyan) 44 #1449

Walsh, Joseph L.

* Interpolation and approximation by rational functions in the complex domain. Third edition. American Mathematical Society Colloquium Publications, Vol. XX. *American Mathematical Society, Providence, R. I.,* 1960. x + 398 *pp.* (J. Wermer) 36 #1672a

* Интерполяция и аппроксимация рациональными функциями в комплексной области. (Russian) [Interpolation and approximation by rational functions in the complex domain]. Translated from the English by A. A. Gončar' and S. Ja. Havinson. With a foreword by S. N. Mergeljan. *Izdat. Inostran. Lit., Moscow,* 1961. 508 *pp.* (Editors) 36 #1671

A sequence of rational functions with application to approximation by bounded analytic functions. *Duke Math. J.* 30 (1963), 177-189. (D. S. Greenstein) 30 #2155

(with Rubinstein, Z.) On the location of the zeros of a polynomial whose center of gravity is given. *J. Analyse Math.* 12 (1964), 129-142. (M. Marden) 29 #4877

(with Thompson, Maynard) Approximation with auxiliary conditions. *J. Math. Mech.* 13 (1964), 1015-1019. (J. L. Ullman) 30 #1253

The location of the zeros of the derivative of a rational function, revisited. *J. Math. Pures Appl.* (9) 43 (1964), 353-370. (O. Shisha) 31 #3582

The convergence of sequences of rational functions of best approximation. *Math. Ann.* 155 (1964), 252-264. (W. H. J. Fuchs) 29 #1484

(with Shisha, O.) On the location of the zeros of some infrapolynomials with presecribed coefficients. *Pacific J. Math.* 14 (1964), 1103-1109. (M. Marden) 30 #232

(with Shisha, O.) Extremal polynomials and the zeros of the derivative of a rational function. *Proc. Amer. Math. Soc.* 15 (1964), 753-758. (M. Marden) 29 #4876

Surplus free poles of approximating rational functions. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 896-901. (O. Shisha) 30 #3983

(with Ahlberg, J. H.; Nilson, E. N.) Fundamental properties of generalized splines. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1412-1419. (R. A. Valentin) 36 #6846

* Interpolation and approximation by rational functions in the complex domain. Fourth edition. American Mathematical Society Colloquium Publications., Vol. XX. *American Mathematical Society, Providence, R. I.,* 1965. x + 405 *pp.* (J. Wermer) 36 #1672b

The convergence of sequences of rational functions of best approximation with some free poles. *Approximation of Functions (Proc. Sympos. General Motors Res. Lab.,* 1964*), pp.* 1-16. *Elsevier Publ. Co., Amsterdam,* 1965. (G. Meinardus) 32 #4441

Hyperbolic capacity and interpolating rational functions. *Duke Math. J.* 32 (1965), 369-379. (Ch. Pommerenke) 31 #6081

(with Ahlberg, J. H.; Nilson, E. N.) Extremal, orthogonality, and convergence properties of multidimensional splines. *J. Math. Anal. Appl.* 12 (1965), 27-48. (From the authors' introduction) 37 #661

(with Ahlberg, J. H.; Nilson, E. N.) Best approximation and convergence properties of higher-order spline approximations. *J. Math. Mech.* 14 (1965), 231-243. (Authors' introduction) 35 #5823

(with Ahlberg, J. H.; Nilson, E. N.) Convergence properties of generalized splines. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 344-350. (R. A. Valentin) 36 #6847

Geometry of the zeros of the sums of linear fractions. *Trans. Amer. Math. Soc.* 114 (1965), 30-39. (O. Shisha) 31 #3579

(with Sinclair, A.) On the degree of convergence of extremal polynomials and other extremal functions. *Trans. Amer. Math. Soc.* 115 (1965), 145-160. (M. Marden) 33 #7564

The convergence of sequences of rational functions of best approximation. II. *Trans. Amer. Math. Soc.* 116 (1965), 227-237. (G. Meinardus) 32 #6120

The convergence of approximating rational functions of prescribed type. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan,* 1965*) (Russian), pp.* 304-308. *Izdat. "Nauka", Moscow,* 1966. (T. J. Rivlin) 35 #3069

(with Russell, H. G.) Hyperbolic capacity and interpolating rational functions. II. *Duke Math. J.* 33 (1966), 275-279. (Ch. Pommerenke) 33 #1624

Approximation by polynomials: Uniform convergence as implied by mean convergence. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 20-25. (J. L. Ullman) 32 #5891

Approximation by polynomials: Uniform convergence as implied by mean convergence. II. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 1405-1407. (J. Fuka) 35 #4443

Approximation by polynomials: Uniform convergence as implied by mean convergence. III. *Proc. Nat. Acad. Sci. U.S.A.* 56 (1966), 1406-1408. (J. Fuka) 35 #4444

(with Motzkin, T. S.) Mean approximation on an interval for an exponent less than one. *Trans. Amer. Math. Soc.* 122 (1966), 443-460. (T. J. Rivlin) 34 #1769

* (with Ahlberg, J. H.; Nilson, E. N.) The theory of splines and their applications. *Academic Press, New York-London,* 1967. xi + 284 *pp.* (T. J. Rivlin) 39 #684

An extension of the generalized Bernstein lemma. *Colloq. Math.* 16 (1967), 91-92. (Y. Komatu) 35 #6844

Best approximation by rational functions and by meromorphic functions with some free poles. *J. Analyse Math.* 18 (1967), 359-375. (W. H. J. Fuchs) 36 #1673

On the convergence of sequences of rational functions. *SIAM J. Numer. Anal.* 4 (1967), 211-221. (L. Alpár) 36 #1675

(with Ahlberg, J. H.; Nilson, E. N.) Complex cubic splines. *Trans. Amer. Math. Soc.* 129 (1967), 391-413. (A. Meir) 36 #573

Note on classes of functions defined by integrated Lipschitz conditions. *Bull. Amer. Math. Soc.* 74 (1968), 344-346. (R. B. Burckel) 36 #2807

(with Ahlberg, J. H.; Nilson, E. N.) Cubic splines on the real line. *J. Approximation Theory* 1 (1968), *no.* 1, 5-10. (J. W. Jerome) 37 #6650

Degree of approximation by rational functions and polynomials. *Michigan Math. J.* 15 (1968), 109-110. (J. L. Fields) 36 #6845

(with Motzkin, T. S.) A persistent local maximum of the pth power deviation on an interval, $p < 1$. *Pacific J. Math.* 24 (1968), 133-142. (T. J. Rivlin) 38 #4868

The convergence of sequences of rational functions of best approximation. III. *Trans. Amer. Math. Soc.* 130 (1967), 167-183. (V. P. Havin) 36 #1674

Approximation by bounded analytic functions: Uniform convergence as implied by mean convergence. *Trans. Amer. Math. Soc.* 130 (1968), 406-413. (R. P. Boas, Jr.) 36 #3997

Note on approximation by bounded analytic functions, problem α: General configurations. *Aequationes Math..* 3 (1969), 160-164. (O. Shisha) 41 #5632

Inequalities expressing degree of convergence of rational functions. *J. Approximation Theory* 2 (1969), 160-166. (E. J. Akutowicz) 39 #7115

(with Ahlberg, J. H.; Nilson, E. N.) Properties of analytic splines. I. Complex polynomial splines. *J. Math. Anal. Appl.* 27 (1969), 262-278. (P. J. Laurent) 42 #8136

(with Saff, E. B.) Extensions of D. Jackson's theorem on best complex polynomial mean approximation. *Trans. Amer. Math. Soc.* 138 (1969), 61-69. (T. Kövari) 39 #3001

(with Rubinstein, Zalman) Extension and some applications of the coincidence theorems. *Trans. Amer. Math. Soc.* 146 (1969), 413-427. (J. L. Fields) 40 #4428

(with Schneider, W. J.) On the shape of the level loci of harmonic measure. *J. Analyse Math.* 23 (1970), 441-460. (Z. Rubinstein) 42 #6205

Approximation by rational functions: Open problems. *J. Approximation Theory* 3 (1970), 236-242. (E. B. Saff) 43 #538

Note on degree of convergence of sequences of rational functions of prescribed type. *Proc. Nat. Acad. Sci., U.S.A.* 67 (1970), 1188-1191. (J. L. Fields) 42 #4748

(with Ahlberg, J. H.; Nilson, E. N.) Complex polynomial splines on the unit circle. *J. Math. Anal. Appl.* 33 (1971), 234-257. (M. Marsden) 43 #3696

(with Aharonov, D.) Some examples in degree of approximation by rational functions. *Trans. Amer. Math. Soc.* 159 (1971), 427-444. (E. B. Saff) 44 #6974

Walsh, Philip J.

* (with Hilsenrath, Joseph; Ziegler, Guy G.; Messina, Carla G.; Herbold, Robert J.) OMNITAB: A computer program for statistical and numerical analysis. National Bureau of Standards Handbook 101. *Superintendent of Documents, U.S. Government Printing Office, Washington, D. C.,* 1966. viii + 256 *pp.* (M. Muller) 34 #8675

Walsh, Robert A.

Initial value problems associated with $u_t(x, t) = \delta u_{xx}(x, t) - u(x, t)u_x(x, t)$. *J. Math. Anal. Appl.* 26 (1969), 235-247. (K. Hawlitschek) 38 #6251

Walsh, T.

On weighted norm inequalities for fractional and singular integrals. *Canad. J. Math.* 23 (1971), 907-928. (A. C. Zaanen) 44 #4592

On the existence of double singular integrals for kernels without smoothness. *Proc. Amer. Math. Soc.* 28 (1971), 439-445. (L. Artiaga) 43 #2578

On L^p estimates for integral transforms. *Trans. Amer. Math. Soc.* 155 (1971), 195-215. (P. G. Rooney) 44 #2104

Walston, D. E.

(with Waddell, E. R.) Accelerating convergence of one-step methods for the numerical solution of ordinary differential equations. *Internat. J. Comput. Math.* 2 (1968), 23-33. (K. Frankowski) 39 #7820

Walstrom, John E.

(with Berg, Murray) Prime primes. *Math. Mag.* 42 (1969), 232. (J. M. Gandhi) 40 #7187

van der Walt, A. P. J.

Prime ideals and nil radicals in near-rings. *Arch. Math.* 15 (1964), 408-414. (W. G. Lister) 30 #3900

On the Levitzki nil radical. *Arch. Math.* 16 (1965), 22-24. (Rimhak Ree) 31 #2278

Rings with dense quasi-centre. *Math. Z.* 97 (1967), 38-44. (M. F. Smiley) 34 #7570

(with Heidema, J.) Contributions to the metamathematical theory of ideals. I. Domains with dense kernel. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 156-162. (D. H. Potts) 35 #5301

van der Walt, T.

* Fixed and almost fixed points. Mathematical Centre Tracts, 1. *Mathematisch Centrum, Amsterdam,* 1963. 128 *pp.* (D. G. Bourgin) 34 #5079

Walter, Gilbert G.

Expansions of distributions. *Trans. Amer. Math. Soc.* 116 (1965), 492-510. (J. L. B. Cooper) 32 #4537

Pointwise convergence of distribution expansions. *Studia Math.* 26 (1966), 143-154. (S. Łojasiewicz) 32 #8036

On real singularities of Legendre expansions. *Proc. Amer. Math. Soc.* 19 (1968), 1407-1412. (R. P. Gilbert) 41 #2285

Singular points and Hermite series. *J. Math. Anal. Appl.* 27 (1969), 495-500. (Author's review (Zbl 194, 377)) 42 #7897

Fourier series and analytic representation of distributions. *SIAM Rev.* 12 (1970), 272-276. (L. Artiaga) 41 #2385

Hermite series solutions of differential equations. *J. Differential Equations* 10 (1971), 1-16. (W. Watzlawek) 43 #3801

Singular points of Sturm-Liouville series. *SIAM J. Math. Anal.* 2 (1971), 393-401. (Z. Nehari) 44 #7030

Walter, Hans-Friedrich

Über die Multiplikation von Distributionen in einem Folgenmodell. *Math. Ann.* 189 (1970), 211-221. (G. L. Krabbe) 44 #799

Walter, Hermann

(See Hotz, Günter, 39 #5359)

(with Claus, V.) Zerlegungen von Semi-Thue-Systemen. (English summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 107-124. (J.-F. Perrot) 40 #2469

(with Schnorr, Claus-Peter) Pullbackkonstruktionen bei Semi-Thuesystemen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 27-36. (R. N. Goss) 39 #6753

Erweiterungen von linearen Automaten. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 5 (1969), 97-107. (E. G. Wagner) 41 #6632

(with Stucky, Wolffried) Minimal linear realizations of autonomous automata. *Information and Control* 16 (1970), 66-84. (A. Ádám) 43 #8467

Walter, Horst

Die 7-Punkte-Ebene und ihre Automorphismengruppe. *Math.-Phys. Semesterber.* 17 (1970), 225-232. (A. Barlotti) 42 #6705

Walter, Jaromír

Renewal models. (Czech. English summary) *Ekonom.-Mat. Obzor* 5 (1969), 137-162. (From the author's summary) 44 #6066

Walter, Johann

Symmetrie elliptischer Differentialoperatoren. *Math. Z.* 98 (1967), 401-406. (C. Clark) 35 #3246

Bemerkungen zu dem Grenzpunktfallkriterium von N. Levinson. *Math. Z.* 105 (1968), 345-350. (H. C. Howard) 37 #5458

Symmetrie elliptischer Differentialoperatoren. II. *Math. Z.* 106 (1968), 149-152. (C. Clark) 38 #413

Note on a paper by Stetkaer-Hansen concerning essential selfadjointness of Schroedinger operators. *Math. Scand.* 25 (1969). 94-96. (Teruo Ikebe) 41 #4022

Walter, John H.

(with Gorenstein, Daniel) On the maximal subgroups of finite simple groups. *J. Algebra* 1 (1964), 168-213. (W. Feit) 30 #3132

(with Gorenstein, Daniel) The characterization of finite groups with dihedral Sylow 2-subgroups. I. *J. Algebra* 2 (1965), 85-151. (John Thompson) 31 #1297a

(with Gorenstein, Daniel) The characterization of finite groups with dihedral Sylow 2-subgroups. II. *J. Algebra* 2 (1965), 218-270. (John Thompson) 31 #1297b

(with Gorenstein, Daniel) The characterization of finite groups with dihedral Sylow 2-subgroups. III. *J. Algebra* 2 (1965), 354-393. (J. G. Thompson) 32 #7634

Character theory of finite groups with trivial intersection subsets. *Nagoya Math. J.* 27 (1966), 515-524. (N. Ito) 34 #2724 (E)

Finite groups with abelian Sylow 2-subgroups of order 8. *Invent. Math.* 2 (1967), 332-376. (N. Ito) 36 #1531

Corrections to: "Character theory of finite groups with trivial intersection subsets". *Nagoya Math. J.* 30 (1967), 309. (Editors) 35 #2976

The characterization of finite groups with abelian Sylow 2-subgroups. *Ann. of Math.* (2) 89 (1969), 405-514. (D. Gorenstein 40 #2749 (with Gorenstein, Daniel) The π-layer of a finite group. *Illinois J. Math.* 15 (1971), 555-564. (J. L. Alperin) 44 #6812

Walter, Martin E.

Group duality and isomorphisms of Fourier and Fourier-Stieltjes algebras from a W^*-algebra point of view. *Bull. Amer. Math. Soc.* 76 (1970), 1321-1325. (T. R. Chow) 44 #2047

Walter, Reinhold

* Unitäre und nicht-unitäre Transformationen bei der Untersuchung von Hamiltonoperatoren der Quantenfeldtheorie. Von der Universität Stuttgart (Technische Hochschule) sur Erlangung der Würde eines Doktors der Naturwissenschaften (Dr. rer. nat.) genehmigte Abhandlung. *Universität Stuttgart (Technische Hochschule), Stuttgart,* 1969. 121 *pp.* (D. Babbitt) 42 #7202

Walter, Rolf

Über zweidimensionale parabolische Flächen im vierdimensionalen affinen Raum. I. Allgemeine Flächentheorie. *J. Reine Angew. Math.* 227 (1967), 178-208. (R. Roşca) 35 #7223

Über zweidimensionale parabolische Flächen im vierdimensionalen affinen Raum. II. Spezielle Flächen. *J. Reine Angew. Math.* 228 (1967), 71-92. (R. Roşca) 36 #2070

Zur projektiven Kinematik konjugierter Systeme des *n*-dimensionalen Raumes. *Arch. Math. (Basel)* 19 (1968), 313-324. (K. Strubecker) 37 #4729

Über Grenzübergänge in der Differentialgeometrie. *Math. Z.* 104 (1968), 337-348. (K. Strubecker) 37 #2110

Zur allgemeinen und projektiven Kinematik einparametriger Ebenenscharen. *Math. Z.* 110 (1969), 339-374. (R. Roşca) 40 #842

(with Barner, Martin) Zur projektiven Differentialgeometrie der Regelflächen im vierdimensionalen Raum. *Math. Nachr.* 41 (1969), 191-211. (P. Scherk) 41 #6066

Kennzeichnung projektiver Abbildungsscharen, die mit Unterraumscharen des *n*-dimensionalen Raumes verknüpft sind. (English summary) *Manuscripta Math.* 4 (1971), 319-340. (R. Roşca) 44 #7448

Walter, W. L.

* Differential- und Integral-Ungleichungen und ihre Anwendung bei Abschätzungs- und Eindeutigkeits-problemen. Springer Tracts in Natural Philosophy, Vol. 2. *Springer-Verlag, Berlin-New York,* 1964. xiii + 269 *pp.* (C. Corduneanu) 30 #2302

Bemerkungen zu verschiedenen Eindeutigkeitskriterien für Gewöhnliche Differentialgleichungen. *Math. Z.* 84 (1964), 222-227. (C. Olech) 29 #4948

Über sukzessive Approximation bei Volterra-Integralgleichungen in mehreren Veränderlichen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 345 (1965), 32 *pp.* (C. R. DePrima) 34 #1815

On the non-existence of maximal solutions for hyperbolic differential equations. *Ann. Polon. Math.* 19 (1967), 307-311. (D. Ludwig) 38 #420

On nonlinear Volterra integral equations in several variables. *J. Math. Mech.* 16 (1967), 967-985. (A. K. Aziz) 35 #4696

Das wissenschaftliche Werk von Erich Kamke. *Jber. Deutsch. Math.-Verein.* 69, *Heft* 4, *Abt.* 1, 193-205 (1967/68). (Editors) 37 #2571

Bemerkungen zu Iterationsverfahren bei linearen Gleichungssystemen. *Numer. Math.* 10 (1967), 80-85. (A. R. Mitchell) 35 #7569

Ein Existenzbeweis für nichtlineare parabolische Differentialgleichungen aufgrund der Linienmethode. *Math. Z.* 107 (1968), 173-188. (R. Barrar) 39 #3162

Wärmeleitung in Systemen mit mehreren Komponenten. *Numerische Mathematik. Differential-gleichungen. Approximationstheorie (Tagungen, Obersolfach, 1966), pp.* 177-185. *Birkhäuser, Basel,* 1968. (A. O. Garder, Jr.) 42 #2699

Die Linienmethode bei nichtlinearen parabolischen Differentialgleichungen. *Numer. Math.* 12 (1968), 307-321. (G. W. Hedstrom) 39 #3725

Approximation für das Cauchy-Problem bei parabolischen Differentialgleichungen mit der Linienmethode. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach, 1968), pp.* 375-386. *Birkhäuser, Basel,* 1969. (Gilbert Strang) 41 #2954

Gewöhnliche Differential-Ungleichungen im Banachraum. *Arch. Math. (Basel)* 20 (1969), 36-47. (G. H. Meyer) 39 #5908

Existenzsätze im Großen für das Cauchyproblem bei nichtlinearen parabolischen Differentialgleichungen mit der Linienmethode. *Math. Ann.* 183 (1969), 254-274. (L. E. Payne) 40 #7625

* Differential and integral inequalities. Translated from the German by Lisa Rosenblatt and Lawrence Shampine. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 55. *Springer-Verlag, New York-Berlin,* 1970. x + 352 *pp.* (From the preface) 42 #6391

Über die Eindeutigkeitsbedingung von Krasnosel'skii-Kreĭn bei hyperbolischen Differentialgleichungen. *Ann. Polon. Math.* 23 (1970/71), 117-124. (J. S. W. Wong) 42 #8054

On the asymptotic behavior of solutions of the Prandtl boundary layer equations. *Indiana Univ. Math. J.* 20 (1970/71), 829-841. (E. J. Watson) 43 #7123

There is an elementary proof of Peano's existence theorem. *Amer. Math. Monthly* 78 (1971), 170-173. (D. A. Lutz) 43 #2268

(with Lasota, Andrzej; Strauss, Aaron) Infinite systems of differential inequalities defined recursively. *J. Differential Equations* 9 (1971), 93-107. (J. W. Bebernes) 43 #664

Walter of Odington

(See North, John David, 42 #7466)

Walters, A.

(with Summersbee, S.) Programming the functions of formal logic. II. Multi-valued logics. *Notre Dame J. Formal Logic* 4 (1963), 293-305. (B. A. Galler) 29 #4673

Walters, G. E.

(with Lerner, E. C.; Huang, H. W.) Some mathematical properties of oscillator phase operators. *J. Mathematical Phys.* 11 (1970), 1679-1684. (H. Wakita) 41 #4973

Walters, Jerry A.

Nonnegative matrix equations having positive solutions. *Math. Comp.* 23 (1969), 827. (Author's summary) 41 #2911

Walters, Ken

Non-Newtonian effects in some general elastico-viscous liquids. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp.* 507-519. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (M. N. L. Narasimhan) 29 #4389

(with Thomas, R. H.) The stability of elastico-viscous flow between rotating cylinders. II. *J. Fluid Mech.* 19 (1964), 557-560. (D. W. Dunn) 29 #5485

(with Beard, D. W.) Elastico-viscous boundary-layer flows. I. Two-dimensional flow near a stagnation point. *Proc. Cambridge Philos. Soc.* 60 (1964), 667-674. (K. R. Enkenhus) 30 #1706

(with Thomas, R. H.) On the flow of an elastico-viscous liquid in a curved pipe of elliptic cross-section under a pressure-gradient. *J. Fluid Mech.* 21 (1965), 173-182. (M. N. L. Narasimhan) 30 #2802

(with Waters, Neville D.) A note on the formulation of simple equations of state for elastico-viscous liquids. (French summary) *Z. Angew. Math. Phys.* 14 (1963), 742-745. (B. D. Coleman) 30 #4462

(with Chan Man Fong, C. F.) The solution of flow problems in the case of materials with memory. II. The stability of plane Poiseuille flow of slightly viscoelastic liquids. *J. Mecanique* 4 (1965), 439-453. (W. P. Graebel) 32 #8652

(with Beard, D. W.; Davies, M. H.) The stability of elastico-viscous flow between rotating cylinders. III. Overstability in viscous and Maxwell fluids. *J. Fluid Mech.* 24 (1966), 321-334. (D. W. Dunn) 33 #2069

Walters, Lillie C.

(with Wait, James R.) Numerical calculations for reflection of electromagnetic waves from a lossy magnetoplasma. *Nat. Bur. Standards Tech. Note No.* 205 (1963), iii + 21 *pp.* (Y. Hayashi) 30 #4475

Walters, Peter

On the relationship between zero entropy and quasi-discrete spectrum for affine transformations. *Proc. Amer. Math. Soc.* 18 (1967), 661-667. (R. V. Chacon) 35 #3038

Topological conjugacy of affine transformations of tori. *Trans. Amer. Math. Soc.* 131 (1968), 40-50. (R. P. Hunter) 37 #336

Rotts of *n* : 1 measure-preserving transformations. *J. London Math. Soc.* 44 (1969), 7-14. (E. S. Boylan) 38 #1236

(with Bryant, B. F.) Asymptotic properties of expansive homeomorphisms. *Math. Systems Theory* 3 (1969), 60-66. (W. L. Reddy) 39 #4826

Topological conjugacy of affine transformations of compact abelian groups. *Trans. Amer. Math. Soc.* 140 (1969), 95-107. (W. Parry) 39 #1631

(with Parry, William) Minimal skew-product homeomorphisms and coalescence. *Compositio Math.* 22 (1970), 283-288. (W. L. Reddy) 42 #5247

Anosov diffeomorphisms are topologically stable. *Topology* 9 (1970), 71-78. (E. A. Feldman) 40 #8069

Walters, R. F. C.

Alternative derivation of some regular continued fractions. *J. Austral. Math. Soc.* 8 (1968), 205-212. (A. Magnus) 37 #1835

An alternative approach to universal algebra. *Reports of the Midwest Category Seminar, III, pp.* 64-73. *Springer, Berlin,* 1969. (D. Pumplün) 41 #5452

(with Matthews, K. R.) Some properties of the continued fraction expansion of $(m/n)e^{1/q}$. *Proc. Cambridge Philos. Soc.* 67 (1970), 67-74. (A. Magnus) 40 #6104

Walters, T. S.

The effect of diffusion in the mean wind direction in atmospheric turbulence. *Mathematika* 11 (1964), 119-124. (K. M. Ghosh) 30 #5797

(with Jones, John R.) Oscillatory motion of an elastico-viscous liquid contained between two concentric spheres. *Mathematika* 13 (1966), 83-89. (E. G. Broadbent) 33 #5216

Walther, Adriaan

(with O'Neill, Edward L.) The question of phase in image formation. (French and German summaries) *Optica Acta* 10 (1963), 33-40. (E. W. Marchand) 29 #889

The question of phase retrieval in optics. (French and German summaries) *Optica Acta* 10 (1963), 41-49. (E. W. Marchand) 29 #890

Walther, Hansjoachim

Über reguläre Graphen gegebener Taillenweite mit minimaler Knotenpunktzahl. *Wiss. Z. Techn. Hochsch. Ilmenau* 11 (1965), 93-96. (H. Sachs) 32 #7455

Ein kubischer, planarer, zyklisch fünffach zusammenhängender Graph, der keinen Hamiltonkreis besitzt. *Wiss. Z. Techn. Hochsch. Ilmenau* 11 (1965), 163-166. (W. T. Tutte) 33 #70

Eigenschaften von regulären Graphen gegebener Taillenweite und minimaler Knotenpunktanzahl. *Wiss. Z. Techn. Hochsch. Ilmenau* 11 (1965), 167-168. (J. W. Moon) 32 #7456

Über die Anzahl der Knotenpunkte eines längsten Kreises in planaren, kubischen, dreifach knotenzusammenhängenden Graphen. *Studia Sci. Math. Hungar.* 2 (1967), 391-389. (F. Harary) 36 #1364

Über die Länge eines längsten Kreises in regulären Graphen beliebigen Zusammenhanges. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 427-429. (C. St. J. A. Nash-Williams) 39 #4043

Ein Satz aus der Theorie der Halbmarkoffschen Prozesse und seine Anwendung auf ein Maschinenbedienungsproblem. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 431-434. (J. R. Kinney) 39 #4942

(See also Beiträge zur Graphentheorie, 39 #2645 and Sachs, Horst, 43 #4712)

(with Lang, Rainer) Über längste Kreise in regulären Graphen. *Beiträge zur Graphentheorie (Kolloquium, Manebach, 1967), pp.* 91-98. *Teubner, Leipzig,* 1968. (H. A. Jung) 39 #6773

Über die Zerlegung des vollständigen Graphen in paare planare Graphen. *Beiträge zur Graphentheorie (Kolloquium, Manebach, 1967), pp.* 189-205. *Teubner, Leipzig,* 1968. (A. Rosa) 39 #6777

Über die Nichtexistenz eines Knotenpunktes, durch den alle längsten Wege eines Graphen gehen. *J. Combinatorial Theory* 6 (1969), 1-6. (W. Moser) 38 #4352

Über das Problem der Existenz von Hamiltonkreisen in planaren, regulären Graphen. *Math. Nachr.* 39 (1969), 277-296. (W. Moser) 41 #3315

Ungleichungen über Umfang, Flächeninhalt und Linienträgheitsmoment konvexer Kurven. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 2, 65-72. (G. D. Chakerian) 42 #6722

Über Extremalkreise in regulären Landkarten. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 139-142. (W. Imrich) 42 #4438

Über die Nichtexistenz zweier Knotenpunkte eines Graphen, die alle längsten Kreise fassen. *J. Combinatorial Theory* 8 (1970), 330-333. (Author's summary) 40 #5490

(with Lang, R.) Über die Anzahl der Knotenpunkte eines längsten Weges in planaren, kubischen, dreifach zusammenhängenden Graphen. *Studia Sci. Math. Hungar.* 5 (1970), 221-228. (W. T. Tutte) 44 #5241

(with Kaiser, Elisabeth) Eine Bemerkung zu einer Arbeit von M. E. Watkins über verallgemeinerte Petersensche Graphen. *J. Combinatorial Theory Ser. B* 11 (1971), 227-233. (J. W. Moon) 44 #2662

Walther, W.

(with Grimm, C. A.) Transform methods for difference equations. *Amer. Math. Monthly* 72 (1965), 747-750. (T. Fort) 32 #1465

Waltman, Paul E.

A bifurcation theorem. *Proc. Amer. Math. Soc.* 15 (1964), 627-631. (W. R. Utz) 29 #1384

On the asymptotic behavior of solutions of a nonlinear equation. *Proc. Amer. Math. Soc.* 15 (1964), 918-923. (Z. Nehari) 31 #445

(with Hanson, D. L.) A note on a functional equation. *J. Math. Anal. Appl.* 10 (1965), 330-333. (A. Haimovici) 30 #4079

An oscillation criterion for a nonlinear second order equation. *J. Math. Anal. Appl.* 10 (1965), 439-441. (W. R. Utz) 30 #3265

On the asymptotic behavior of solutions of an *n*th order equation. *Monatsh. Math.* 69 (1965), 427-430. (Z. Nehari) 32 #2686

(with Bailey, Paul) Existence and uniqueness of solutions of the first boundary value problem for nonlinear second order differential equations. *Arch. Rational Mech. Anal.* 21 (1966), 310-320. (W. J. Coles) 33 #6009b

(with Bailey, Paul; Shampine, Lawrence F.) Existence and uniqueness of solutions of the second order boundary value problem. *Bull. Amer. Math. Soc.* 72 (1966), 96-98. (W. J. Coles) 32 #1392

(with Bailey, Paul; Shampine, Lawrence F.) The first and second boundary value problems for nonlinear second order differential equations. *J. Differential Equations* 2 (1966), 399-411. (T. L. Sherman) 34 #7871

(with Bailey, Paul) On the distance between consecutive zeros for second order differential equations. *J. Math. Anal.* 14 (1966), 23-30. (W. J. Coles) 33 #6009a

(with Bailey, Paul; Shampine, Lawrence F.) Nonlinear second order boundary value problems: Existence and regions of uniqueness. *J. Math. Anal. Appl.* 14 (1966), 433-444. (S. P. Diliberto) 32 #5969

Oscillation criteria for third order nonlinear differential equations. *Pacific J. Math.* 18 (1966), 385-389. (T. L. Sherman) 34 #422

Distance between zeros of components of solutions of second-order nonlinear systems. *J. Math. Anal. Appl.* 17 (1967), 502-507. (T. L. Sherman) 34 #7875

(Utz, W. R.) Asymptotic almost periodicity of solutions of a system of differential equations. *Proc. Amer. Math. Soc.* 18 (1967), 597-601. (R. A. Struble) 35 #3159

* (with Bailey, Paul B.; Shampine, Lawrence F.) Nonlinear two point boundary value problems. Mathematics in Science and Engineering, Vol. 44. *Academic Press, New York-London,* 1968. xiv + 171 *pp.* (W. M. Whyburn) 37 #6524

(with Robertson, Tim) On estimating monotone parameters. *Ann. Math. Statist.* 39 (1968), 1030-1039. (A. Fuchs) 37 #5970

A note on an oscillation criterion for an equation with a functional argument. *Canad. Math. Bull.* 11 (1968), 593-595. (H. C. Howard) 38 #6193

A nonlinear boundary value problem. *J. Differential Equations* 4 (1968), 597-603. (P. B. Bailey) 37 #6528

Existence and uniqueness of solutions to a nonlinear boundary value problem. *J. Math. Mech.* 18 (1968), 585-586. (H. K. Willson) 38 #3504

(with Grimmer, R. C.) A comparison theorem for a class of nonlinear differential inequalities. *Monatsh. Math.* 72 (1968), 133-136. (J. W. Bebernes) 37 #3165

(with Fennell, Robert) Boundary value problems for functional differential equations. *Bull. Amer. Math. Soc.* 75 (1969), 487-489. (Editors) 39 #1771

(with Fennell, Robert) A boundary value problem for a system of nonlinear functional differential equations. *J. Math. Anal. Appl.* 26 (1969), 447-453. (J. Kato) 38 #6185

(with Schrader, Keith) An existence theorem for nonlinear boundary value problems. *Proc. Amer. Math. Soc.* 21 (1969), 653-656. (J. W. Heidel) 39 #533

(with Hoppensteadt, Frank) A problem in the theory of epidemics. *Math. Biosci.* 9 (1970), 71-91. (S. P. Hastings) 44 #7083

Existence and uniqueness of solutions of boundary value problems for two dimensional systems of nonlinear differential equations. *Trans. Amer. Math. Soc.* 153 (1971), 223-239. (J. W. Heidel) 42 #3347

(with Wong, James S. W.) Two point boundary value problems for nonlinear functional differential equations. *Trans. Amer. Math. Soc.* 164 (1972), 39-54. (R. Yoshizawa) 44 #4333

Waltmann, William L.

(with Lambert, Robert J.) *T*-algorithm for tridiagonalization. *J. Soc. Indust. Appl. Math.* 13 (1965), 1069-1078. (James H. Wilkinson) 32 #6661

Walton, R. A.

A criterion for Dedekind domains. *J. London Math. Soc.* (2) 3 (1971), 539-543. (T. Tamura) 44 #195

Walton, T. H.

A counter-example in dimension theory. *Fund. Math.* 61 (1967/68), 309-311. (R. F. Williams) 37 #894

Walukiewicz, Stanisław

An algebraic criterion for the existence of the Hamilton path in a finite graph. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 16 (1971), 135-144. (B. Zelinka) 44 #2659

Walum, H.

(with Chowla, S.) On the divisor problem. *Proc. Sympos. Pure Math., Vol. VIII, pp.* 138-143. *Amer. Math. Soc., Providence, R. I.,* 1965. (H. W. Brinkmann) 30 #4733

Some averages of character sums. *Pacific J. Math.* 16 (1966), 189-192. (H. W. Brinkmann) 32 #7521

(with Ayoub, R.; Chowla, S.) On sums involving quadratic characters. *J. London Math. Soc.* 42 (1967), 152-154. (H. Gupta) 34 #4224

Walvekar, Arun G.—

(with De Cicco, John) A polygenic extension of the polynomials of Bernoulli and Euler. *Rev. Un. Mat. Argentina* 24 (1968/69), 143-154. (A. G. Law) 42 #7961

(with DeCicco, John) Some monogeneity conditions relative to the second derivative of a polygenic function with respect to a polygenic function. *Collect. Math.* 20 (1969), 199-206. (M. O. Gonzalez) 42 #7871

Walz, Alfred

Compressible turbulent boundary layers (with discussion). (French summary) *Mécanique de la Turbulence (Marseille, 1961), pp.* 299-352. *Éditions Centre Nat. Recherche Sci., Paris,* 1962. (L. S. G. Kovasznay) 29 #6750

Nouveaux aspects et résultats de la théorie approchée des couches limites laminaire et turbulente. *Publ. Sci. Tech. Ministère de l'Air (Paris) Notes Tech. No.* 129, *Paris,* 1963, 115-122. (C. Comstock) 31 #2925

Wamsley, J. W.

The multiplicator of finite nilpotent groups. *Bull. Austral. Math. Soc.* 3 (1970), 1-8. (K. W. Weston) 42 #7760

A class of three-generator, three-relation, finite groups. *Canad. J. Math.* 22 (1970), 36-40. (J. Mennicke) 42 #7761

(with Johnson, D. L.) Minimal relations for certain finite *p*-groups. *Israel J. Math.* 8 (1970), 349-356. (Hanna Neumann) 42 #4622

The deficiency of metacyclic groups. *Proc. Amer. Math. Soc.* 24 (1970), 724-726. (J. F. Ledlie) 41 #3576

Minimal presentations for certain group extensions. *Israel J. Math.* 9 (1971), 459-463. (A. I. Moskalenko) 43 #4922

On a condition for commutativity of rings. *J. London Math. Soc.* (2) 4 (1971), 331-332. (E. H. Batho) 44 #6758

Wan, F. Y. M.

(with Reissner, E.) Rotating shallow elastic shells of revolution. *J. Soc. Indust. Appl. Math.* 13 (1965), 333-352. (L. S. D. Morley) 33 #3528

Wan, Hee Kim. See Kim, Wan Hee.

Wan, Henry Y., Jr.

An elementary proof of the existence and uniqueness of competitive equilibrium in Graham's model of world trade. *Econometrica* 33 (1965), 238-240. (S. Ichimura) 32 #1007

Wan, San

(with LaSalle, J. P.) Optimality and strong stability of control systems. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 375-377. (R. E. Kalman) 38 #5489

Wanby, Göran

Subharmonic and strongly subharmonic functions in case of variable coefficients. *Math. Scand.* 22 (1968), 283-309 (1969). (M. Brelot) 42 #4759

Wan Cheh-hsian. See Wan Che-hsien.

Wan Che-hsien

On the structure of the quotient group of the unitary group with respect to its commutator subgroup. *Acta Math. Sinica* 12 (1962), 352-368 *(Chinese); translated as Chinese Math.* 3 (1963), 382-398. (O. H. Kegel) 29 #3547

* (with Hua Lo-keng) Tien hsing chün. (Chinese) [Group representation theory] *Shanghai Science Technology Press, Shanghai,* 1963. 529 *pp.* 34 #2715; erratum, 34, p. 1786.

* Li-tai-shu. (Chinese) [Lie algebras]. *Science Press, Peking,* 1964. vii + 300 *pp.* (C. Y. Chao) 35 #4271

(with Li Ken-tao) The two theorems of Schur on commutative matrices. *Acta Math. Sinica* 14 (1964), 143-150 *(Chinese); translated as Chinese Math.* 5 (1964), 156-164. (W. Ledermann) 29 #2274

Notes on finite geometries and the construction of PBIB designs. I. Some "Anzahl" theorems in symplectic geometry over finite fields. *Sci. Sinica* 13 (1964), 515-516. (P. Dembowski) 30 #2392a

Notes on finite geometries and the construction of PBIB designs. II. Some PBIB designs with two associate classes based on the symplectic geometry over finite fields. *Sci. Sinica* 13 (1964), 516-517. (P. Dembowski) 30 #2392b

(with Yang Pen-fu) Notes on finite geometries and the construction of PBIB designs. III. Some "Anzahl" theorems in unitary geometry over finite fields and their applications. *Sci. Sinica* 13 (1964), 1006-1007. (P. Dembowski) 30 #2392c

Studies in finite geometries and the construction of incomplete block designs. I. Some "Anzahl" theorems in symplectic geometry over finite fields. *Acta Math. Sinica* 15 (1965), 354-361 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 55-62. (P. Dembowski) 32 #6313a

Studies in finite geometries and the construction of incomplete block designs. II. Some PBIB designs based on symplectic geometry over finite fields. *Acta Math. Sinica* 15 (1965), 362-371 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 63-73. (P. Dembowski) 32 #6313b

(with Yang Pen-fu) Studies in finite geometries and the construction of incomplete block designs. III. Some "Anzahl" theorems in unitary geometry over finite fields and their applications. *Acta Math. Sinica* 15 (1965), 533-544 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 252-264. (P. Dembowski) 32 #6313c

Notes on finite geometries and the construction of PBIB designs. VI. Some association schemes and PBIB designs based on finite geometries. *Sci. Sinica* 14 (1965), 1872-1876. (P. Dembowski) 33 #1936

Finite geometries and the construction of incomplete block designs. VI. An association scheme with many associate classes utilizing the subspaces of a vector space over a finite field. (Chinese) *Shuxue Jinzhan* 8 (1965), 293-302. (C. C. Wu) 40 #5465

Wanders, G.

(with Auberson, G.) *N/D* equations with non-unique solutions. *Phys. Lett.* 15 (1965), 61-63. (J. M. Charap) 32 #3489

Superconvergent sum rules for pion-pion scattering. (Italian and Russian summaries) *Nuovo Cimento A* (10) 63 (1969), 108-128. (I. Aganović) 40 #3828

Wang, Alan Ping-i

Invariant imbedding and scattering processes. *J. Math. Anal. Appl.* 17 (1967), 48-60. (R. M. Redheffer) 35 #2555

On the relation of scattering matrix, Riccati equation and boundary conditions. *J. Math. Anal. Appl.* 17 (1967), 238-247. (R. M. Redheffer) 35 #2556

Discrete radiative transfer in slabs. *J. Math. Anal. Appl.* 24 (1968), 530-544. (J. H. Harris) 39 #3756

Time-dependent transport process. *J. Franklin Inst.* 287 (1969), 409-422. (Author's summary) 40 #1113

On the solutions of finite dimensional time-invariant transport equations. *J. Franklin Inst.* 288 (1969), 115-120. (L. Finkelstein) 41 #780

(with Redheffer, R. M.) Formal properties of time-dependent scattering processes. *J. Math. Mech.* 19 (1969/70), 765-781. (S. Ueno) 41 #6520

Wang, C.-C.

The principle of fading memory. *Arch. Rational Mech. Anal.* 18 (1965), 343-366. (W. Langlois) 31 #4233

A general theory of subfluids. *Arch. Rational Mech. Anal.* 20 (1965), 1-40. (A. E. Green) 31 #5404

A representation theorem for the constitutive equation of a simple material in motions with constant stretch history. *Arch. Rational Mech. Anal.* 20 (1965), 329-340. (C. Truesdell) 32 #637

On the radial oscillations of a spherical thin shell in the finite elasticity theory. *Quart. Appl. Math.* 23 (1965), 270-274. (P. D. S. Verma) 32 #4927

On the stored-energy functions of hyperelastic materials. *Arch. Rational Mech. Anal.* 23 (1966), 1-14. (A. J. A. Morgan) 34 #7094

(with Mizel, V. J.) A fading memory hypothesis which suffices for chain rules. *Arch. Rational Mech. Anal.* 23 (1966), 124-134. (M. E. Gurtin) 35 #1237

On the symmetries of certain hyperelastic simple liquid crystals. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 468-471. (Donald E. Carlson) 33 #3510

On the geometric structures of simple bodies. A mathematical foundation for the theory of continuous distributions of dislocations. *Arch. Rational Mech. Anal.* 27 (1967/68), 33-94. (M. Mişicu) 37 #4994

On the response functions of elastic materials. *Arch. Rational Mech. Anal.* 32 (1969), 331-342. (M. Mişicu) 38 #6792

On a general representation theorem for constitutive relations. *Arch. Rational Mech. Anal.* 33 (1969), 1-25. (J. W. Craggs) 39 #1162

(with Bowen, Ray M.) Acceleration waves in inhomogeneous isotropic elastic bodies. *Arch. Rational Mech. Anal.* 38 (1970), 13-45. (V. P. Madan) 41 #6443

(with Bowen, Ray M.) Corrigendum: "Acceleration waves in inhomogeneous isotropic elastic bodies". *Arch. Rational Mech. Anal.* 40 (1970/71), 403. (Editors) 42 #7131

(with Marris, A. W.) Solenoidal screw fields of constant magnitude. *Arch. Rational Mech. Anal.* 39 (1970), 227-244. (D. Lovelock) 42 #5176

Universal solutions and universal relations for some types of elastic fluid crystals. *Quart. Appl. Math.* 28 (1970/71), 57-68. (T. W. Kao) 41 #7914

Proof that all dynamic universal solutions are quasi-equilibrated. (German and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 311-314. (J. W. Craggs) 42 #7128

Wang, C. F.

(with Kane, T. R.) On the derivation of equations of motion. *J. Soc. Indust. Appl. Math.* 13 (1965), 487-492. (B. Bernstein) 34 #989

Wang, C. L.

(with Carroll, R. W.) On the degenerate Cauchy problem. *Canad. J. Math.* 17 (1965), 245-256. (S. Tersenov (RŽMat 1966 #7 B269)) 36 #489

Wang, Chia C.

Comma-free ternary triorthogonal code. *SIAM J. Appl. Math.* 17 (1969), 11-32. (Author's summary) 39 #3898

Wang, Chin-ju. See Wang Chin-ju.

Wang, Chiu-sen

(with Fan, Liang-tseng) Multi-stage optimization by the generalized discrete maximum principle. *J. Electronics Control* (1) 16 (1964), 441-450. (Authors' summary) 30 #987

(with Fan, Liang-tseng) The optimization of continuous complex processes by the maximum principle. *J. Electronics Control* (1) 17 (1964), 199-209. (Authors' summary) 30 #986 (with Fan, Liang-tseng) The application of the discrete maximum principle to a transportation problem. *J. Math. and Phys.* 43 (1964), 255-260. (S. E. Dreyfus) 29 #3261

(with Fan, Liang-tseng) On the optimization of multistage feedback processes. *J. Soc. Indust. Appl. Math.* 12 (1964), 226-232. (D. Rosenblatt) 29 #5667

(with Erickson, L. E.; Hwang, C. L.; Fan, Liang-tseng) Heat transfer to magnetohydrodynamic flow in a flat duct. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 408-418. (Chia-Shun Yih) 31 #5433

Wang, G.

(with Leitmann, G.) Necessary and sufficient conditions for multistage two-person zero-sum games. *J. Optimization Theory Appl.* 4 (1969), 145-155. (G. Owen) 40 #5271

Wang, Guang-fa. See Wang Kuang-fa.

Wang, Guang-ying. See Wang Kuang-yin.

Wang, H. H.

(with Gregory, R. T.) On the reduction of an arbitrary real square matrix to tridiagonal form. *Math. Comp.* 18 (1964), 501-505. (A. S. Householder) 29 #2950

Wang, H. S. C.

Nonlinear stationary waves in relativistic plasma. *Phys. Fluids* 6 (1963), 1115-1123. (PA 66 #21824) 32 #3752

On Cauchy's interpolation formula and sampling theorems. *J. Franklin Inst.* 289 (1970), 233-236. (J. H. Curtiss) 43 #5982

Wang, Hao

(with Dreben, Burton; Kahr, A. S.) Classification of *AEA* formulas by letter atoms. *Bull. Amer. Math. Soc.* 68 (1962), 528-532. (J. Surányi) 30 #22; erratum, 30, p. 1206.

(with Kahr, A. S.; Moore, Edward F.) Entscheidungsproblem reduced to the $\forall\exists\forall$ case. *Proc. Nat. Acad. Sci. U.S.A.* 48 (1962), 365-377. (J. Surányi) 30 #21; erratum, 31, p. 1335.

Dominoes and the *AEA* case of the decision problem. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp. 23-55. Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.*, 1963. (A. P. Ershov) 29 #4688

The mechanization of mathematical arguments. *Proc. Sympos. Appl. Math., Vol. XV, pp. 31-40. Amer. Math. Soc., Providence, R. I.*, 1963. (S. Amarel) 30 #736

Mechanical mathematics and inferential analysis. *Computer programming and formal systems, pp. 1-20. North-Holland, Amsterdam*, 1963. (J. Surányi) 30 #1939

Tag systems and lag systems. *Math. Ann.* 152 (1963), 65-74. (J. C. Shepherdson) 29 #27

(with Quine, W. V.) On ordinals. *Bull. Amer. Math. Soc.* 70 (1964), 297-298. (R. O. Gandy) 30 #29

Remarks on machines, sets, and the decision problem. *Formal Systems and Recursive Functions (Proc. Eighth Logic Colloq., Oxford, 1963), pp. 304-320. North-Holland, Amsterdam*, 1965. (H. Langmaack) 39 #6729

Logic and computers. *Amer. Math. Monthly* 72 (1965), *no.* 2, *part II*, 135-140. (J. W. Thatcher) 30 #4639

Note on rules of inference. *Z. Math. Logik Grundlagen Math.* 11 (1965), 193-196. (K. Schütte) 31 #3305

(with Brown, Kenneth R.) Short definitions of the ordinals. *J. Symbolic Logic* 31 (1966), 409-414. (A. Lévy) 34 #1163

(with Cook, S. A.) Characterizations of ordinal numbers in set theory. *Math. Ann.* 164 (1966), 1-25. (J. E. Rubin) 34 #5652

(with Brown, Kenneth R.) Finite set theory, number theory and axioms of limitation. *Math. Ann.* 164 (1966), 26-29. (J. E. Rubin) 34 #5651

Natural hulls and set existence. *Z. Math. Logik Grundlagen Math.* 13 (1967), 175-182. (D. H. Potts) 35 #5308

On axioms of conditional set existence. *Z. Math. Logik Grundlagen Math.* 13 (1967), 183-188. (D. H. Potts) 35 #5309

A theorem on definitions of the Zermelo-Neumann ordinals. *Z. Math. Logik Grundlagen Math.* 13 (1967), 241-250. (W. S. Hatcher) 35 #6543

* Logic computers, and sets. *Chelsea Publishing Co., New York*, 1970. x + 651 *pp.* (From the publisher's description) 42 #4375

On the long-range prospects of automatic theorem-proving. *Symposium on Automatic Demonstration (Versailles, 1968), pp. 101-111. Lecture Notes in Mathematics, Vol.* 125. *Springer, Berlin*, 1970. (A. Zobrist) 42 #5735

Wang, Hsien-chung

Compact transformation groups of S^n with an $(n-1)$-dimensional orbit. *Amer. J. Math.* 82 (1960), 698-748. (G. I. Kručkovič (RŽMat 1961 #12 A523)) 29 #1285

(with Pasiencier, Samuel) Commutators in a semi-simple Lie group. *Proc. Amer. Math. Soc.* 13 (1962), 907-913. (S. Murakami) 30 #190

(with Boothby, William M.) On the finite subgroups of connected Lie groups. *Comment. Math. Helv.* 39 (1965), 281-294. (S. Murakami) 31 #4856

(with Tamir, T.) Characteristic relations for nonperiodic solutions of Mathieu's equation. *J. Res. Nat. Bur. Standards Sect. B.* 69B (1965), 101-119. (F. M. Arscott) 32 #235

Root systems and abelian subgroups of compact Lie groups. *Proc. U. S.-Japan Seminar in Differential Geometry (Kyoto, 1965), pp. 151-152. Nippon Hyoronsha, Tokyo*, 1966. (S. Murakami) 36 #305

On a maximality property of discrete subgroups with fundamental domain of finite measure. *Amer. J. Math.* 89 (1967), 124-132. (G. A. Reid) 34 #7708

Discrete nilpotent subgroups of Lie groups. *J. Differential Geometry* 3 (1969), 481-492. (J. A. Wolf) 41 #5550

(with Goto, Morikumi) Uniform subgroups of simple Lie groups. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970), pp. 231-236. Math. Res. Center, Nat. Taiwan Univ., Taipei*, 1970. (T. Nagano) 43 #2159

Wang, I-chih

A contact stress problem for a rigid smooth sphere in an extended elastic solid. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 651-655. (C.-B. Ling) 32 #8578

Wang, J. H.

Approximation of non-bounded continuous functions by some singular integrals. *Mathematica (Cluj)* 5(28) (1963), 131-136. (G. G. Lorentz) 31 #2553

(with Hsu Li-hsia) General "increasing multiplier" methods and approximation of unbounded continuous functions by certain concrete polynomial operators. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 264-267. (M. Kuczma) 29 #2588

Wang, J. T. S.

(See Symposium on rheology, 33 #5421)

Wang, Jin-ru. See Wang Chin-ju.

Wang, John S. P.

On the cohomology of the mod-2 Steenrod algebra and the non-existence of elements of Hopf invariant one. *Illinois J. Math.* 11 (1967), 480-490. (A. K. Bousfield) 35 #4917

On the stable homotopy groups and the stable mod-2 homotopy groups of Z_2-Moore spaces. *Illinois J. Math.* 11 (1967), 491-505. (A. K. Bousfield) 35 #4918

Wang, Ju-kwei

Analytic functions with boundary values of bounded variation. (Chinese and Esperanto summaries) *Hung-Ching Chow 60th Anniversary Vol., pp. 86-92. Inst. of Math., Acad. Sinica, Taipei*, 1962. (R. E. Edwards) 31 #1573

(with Larsen, Ron; Liu, Teng-sun) On functions with Fourier transforms in L_p. *Michigan Math. J.* 11 (1964), 369-378. (J. L. B. Cooper) 30 #412

(with Srinivasan, T. P.) On closed ideals of analytic functions. *Proc. Amer. Math. Soc.* 16 (1965), 49-52. (H. S. Bear) 30 #462

(with Srinivasan, T. P.) Weak *-Dirichlet algebras. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp. 216-249. Scott-Foresman, Chicago, Ill.*, 1966. (A. Figà-Talamanca) 33 #6441

(with Liu, Teng-sun) Sums and intersections of Lebesgue spaces. *Math. Scand.* 23 (1968), 241-251 (1969). (H. Beckert) 41 #7503

(with Liu, Teng-sun; van Rooij, Arnoud) Transformation groups and absolutely continuous measures. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 57-61. (A. Kleppner) 41 #5600

Note on a theorem of Nehari on Hankel forms. *Proc. Amer. Math. Soc.* 24 (1970), 103-105. (D. E. Ramirez) 40 #3182

(with Liu, Teng-sun; van Rooij, Arnoud) Group representations in Banach spaces: Orbits and almost-periodicity. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970), pp. 243-254. Math. Res. Center, Nat. Taiwan Univ., Taipei*, 1970. (W. Żelazko) 43 #2166

(with Liu, Teng-sun; van Rooij, Arnoud) Projecteurs et unités approchées pour des idéaux dans $L_1(G)$. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A473. (R. Rigelhof) 44 #4458

Wang, K. P.

(with Cheung, T. H.; Tong, E.) Remark on memory function approach and linear response theory. *Canad. J. Phys.* 48 (1970), 1631-1633. (Authors' summary) 42 # 8838

Wang, Kan-ting. See Wang K'ang-t'ing.

Wang, Kuo Chang

The 'piston problem' with thermal radiation. *J. Fluid Mech.* 20 (1964), 447-455. (J. F. Clarke) 30 #1705

(with Maslen, S. H.) Hydromagnetic stability of a vortex sheet in compressible fluids. *Phys. Fluids* 7 (1964), 1780-1784. (S. I. Pai) 30 #829

Transition graphs of affine transformation on vector spaces over finite fields. *J. Franklin Inst.* 283 (1967), 55-72. (O. Ore) 37 #101

Coset partitions and linear sequential circuits. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp. 743-751. Univ. of Illinois, Urbana, Ill.*, 1968. (Author's summary) 41 #8167 (with Laity, Paul) Majority logic decoding for linear codes. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1969), pp.* 114-118. *Univ. of Illinois, Urbana, Ill.*, 1969. (H. F. Mattson, Jr.) 42 #4317

ang, Kuo-hsiang

Clebsch-Gordan series and the Clebsch-Gordan coefficients of O(2, 1) and SU(1, 1). *J. Mathematical Phys.* 11 (1970), 2077-2095. (G. Bandyopadhyay) 43 #2930

(with Kazes, E.) An interference model for resonances suggested by the Veneziano amplitude. (Italian summary) *Nuovo Cimento A* (11) 1 (1971), 345-356. (R. Rivers) 43 #7144

ang, Paul Keng Chieh

Control of distributed parameter systems. *Advances in Control Systems., Vol.* 1, *pp.* 75-172. *Academic Press, New York*, 1964. (A. W. Naylor) 32 #1040

Optimum control of distributed parameter systems with time delays. *IEEE Trans. Automatic Control* AC-9 (1964), 13-22. (M. N. Oǧuztöreli) 31 #6723

Stabilisabilité d'une classe de systèmes stochastiques linéaires. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A467-A469. (R. Rishel) 34 #1633

Asymptotic stability of distributed parameter systems with feedback controls. *IEEE Trans. Automatic Control* AC-11 (1966), 46-54. (Henry Hermes) 32 #9089 (E)

Correction: "Asymptotic stability of distributed parameter systems with feed-back controls". *IEEE Trans. Automatic Control* AC-11 (1966), 737. (Editors) 34 #4025

Stability analysis of elastic and aeroelastic systems via Lyapunov's direct method. *J. Franklin Inst.* 281 (1966), 51-72. (Y. C. Fung) 32 #4906

Equivalence asymptotique d'équations d'évolution. *C. R. Acad. Sci. Paris Ser. A - B* 264 (1967), A629-A632. (J. Prouse) 35 #6956

Control of a distributed parameter system with a free boundary. *Internat. J. Control* (1) 5 (1967), 317-329. (Author's summary) 35 #6478

Theory of stability and control for distributed parameter systems: A bibliography. *Internat. J. Control* (1) 7 (1968), 101-116. 37 #3856

On certain maximum properties of Cauchy problems. *J. Math. Anal. Appl.* 24 (1968), 136-145. (E. D. Conway) 38 #438

Optimal control of a class of linear symmetric hyperbolic systems with applications to plasma confinement. *J. Math. Anal. Appl.* 28 (1969), 594-608. (R. E. Kalman) 42 #2148

(with Janos, W. A.) A control-theoretic approach to the plasma confinement problem. *J. Optimization Theory Appl.* 5 (1970), 313-329. (Authors' summary) 41 #7924

ang, Paul P.

An analytical study of the aggregate transfer function for linear stochastic systems. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1969*), pp.* 418-427. *Univ. of Illinois, Urbana, Ill.*, 1969. (Author's summary) 41 #8124

ang, Peter C. C.

Poisson processes with events in clusters. *Rend. Sem. Fac. Sci. Univ. Cagliari* 38 (1968), 143-145. (P. M. Lee) 38 #6683

Totally positive functions and denumerable Markov chains. *Rend. Sem. Fac. Sci. Univ. Cagliari* 38 (1968), 167-182. (D. S. Adorno) 40 #6646

A binomial identity with an application to sequence of symmetric Bernoulli trials. *Rend. Sem. Fac. Sci. Univ. Cagliari* 39 (1969), 153-155. (M. Skalsky) 41 #2734

On incidence matrices. *Quart. Appl. Math.* 27 (1969/70), 509-515. (R. A. Brualdi) 41 #1560

A theorem on first-passage times of symmetric random walk. *Rend. Sem. Fac. Sci. Univ. Cagliari* 39 (1969), 151-152. (From the author's introduction) 41 #4669

Existence and uniqueness theorem for a differential equation. *Rend. Sem. Fac. Sci. Univ. Cagliari* 39 (1969), 235-237. (R. E. Gaines) 42 #564

Wang, S. P.

Limit of lattices in a Lie group. *Trans. Amer. Math. Soc.* 133 (1968), 519-526. (H. Garland) 38 #3378

The dual space of semi-simple Lie groups. *Amer. J. Math.* 91 (1969), 921-937. (N. R. Wallach) 41 #3665

The automorphism group of a locally compact group. *Duke Math. J.* 36 (1969), 277-282. (J. G. Horne) 39 #1589

On the centralizer of a lattice. *Proc. Amer. Math. Soc.* 21 (1969), 21-23. (J. A. Wolf) 38 #5989

On a conjecture of Chabauty. *Proc. Amer. Math. Soc.* 23 (1969), 569-572. (A. M. Macbeath) 41 #388

On a theorem of representation of lattices. *Proc. Amer. Math. Soc.* 23 (1969), 583-587. (S. Sankaran) 40 #1530

On *S*-subgroups of solvable Lie groups. *Amer. J. Math.* 92 (1970), 389-397. (H. Scheerer) 41 #8581

On the limit of subgroups in a group. *Amer. J. Math.* 92 (1970), 708-724. (J. G. Horne) 43 #2158

Some properties of lattices in a Lie group. *Illinois J. Math.* 14 (1970), 35-39. (J. Scheerer) 40 #7386

Compactness properties of topological groups. *Trans. Amer. Math. Soc.* 54 (1971), 301-314. (R. W. Bagley) 42 #6152

Wang, Shao-shang. See Wang Shao-sheng.

Wang, Shu-tang. See Wang Shu-t'ang.

Wang, Ya Yen Lee

On the order of the Euler-Lagrange equations of the variational problem of the affine arc length. *J. Reine Angew. Math.* 245 (1970), 55-62. (E. Heil) 42 #6733

Wang, Yuan. See Wang Yuan.

Wang, Ying Y.

A comparison of several variance component estimators. *Biometrika* 54 (1967), 301-305. (M. Atiqullah) 35 #6259

Wang-an

(with Ēžov, Ī. Ī.) On a generalization of homogeneous processes with independent increments. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukräin. RSR Ser. A* 1967, 291-294. (M. Skalsky) 35 #3746

(with Ēžov, Ī. Ī.) Limit theorems for a class of random variables connected in a Markov chain. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukräin. RSR Ser. A* 1967, 577-579. (Authors' summary) 37 #5922

(with Ēžov, Ī. Ī.) A limit theorem for a certain sequence of series of random variables which are linked in a homogeneous Markov chain. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukräin. RSR Ser. A* 1969, 108-110, 184. (Authors' summary) 39 #3567

(with Ēžov, Ī. Ī.) One-parameter families of characteristic functions that are defined by differential equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 490-492, 570. (M. Skalsky) 41 #2793

Wang Bo-ying. See Wang Po-ying.

Wang Chang, C. S.

(with Uhlenbeck, G. E.; de Boer, J.) The heat conductivity and viscosity of polyatomic gases. *Studies in Statistical Mechanics, Vol. II, pp.* 241-268. *North-Holland, Amsterdam; Interscience, New York*, 1964. (R. Balescu) 29 #6881

Wang Chen-yu

On an interpolation problem of entire functions. *Acta Math. Sinica* 13 (1963) 1-16 *(Chinese); translated as Chinese Math.* 4 (1963), 1-17. (Hari Shankar) 29 #248

Problem of interpolation for entire functions of infinite order. (Chinese) *Shuxue Jinzhan* 6 (1963), 63-69. (C. C. Wu) 39 #1654

On an interpolation problem of entire functions. *Sci. Sinica* 13 (1964), 1-20. (Editors) 31 #353

On the Borel direction of the coefficients of entire functions and its application to the closure problem. (Chinese) *Shuxue Jinzhan* 7 (1964), 206-210. (C. C. Wu) 39 #1655

Wang Chia-kang

Properties and limit theorems of sample functions of the Itô stochastic integral. *Acta Math. Sinica* 14 (1964), 517-531 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 556-570. (H. P. McKean, Jr.) 30 #4293

On the absolute continuity and singularity of measures induced by the processes with independent increments. *Sci. Sinica* 13 (1964), 859-877. (D. Austin) 32 #4734

Wang Chin-ju

A gradient method for finding the eigenvalues and eigenvectors of a self-adjoint operator. *Acta Math. Sinica* 13 (1963), 23-28 *(Chinese); translated as Chinese Math.* 4 (1963), 24-30. (L. W. Ehrlich) 29 #733

Gradient methods for finding eigenvalues and eigenvectors. *Acta Math. Sinica* 14 (1964), 538-545 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 578-587. (L. W. Ehrlich) 30 #3571

Wang Ch'uan-fang

Corrigendum to: "Boundary value problems for degenerate elliptic partial differential equations". *Acta Math. Sinica* 16 (1966), 282 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 299. (Editors) 33 #6141

Wang Chu-ch'i

* (with Kuo Tun-jen) T'e-shu han-shu k'ai-lun. (Chinese) [General treatise on special functions]. *Science Press, Peking*, xiii + 760 *pp.* (Tung-Po Lin) 34 #377

Wang Chu-hsi. See Wang Chu-ch'i.

Wang Guang-fa. See Wang Kuang-fa.

Wang Guang-yin. See Wang Kuang-yin.

Wang Hsing-hua

The exact constant of approximation of continuous functions by the Jackson singular integral. *Acta Math. Sinica* 14 (1964), 231-237 *(Chinese); translated as Chinese Math.* 5 (1964), 254-260. (G. G. Lorentz) 29 #5035

Approximation of continuous functions by positive linear sums of Fourier series. (Chinese) *Shuxue Jinzhan* 8 (1965), 322-325. 38 #2511

Wang Hsü-t'ang. See Wang Shu-t'ang.

Wang Jia-gang. See Wang Chia-kang.

Wang Jou-huai

Introduction to Friedrichs' theory of general boundary value problems of symmetric positive linear differential equations. (Chinese) *Shuxue Jinzhan* 6 (1963), 218-236. (Z. Shen) 32 #6054

A Fourier method on the L_p theory of parabolic and elliptic boundary value problems. *Sci. Sinica* 14 (1965), 1373-1376. (R. Beals) 34 #7979

Wang K'ang-ning

(with Pi Ta-ch'uan) The optimal control problem of the control system with distributed parameters. *Kexue Tongboa (Foreign Lang. Ed.)* 17 (1966), 278-280. (P. L. Falb) 33 #7164

Wang Kuang-fa

(with Ch'en Pu-ch'uan; Lu Wei-mien; Sun Ching-sen; Wang Shao-sheng) On the Cauchy problem for a parabolic Monge-Ampère equation. *Acta Math. Sinica* 12 (1962), 273-277 *(Chinese); translated as Chinese Math.* 3 (1963), 302-306. (R. Barrar) 29 #6194

Wang Kuang-yin

(with Chen Tun-tung; Mei To-wen) On a Monge-Ampère equation of parabolic type. *Acta Math. Sinica* 14 (1964), 78-92 *(Chinese); translated as Chinese Math.* 5 (1964), 85-100. (R. Barrar) 29 #377

Quasilinear parabolic equations. *Acta Math. Sinica* 14 (1964), 494-502 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 531-540. (R. Barrar) 30 #4069

(with Piao Ming-ch'eng) Nonlinear parabolic equations. *Acta Math. Sinica* 16 (1966), 283-299 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 301-318. (R. Barrar) 34 #7973

Wang Lian. See Wang Lien.

Wang Lien

(with Ch'in Yuan-hsun; Liu Yung-ch'ing) Effect of time-lags on stability of dynamical systems. (With discussion. French and German summaries) *Automatic and Remote Control (Proc. First Internat. Congr. Internat. Fed. Automat. Control, Moscow,* 1960*), Vol. I, pp.* 26-32. *Butterworths, London,* 1961. (Authors' summary) 33 #2434

Wang Li-lei. See Wang Li-li.

Wang Li-li

Propagation of elastico-plastic waves in a flexible string. (Chinese. Russian summary) *Acta Mech. Sinica* 7 (1964), 228-240. (C.-B. Ling) 32 #8603

Wang Po-ying

(with Shih Chung-tz'u) Bounds for the determinant, characteristic roots and condition number of certain types of matrices. *Acta Math. Sinica* 15 (1965), 326-341 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 21-40. (M. Marcus) 32 #4137

Wang Rou-huai. See Wang Jou-huai.

Wang Shao-sheng

(with Lu Wei-mien; Ch'en Pu-ch'uan; Wang Shao-sheng; Sun Ching-sen) On the Cauchy problem for a parabolic Monge-Ampère equation. *Acta Math. Sinica* 12 (1962), 273-277 *(Chinese); translated as Chinese Math.* 3 (1963), 302-306. (R. Barrar) 29 #6194

Wang Sheng-wang

The converse of a theorem of Ladyženskiĭ on the complete continuity of the Uryson operator. *Acta Math. Sinica* 13 (1963), 254-261 *(Chinese); translated as Chinese Math.* 4 (1963), 275-282. (G. J. Minty) 30 #3351

On the products of Orlicz spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 11 (1963), 19-22. (R. O'Neil) 29 #6300

Convex functions of several variables and vector-valued Orlicz spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 11 (1963), 279-284. (R. O'Neil) 29 #6301

Some remarks on the solutions of certain non-linear differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 150 (1963), 967-970. (G. R. Morris) 30 #3314

Problem of products of Orlicz spaces. (Chinese) *Shuxue Jinzhan* 7 (1964), 282-294. (Ky Fan) 32 #8138

(with Lou Yü-t'ung; Feng Pao-ch'i) On the solutions of the Hammerstein integral equations. III. *Acta Math. Sinica* 15 (1965), 63-73 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 363-374. (R. H. Moore) 34 #3382

A class of nonlinear operators in Hilbert space and its applications. (Chinese) *Shuxue Jinzhan* 9 (1966), 27-32. (Ky Fan) 35 #3503

Wang Shih-ch'iang

A remark on the automorphism groups of algebraic systems. (Chinese) *Shuxue Jinzhan* 7 (1964), 213-218. (B. Lou) 35 #5381

Wang Shih-sheng

An improvement on a certain method of approximation. (Chinese) *Shuxue Jinzhan* 8 (1965), 262-271. (C. C. Wu) 40 #6149

Wang Shi-shang. See Wang Shih-sheng.

Wang Shuh-tang. See Wang Shu-t'ang.

Wang Shu-t'ang

Remarks on ω_μ-additive spaces. I. *Acta Math. Sinica* 14 (1964), 619-626 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 1-9. (E. Duda) 31 #1648

Remarks on ω_μ-additive spaces. *Fund. Math.* 55 (1964), 101-112. (E. Duda) 29 #4022

Wang Si-lei. See Wang Szu-lei.

Wang Szu-lei

On the functions represented by Rademacher series. *Acta Math. Sinica* 13 (1963), 647-652 *(Chinese); translated as Chinese Math. - Acta* 4 (1964), 703-708. (R. S. L. Srivastava) 29 #415

On some theorems on conjugate functions. *Acta Math. Sinica* 14 (1964), 415-427 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 447-459. (S. Izumi) 30 #3339

Remarks on the paper "Properties of fractional integrals and derivatives". (Chinese) *Shuxue Jinzhan* 7 (1964), 346-348. (C.-B. Ling) 39 #4620

On the summability of the derived Fourier series. *Acta Math. Sinica* 15 (1965), 469-475 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 180-186. (W. Miesner) 32 #8037

On the absolute Nörlund summability of a Fourier series and its conjugate series. *Acta Math. Sinica* 15 (1965), 559-573 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 281-295. (T. Pati) 34 #8083

On some theorems on conjugate functions. *Sci. Sinica* 14 (1965), 507-521. (Editors) 34 #6424

Absolute summability of divergent, possibly bounded, Fourier series. (Chinese) *Shuxue Jinzhan* 8 (1965), 317-321. 38 #2525

(See also Ho Wen-chieh, 39 #1890)

On Haar series. *Acta Math. Sinica* 16 (1966), 211-222 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 222-233. (J. J. Price) 34 #1792

A boundary problem in the theory of absolute summability factors of Fourier series. *Acta Math. Sinica* 16 (1966), 503-512 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 524-533. (T. Pati) 34 #8085

On a problem of A. Zygmund. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 147. (W. Miesner) 34 #3198

On a problem in the theory of absolute summability factors of the Fourier series. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 148-150. (W. Miesner) 34 #3220

On the summability of the derived Fourier series. *Sci. Sinica* 15 (1966), 581-587. (T. Pati) 34 #8084

Wang Tan-chih

A certain criterion for Ljapunov stability. (Russian) *Differencial'nye Uravnenija* 4 (1968), 446-458. (W. A. Coppel) 37 #3135

A remark on the article "A certain criterion for Ljapunov stability". (Russian) *Differencial'nye Uravnenija* 5 (1969), 1537-1538. (M. Bertolino) 41 #5728

The stability of the zero solution of a system of linear differential equations with variable coefficients. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 86-94. (P. Seibert) 42 #613

Wang T'ing-fu

Compactness of the spaces $B(S)$ and $L_M^*(G)$. (Chinese) *Shuxue Jinzhan* 9 (1966), 287-290. (T. R. Chow) 39 #767

Wang Tung

Bounds for solutions of boundary-value problems for the general second-order elliptic equation with discontinuous coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 577-580. (G. Marinescu) 30 #342

Theory of the heat potential. I. Level curves of heat potentials and the inverse problem in the theory of the heat potential. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 660-670. (A. Friedman) 29 #3766

The theory of the heat potential. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 507-510. (J. F. Heyda) 30 #4957

Theory of the heat potential. II. Smoothness of contour heat potential. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 474-487. (A. Friedman) 33 #1600

A theory of the thermal potential. III. Smoothness of a plane thermal potential. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 658-666. (R. Guenther) 34 #481

The heightening property of direct values of generalized potentials for the comparison function of a general elliptic operator of second order. (Russian) *Differencial'nye Uravnenija* 2 (1966), 266-294. (G. Marinescu) 35 #3076

Wang Tzu-k'un

On zero-one laws for Markov processes. *Acta Math. Sinica* 15 (1965), 342-353 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 41-54. (H. Kesten) 32 #6553

The Martin boundary and limit theorems for excessive functions. *Sci. Sinica* 14 (1965), 1118-1129. (P. E. Ney) 32 #6554

Some properties of recurrent Markov processes. *Acta Math. Sinica* 16 (1966), 166-178 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 176-190. (S. Orey) 34 #863

Wang Tzu-kwen. See Wang Tzu-k'un.

Wang Xing-hua. See Wang Hsing-hua.

Wang Xu-tang. See Wang Shu-t'ang.

Wang Yang-hsien

Structure of unitary groups over a field of characteristic 2. (Chinese) *Shuxue Jinzhan* 8 (1965), 251-261. (C. C. Wu) 40 #7364

A new definition of spinor norm. *Acta Math. Sinica* 16 (1966), 411-424 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 433-447. (F. D. Veldkamp) 34 #4370

Wang Yang-xian. See Wang Yang-hsien.

Wang Yuan

A note on the maximal number of pairwise orthogonal Latin squares of a given order. *Sci. Sinica* 13 (1964), 841-843. (E. G. Straus) 30 #3866

(with Hua Lo-keng) On Diophantine approximations and numerical integrations. I, II. *Sci. Sinica* 13 (1964), 1007-1009; *ibid.* 13 (1964), 1009-1010. (C. H. Lehmer) 30 #3062

Estimation and application of character sums. (Chinese) *Shuxue Jinzhan* 7 (1964), 78-83. (K. Mahler) 37 #5162

(with Hsieh Sheng-kang; Yu K'un-ch'uai) Two results on the distribution of prime numbers. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 32-38. (K. Mahler) 34 #7482

* (with Hua Lo-keng) Shu-chih chi-fen chi ch'i yin-yung. (Chinese) [Numerical integration and its applications]. Second printing of the 1963 edition. *Science Press, Peking,* 1965. viii + 160 *pp.* 34 #3787

Remarks on the interpolation of a certain class of functions. *Sci. Sinica* 14 (1965), 629-631. (Editors) 34 #6392

(with Hsieh Sheng-kang; Yu K'un-ch'uai) Remarks on the difference of consecutive primes. *Sci. Sinica* 14 (1965), 786-788. (R. A. Rankin) 32 #5617

(with Hua Lo-keng) On numerical integration of periodic functions of several variables. *Sci. Sinica* 14 (1965), 964-978. (J. H. Halton) 32 #4823

On the maximal number of pairwise orthogonal latin squares of order s; an application of the sieve method. *Acta Math. Sinica* 16 (1966), 400-410 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 422-432. (P. Erdős) 34 #2483

On interpolation of functions of a certain class. (Russian) *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 387-389. (G. G. Lorentz) 34 #4759

(with Schinzel, A.) Corrigendum to: "A note on some properties of the functions $\phi(n)$, $\sigma(n)$ and $\theta(n)$". *Ann. Polon. Math.* 19 (1967), 115. (W. J. LeVeque) 35 #142

Wang Yu-yin

(with T'ai Chü-wei; Li Pao-shou) A computing method for linear time optimal control systems. *Sci. Sinica* 14 (1965), 267-282. (Authors' summary) 32 #1052

Wang Zhen-yu. See Wang Chen-yu.

Wang Zhu-xi. See Wang Chu-ch'i.

Wang Zi-kun. See Wang Tzu-k'un.

Wani, J. K.

(with Patil, G. P.) Maximum likelihood estimation for the complete and truncated logarithmic series distributions. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que., 1963), pp. 398-409. Statistical Publishing Society, Calcutta,* 1965. (H. L. Seal) 35 #2403

(with Patil, G. P.) On certain structural properties of the logarithmic series distribution and the first type Stirling distribution. *Sankhyā Ser. A* 27 (1965), 271-280. (S. S. Gupta) 34 #2106

(with Patil, G. P.) Maximum likelihood estimation for the complete and truncated logarithmic series distributions. *Sankhyā Ser. A* 27 (1965), 281-292. (E. S. Keeping) 34 #885

(with Patil, G. P.) Minimum variance unbaised estimation of the distribution function admitting a suffieient statistic. *Ann. Inst. Statist. Math.* 18 (1966), 39-47. (I. Guttman) 34 #886

Moment relations for smoe discrete distributions. *Skand. Aktuarietidskr.* 1967, 50-55. (Author's summary) 37 #951

On the linear exponential family. *Proc. Cambridge Philos. Soc.* 64 (1968), 481-483. (Z. W. Birnbaum) 37 #952

(with Kabe, D. G.) Note on a characterization of the inverse Gaussian distribution. *Ann. Math. Statist.* 41 (1970), 1071-1073. 41 #4711

(with Kabe, D. G.) On some distributions associated with the inverse Gaussian distribution. *Math. Biosci.* 6 (1970), 37-44. 42 #1261

Waniurski, Józef

(with Bogucki, Zbigniew) On a theorem of M. Biernacki concerning convex majorants. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 19 (1965), 11-15 (1970). (S. D. Bernardi) 41 #7082

Wanner, Gerhard

Ein Beitrag zur numerischen Behandlung von Randwertaufgaben gewöhnlicher Differentialgleichungen nach der Liereihenmethode *Monatsh. Math.* 69 (1965), 431-440. (M. Urabe) 32 #6685

(with Knapp, H.) On the numerical treatment of ordinary differential equations. *Contributions to the Method of Lie Series, Chapter II, pp. 43-97. Bibliographisches Institut, Mannheim,* 1967. (J. C. Butcher) 41 #7851

(with Gröbner, W.; Reitberger, H.) Invariant functions and characteristics belonging to Lie operators. *Contributions to the Method of Lie Series, Chapter III, pp. 99-177. Bibliographisches Institut, Mannheim,* 1967. (M. Pinl) 40 #517

Zur Berechnung von Integralen mit asymptotischen Reihen. *Z. Angew. Math. Mech.* 47 (1967), 201. (D. C. Gilles) 37 #3767

(with Knapp, Hans) Numerische Integration gewöhnlicher Differentialgleichungen: Einschrittverfahren. B. I. Hochschultaschenbücher 161/161a. *Überblicke Math.* 1 (1968), 87-114. (M. Lotkin) 39 #3709

Theorie der Lie-Reihen. B. I. Hochschultaschenbücher 161/161a. *Überblicke Math.* 1 (1968), 133-153. (R. Nicolovius) 39 #5064

* Integration gewöhnlicher Differentialgleichungen. Lie-Reihen (mit Programmen), Runge-Kutta-Methoden. B. I-Hochschulskripten, 831/831a. *Bibliographisches Institut. Mannheim-Zürich,* 1969. x + 182 *pp.* (M. L. Juncosa) 41 #2936

Wannier, Gregory H.

(with Upadhyaya, U. N.) Zero-field susceptibility of Bloch electrons. *Phys. Rev.* (2) 136 (1964), A803-A810. (C. P. Enz) 31 #3183

Quantum-mechanical proof of the second law. *Amer. J. Phys.* 33 (1965), 222-225. (S. Ono) 32 #7117

(with Yan, C. C.) Observations on the spherical model of a ferromagnet. *J. Mathematical Phys.* 6 (1965), 1833-1838. (H. W. Lewis) 33 #2331

Wan Zhe-xian. See Wan Che-hsien.

Warburton, A.

(with Ziemba, W. T.) Convex inversion. *J. Math. Anal. Appl.* 35 (1971), 58-66. (W. F. Tyndall) 43 #8383

Warburton, A. E. A.

The analytic properties of Regge trajectories. II. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 266-277. (Author's summary) 32 #8755

Threshold behavior of Regge trajectories. *Phys. Rev.* (2) 137 (1965), B993. (A. O. Barut) 32 #8756

Ward, A. J.

Notes on general topology. I. Convergence of directed nets. *Proc. Cambridge Philos. Soc.* 61 (1965), 877-878. (S. P. Franklin) 32 #1683

Notes on general topology. II. A generalization of arc-connectedness. *Proc. Cambridge Philos. Soc.* 61 (1965), 879-880. (Editors) 32 #1684

Notes on general topology. III. A non-metric image of an ordered compactum. *Proc. Cambridge Philos. Soc.* 61 (1965), 881-882. (Editors) 32 #1685

Ultrafilters as closure-points of a set. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 1(21) (1966), 165-166. (W. J. Pervin) 35 #7302

A counter-example in uniformity theory. *Proc. Cambridge Philos. Soc.* 62 (1966), 207-208. (J. R. Isbell) 32 #6408

A theorem of fixed-point type for non-compact locally connected spaces. *Colloq. Math.* 17 (1967), 289-296. (L. E. Ward, Jr.) 36 #5929

On H-equivalence of uniformities: The Isbell-Smith problem. *Pacific J. Math.* 22 (1967), 189-196. (S. A. Naimpally) 35 #6125

On *H*-equivalence of uniformities. II. *Pacific J. Math.* 28 (1969), 207-215. (S. A. Naimpally) 39 #914

Ward, Bynum Terrell. See Bynum, Terrell Ward.

Ward, D. J.

A counter-example in area theory. *Proc. Cambridge Philos. Soc.* 60 (1964), 821-845. (U. D'Ambrosio) 30 #1230

(with Larman, D. G.) On convex sets and measures. *Proc. Cambridge Philos. Soc.* 62 (1966), 33-41. (U. D'Ambrosio) 32 #5840

The measure of cylinder sets. *J. London Math. Soc.* 42 (1967), 401-408. (J. Král) 36 #356

A set of plane measure zero containing all finite polygonal arcs. *Canad. J. Math.* 22 (1970), 815-821. (B. K. Lahiri) 41 #8634

Ward, G. N.

On the integration of Macwell's equations, and charge and dipole fields. *Proc. Roy. Soc. Ser. A* 279 (1964), 562-571. (I. Kay) 29 #1872

Some fields associated with a moving point, and weak solutions of the wave equation. *Proc. Cambridge Philos. Soc.* 61 (1965), 191-199. (I. Kay) 31 #1455

The electromagnetic fields of moving dipoles. *Proc. Cambridge Philos. Soc.* 61 (1965), 547-553. (G. Temple) 31 #1014

Ward, Harold N.

On Ree's series of simple groups. *Trans. Amer. Math. Soc.* 121 (1966), 62-89. (Rimhak Ree) 33 #5752

On the triviality of primary parts of the Schur multiplier. *J. Algebra* 10 (1968), 377-382. (D. Gorenstein) 38 #1181

The analysis of representations induced from a normal subgroup. *Michigan Math. J.* 15 (1968), 417-428. (O. H. Kegel) 40 #4384

An extension of a theorem on monomial groups. *Amer. Math. Monthly* 76 (1969), 534-535. (W. J. Wong) 39 #4285

Automorphisms of quaternion-free 2-groups. *Math. Z.* 112 (1969), 52-58. (E. L. Spitznagel, Jr.) 41 #318

Representations of symplectic groups. *J. Algebra* 20 (1972), 182-195. (S. B. Conlon) 44 #4116

Ward, J. F.

Calculation of nonlinear optical susceptibilities using diagrammatic perturbation theory. *Rev. Modern Phys.* 37 (1965), 1-18. (A. Corciovei) 32 #5308

(with Boullion, T. L.; Lewis, T. O.) A note on the oblique matrix pseudoinverse. *SIAM J. Appl. Math.* 20 (1971), 173-175. (R. J. Plemmons) 44 #6716

Ward, J. N.

Involutory automorphisms of groups of odd order. *J. Austral. Math. Soc.* 6 (1966), 480-494. (B. Chang) 34 #7651

On finite soluble groups. *J. Austral. Math. Soc.* 9 (1969), 250-251. (H. Bechtell) 39 #315

Automorphisms of finite groups and their fixed-point groups. *J. Austral. Math. Soc.* 9 (1969), 467-477. (E. L. Spitznagel, Jr.) 39 #4267

Ward, James E., III

Two-groups and Jordan algebras. *Pacific J. Math.* 32 (1970), 821-829. (K. Meyberg) 41 #6927 (E)

Correction to: "Two-groups and Jordan algebras". *Pacific J. Math.* 35 (1970), 806. (Editors) 42 #7725

Ward, John C.

(with Salam, A.) Electromagnetic and weak interactions. *Phys. Lett.* 13 (1964), 168-171. (R. Gatto) 33 #1050

(with Salam, Abdus) Gauge theory of elementary interactions. *Phys. Rev.* (2) 136 (1964), B763-B768. (E. C. G. Sudarshan) 31 #4466

Ward, L. E., Jr.

A weak Tychonoff theorem and the axiom of choice. *Proc. Amer. Math. Soc.* 13 (1962), 757-758. (M. Atsuji (Zbl 112, 143)) 32 #3996

Concerning Koch's theorem on the existence of arcs. *Pacific J. Math.* 15 (1965), 347-355. (R. J. Koch) 31 #6206

On a conjecture of R. J. Koch. *Pacific J. Math.* 15 (1965), 1429-1433. (R. J. Koch) 32 #6397

A general fixed point theorem. *Colloq. Math.* 15 (1966), 243-251. (J. Segal) 34 #806

On the non-cutpoint existence theorem. *Canad. Math. Bull.* 11 (1968), 213-216. (R. E. Smithson) 37 #5854

(with Tymchatyn, E. D.) On three problems of Franklin and Wallace concerning partially ordered spaces. *Colloq. Math.* 20 (1969), 229-236. (D. R. Brown) 40 #3512

(with Nadler, Sam B., Jr.) Concerning continuous selections. *Proc. Amer. Math. Soc.* 25 (1970), 369-374. (R. F. Dickman, Jr.) 41 #1016

Set-valued mappings on partially ordered spaces. *Set-Valued Mappings, Selections and Topological Properties of* 2^X *(Proc. Conf., SUNY, Buffalo, N. Y., 1969), pp.* 88-99. *Lecture Notes in Mathematics, Vol.* 171. *Springer, Berlin,* 1970. (S. P. Franklin) 42 #5238

Compact directed spaces. *Trans. Amer. Math. Soc.* 152 (1970), 145-157. (D. W. Hall) 42 #3755

Arcs in hyperspaces which are not compact. *Proc. Amer. Math. Soc.* 28 (1971), 254-258. (D. W. Hall) 43 #1133

Ward, M. A.

(with Havas, George) Lattices with sublattices of a given order. *J. Combinatorial Theory* 7 (1969), 281-282. (R. P. Dilworth) 40 #1308

Basic commutators. *Philos. Trans. Roy. Soc. London Ser. A* 264 (1969), 343-412. (I. D. Macdonald) 40 #4379

Totally unordered subsets of a partially well ordered set. *Bull. Austral. Math. Soc.* 2 (1970), 179-182. (K. A. Baker) 41 #3329

Remarks on a theorem of Fuchs. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 5-8. (P. F. Conrad) 32 #7657

Ward, M. M.

(with McIntyre, G. A.) Estimators of percentile points of the *F* distribution. *Austral. Comput. J.* 1 (1968), 113-114. 37 #3743

Wardle, K. L.

* Differential geometry. *Dover Publications, Inc., New York,* 1965. x + 96 *pp.* (Ram Behari) 33 #4807

Ware, A. A.

Magnetohydrodynamic stability of toroidal plasmas. *Phys. Fluids* 7 (1964), 2006-2011. (Author's summary) 30 #833

(with Haas, F. A.) Stability of a circular toroidal plasma under average magnetic well conditions. *Phys. Fluids* 9 (1966), 956-964. (V. H. Weston) 33 #6966

Ware, Roger

(with Zelmanowitz, J.) Simple endomorphism rings. *Amer. Math. Monthly* 77 (1970), 987-989. (A. Mader) 42 #3070

(with Zelmanowitz, J.) The Jacobson radical of the endomorphism ring of a projective module. *Proc. Amer. Math. Soc.* 26 (1970), 15-20. (J. Luh) 41 #6891

(with Knebusch, Manfred; Rosenberg, Alex) Structure of Witt rings, quotients of abelian group rings, and orderings of fields. *Bull. Amer. Math. Soc.* 77 (1971), 205-210. (J. S. Hsia) 42 #5974

Endomorphism rings of projective modules. *Trans. Amer. Math. Soc.* 155 (1971), 233-256. (C. J. Penning) 43 #274

(with Knebusch, Manfred; Rosenberg, Alex) Signatures on semilocal rings. *Bull. Amer. Math. Soc.* 78 (1972), 62-64. (G. A. Efroymson) 44 #2734

Waren, A. D.

(with Lasdon, L. S.; Mitter, S. K.) The conjugate gradient method for optimal control problems. *IEEE Trans. Automatic Control* AC-12 (1967), 132-138. (M. Z. Nashed) 35 #4786

Warfield, John N.

Switching networks as models of discrete stochastic processes. *Applied Automata Theory, pp.* 81-123. *Academic Press, New York,* 1968. (C. L. Sheng) 41 #3193

Warfield, Robert B., Jr.

(with McShane, E. J.) On Filippov's implicit functions lemma. *Proc. Amer. Math. Soc.* 18 (1967), 41-47. (H. J. Kushner) 34 #8399 (E)

Homomorphisms and duality for torsion-free groups. *Math. Z.* 107 (1968), 189-200. (K. Faltings) 38 #5923

(with McShane, E. J.; Warfield, V. M.) Invariant extensions of linear functionals, with applications to measures and stochastic processes. *Pacific J. Math.* 28 (1969), 121-142. (R. Jajte) 39 #755

Purity and algebraic compactness for modules. *Pacific J. Math.* 28 (1969), 699-719. (B. Stenström) 39 #4212

Decompositions of injective modules. *Pacific J. Math.* 31 (1969), 263-276. (C. Năstăsescu) 40 #2712

(with McShane, E. J.) Addenda and corrigenda to "On Filippov's implicit functions lemma". *Proc. Amer. Math. Soc.* 21 (1969), 496-498. (H. J. Kushner) 38 #6574

A Krull-Schmidt theorem for infinite sums of modules. *Proc. Amer. Math. Soc.* 22 (1969), 460-465. (B. J. Mueller) 39 #4213

An isomorphic refinement theorem for Abelian groups. *Pacific J. Math.* 34 (1970), 237-255. (M. Friedberg) 42 #1896

Decomposability of finitely presented modules. *Proc. Amer. Math. Soc.* 25 (1970), 167-172. (D. Kirby) 40 #7243

Rings whose modules have nice decompositions. *Math. Z.* 125 (1972), 187-192. (R. A. Wiegand) 44 #6677

Warfield, V. M.

(with McShane, E. J.; Warfield, R. B., Jr.) Invariant extensions of linear functionals., with applications to measures and stochastic processes. *Pacific J. Math.* 28 (1969), 121-142. (R. Jajte) 39 #755

Warga, Jack

A convergent procedure for solving the thermochemical equilibrium problem. *J. Soc. Indust. Appl. Math.* 11 (1963), 594-606. (E. M. L. Beale) 29 #3263

Minimizing variational curves restricted to a preassigned set. *Trans. Amer. Math. Soc.* 112 (1964), 432-455. (L. C. Young) 29 #2131

Minimax problems and unilateral curves in the calculus of variations. *J. Soc. Indust. Appl. Math. Ser. A Control* 3 (1965), 91-105. (L. D. Berkovitz) 32 #3899

Variational problems with unbounded controls. *J. Soc. Indust. Appl. Math. Ser. A Control* 3 (1965), 424-438. (L. C. Young) 33 #3156

On a class of minimax problems in the calculus of variations. *Michigan Math. J.* 12 (1965), 289-311. (L. C. Young) 31 #5756

Unilateral variational problems with several inequalities. *Michigan Math. J.* 12 (1965), 449-480. (L. C. Young) 32 #2949

Functions of relaxed controls. *SIAM J. Control* 5 (1967), 628-641. (L. C. Young) 37 #2064a

Restricted minima of functions of controls. *SIAM J. Control* 5 (1967), 642-656. (L. C. Young) 37 #2064b

The reduction of certain control problems to an "ordinary differential" type. *SIAM Rev.* 10 (1968), 219-222. (M. N. Oğuztöreli) 37 #3857

Relaxed controls for functional equations. *J. Functional Analysis* 5 (1970), 71-93. (L. C. Young) 41 #4354

Control problems with functional restrictions. *SIAM J. Control* 8 (1970), 360-371. (D. K. Hughes) 43 #2594

Unilateral and minimax control problems defined by integral equations. *SIAM J. Control* 8 (1970), 372-382. (Henry Hermes) 42 #3645

(with Neustadt, L. W.) Comments on the paper "Optimal control of processes described by integral equations. I" by V. R. Vinokurov. *SIAM J. Control* 8 (1970), 572. (V. Lakshmikantham) 42 #8367

Normal control problems have no minimizing strictly original solutions. *Bull. Amer. Math. Soc.* 77 (1971), 625-628. (D. F. Lawden) 43 #5382

On a class of pursuit and evasion problems. *J. Differential Equations* 9 (1971), 155-167. (J. Cullum) 43 #1017

Wark, D. Q.

(with Alishouse, J. C.; Crone, L. J.; Fleming, H. E.; Van Cleef, F. L.) A discussion of empirical orthogonal functions and their application to vertical temperature profiles. (Russian summary) *Tellus* 19 (1967), 477-482. (John Todd) 39 #6543

Warke, Chindhu S.

(with Singh, Yogeshwar) Generalizations of the Jost-Pais theorem for nonlocal potentials. (French summary) *Canad. J. Phys.* 49 (1971), 1029-1034. (F. C. Auluck) 43 #7159

(with Bhaduri, R. K.) On the Jost function of a non-local potential. *Nuclear Phys.* A162 (1971), 289-294. (N. Nakanishi) 44 #5027

Warlimont, Richard

Fatou-Rieszsche Sätze in der Theorie der starken Rieszschen Summierbarkeit von Dirichletreihen. *J. Reine Angew. Math.* 218 (1965), 129-142. (T. Pati) 33 #7740

Über einen Satz von H.-E. Richert zur multiplikativen Zahlentheorie. *J. Reine Angew. Math.* 221 (1966), 197-202. (H.-E. Richert) 32 #2389

Fatou-Rieszsche Sätze bei starker Rieszscher Summierbarkeit von Laplace-Integralen. *J. Reine Angew. Math.* 228 (1967), 139-143. (E. Hille) 36 #1402

Eine Bemerkung über Dirichletreihen mit Funktionalgleichung. *J. Reine Angew. Math.* 228 (1967), 144-158. (E. Hille) 36 #1403

Konvexität starker Mittel. *J. Reine Angew. Math.* 237 (1969), 56-62. (A. Meir) 40 #6113

On squarefree numbers in arithmetic progressions. *Monatsh. Math.* 73 (1969), 433-448. (E. M. Horadam) 41 #3430

On divisor problems in connection with squarefree numbers. *Monatsh. Math.* 74 (1970), 154-165. (T. M. Apostol) 41 #3431

Eine Bemerkung zu einem Ergebnis von N. G. de Bruijn. *Monatsh. Math.* 74 (1970), 273-276. (N. G. de Bruijn) 42 #225

Convexity theorems in the theory of strong summability. *J. London Math. Soc.* (2) 3 (1971), 288-296. (F. P. Cass) 43 #5210

Über die Summierbarkeit von Dirichletreihen mit multiplikativen Koeffizienten. *J. Reine Angew. Math.* 252 (1972), 107-111. (R. Spira) 44 #6628

Warmbrod, G. K.

(with Struble, R. A.) Free resonant oscillations of a conservative two-degree-of-freedom system. *J. Franklin Inst.* 278 (1964), 195-209. (N. D. SenGupta) 29 #4255

The distributional finite Fourier transform. *SIAM J. Appl. Math.* 17 (1969), 930-956. (J. N. Pandey) 40 #4760

Warming, R. F.

The direct calculation of the *H*-function for completely noncoherent scattering. *Astrophys. J.* 159 (1970), 593-604. (Author's summary) 41 #8011

Warmus, Mieczysław

* Tables of Lagrange coefficients for cubic interpolations. Part I: Arguments of the intervals 0.00, ..., 0.25 and 0.75, ..., 1.00. Part II: Arguments of the interval 0.25, ..., 0.75. Computing Centre of the Polish Academy of Sciences. Mathematical Tables, Vol. I. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1965. *Part I,* ix + 501 *pp.; Part II,* 501 *pp.* (Editors) 32 #1873

* Tables of Lagrange coefficients for quadratic interpolations. Computing Centre of the Polish Academy of Sciences. Mathematical Tables, Vol. II. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1966. ix + 501 *pp.* (Editors) 34 #8605

Warndof, Joseph C.

Topologies uniquely determined by their continuous self maps. *Fund. Math.* 66 (1969/70), 25-43. (H. Tong) 42 #1048

Warne, R. J.

Homomorphisms of d-simple inverse semigroups with identity. *Pacific J. Math.* 14 (1964), 1111-1122. (T. Tamura) 29 #4826

A characterization of certain regular d-classes in semigroups. *Illinois J. Math.* 9 (1965), 304-306. (M. Yamada) 30 #4848

On certain bisimple inverse semigroups. *Bull. Amer. Math. Soc.* 72 (1966), 679-682. (T. Tamura) 33 #1392 (E)

Extensions of Brandt semigroups. *Bull. Amer. Math. Soc.* 72 (1966), 683-684. (T. Tamura) 33 #1393

Regular D-classes whose idempotents obey certain conditions. *Duke Math. J.* 33 (1966), 187-195. (Donald W. Miller) 32 #5770

Extensions of Brandt semigroups and applications. *Illinois J. Math.* 10 (1966), 652-660. (H.-J. Hoehnke) 34 #2749

A class of bisimple inverse semigroups. *Pacific J. Math.* 18 (1966), 563-577. (W. D. Munn) 36 #1562

Extensions of completely 0-simple semigroups by completely 0-simple semigroups. *Proc. Amer. Math. Soc.* 17 (1966), 524-526. (P. A. Grillet) 33 #5774

The idempotent separating congruences of a bisimple inverse semigroup with identity. *Publ. Math. Debrecen* 13 (1966), 203-206. (Donald W. Miller) 36 #2726

The direct product of right zero semigroups and certain groupoinds. *Amer. Math. Monthly* 74 (1967), 160-164. (F. C. Biesele) 34 #5961

Errata: "On certain bisimple inverse semigroups". *Bull. Amer. Math. Soc.* 73 (1967), 496. (Editors) 34 #5959

Extensions of I-bisimple semigroups. *Canad. J. Math.* 19 (1967), 419-426. (Št. Schwarz) 36 #293 (E)

Bisimple inverse semigroups mod groups. *Duke Math. J.* 34 (1967), 787-811. (F. C. Biesele) 37 #1501

(with Hogan, J. W.) Homomorphisms of ω^n-right cancellative semigroups. *J. Natur. Sci, and Math.* 7 (1967), 227-235. (Donald W. Miller) 38 #5973

Errata to: "Extensions of I-bisimple semigroups". *Canad. J. Math.* 20 (1968), 511. (Editors) 36 #5249

Extensions of ω^n I-bisimple semigroups. *Math. Japon.* 13 (1968), 105-121. (Donald W. Miller) 40 #261

Direct decomposition of regular semigroups. *Proc. Amer. Math. Soc.* 19 (1968), 1155-1158. (Donald W. Miller) 38 #258

I-bisimple semigroups. *Trans. Amer. Math. Soc.* 130 (1968), 367-386. (F. C. Biesele) 36 #6524

Congruences on ω^n-bisimple semigroups. *J. Austral. Math. Soc.* 9 (1969), 257-274. (F. C. Biesele) 39 #2896

ω^n I-bisimple semigroups. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 121-150. (T. Tamura) 41 #3643

Some properties of simple I-regular semigroups. *Compositio Math.* 22 (1970), 181-195. (K. D. Magill, Jr.) 42 #404

Simple L-regular semigroups. *Formosan Sci.* 24 (1970), 71-77. (T. Tamura) 43 #3371

A comment on: "Simple L-regular semigroups". *Formosan Sci.* 24 (1970), 78. (T. Tamura) 43 #3372

L-regular semigroups. I. *Kyungpook Math. J.* 10 (1970), 97-103. (T. Tamura) 43 #2137

I-regular semigroups. *Math. Japon.* 15 (1970), 91-100. (T. Tamura) 44 #5398

Warne, W. G.

(with Elliott, David) An algorighm for the numerical solution of linear integral equations. *ICC Bull.* 6 (1967), 207-224. (D. F. Mayers) 37 #3793

Warnecke, Gerhard

Über die Darstellung von Lösungen der partiellen Differentialgleichung $(1 + \delta z\bar{z})^2 w_{z\bar{z}} = \delta - \varepsilon e^{2w}$. *Bonn. Math. Schr. No.* 34 (1968), iii + 75 *pp.* (R. N. Pederson) 41 #2190

Über einige Probleme bei einer nichtlinearen Differentialgleichung zweiter Ordnung im Komplexen. *J. Reine Angew. Math.* 239/240 (1969), 353-362. (W. Strodt) 41 #615

Warner, C. Robert

Closed ideals in the group algebra $L^1(G) \cap L^2(G)$. *Trans. Amer. Math. Soc.* 121 (1966), 408-423. (R. E. Edwards) 32 #4476

A generalization of the Šilov-Weiner Tauberian theorem. *J. Functional Analysis* 4 (1969), 329-331. (C. F. Dunkl) 40 #649.

Warner, Frank W.

The conjugate locus of a Riemannian manifold. *Amer. J. Math.* 87 (1965), 575-604. (N. J. Hicks) 34 #8344

Extension of the Rauch comparison theorem to submanifolds. *Trans. Amer. Math. Soc.* 122 (1966), 341-356. (R. Hermann) 34 #759

Conjugate loci of constant order. *Ann. of Math.* (2) 86 (1967), 192-212. (J. Eells) 35 #4857

(with do Carmo, M. P.) Rigidity and convexity of hypersurfaces in spheres. *J. Differential Geometry* 4 (1970), 133-144. (J. P. Wilson) 42 #1014

(with Wallach, N. R.) Curvature forms for 2-manifolds. *Proc. Amer. Math. Soc.* 25 (1970), 712-713. (C.-C. Hsiung) 41 #7581

(with Kazdan, Jerry L.) Integrability conditions for $\Delta u = k - Ke^{\alpha u}$ with applications to Riemannian geometry. *Bull. Amer. Math. Soc.* 77 (1971), 819-823. (I. Chavel) 43 #8026

(with Kazdan, Jerry L.) Surfaces of revolution with monotonic increasing curvature and an application to the equation $\Delta u = 1 - Ke^{2u}$ on S^2. *Proc. Amer. Math. Soc.* 32 (1972), 139-141. (I. Chavel) 44 #7493

Warner, Garth

The generalized Weierstrass-type integral $\int f(\zeta, \phi)$. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 163-192. (J. K. Brooks) 40 #1569

The Burkill-Cesari integral. *Duke Math. J.* 35 (1968), 61-78. (E. Silverman) 36 #2769

Fourier-Stieltjes transforms on the generalized Lorentz group. *Illinois J. Math.* 13 (1969), 125-130. (R. C. Busby) 38 #6307

Warner, Kenneth K.

The spectrum of a linear operator under perturbation by certain compact operators. *Proc. Amer. Math. Soc.* 22 (1969), 667-671. (J. S. Howland) 39 #7462

A note on a theorem of Weyl. *Proc. Amer. Math. Soc.* 23 (1969), 469-471. (J. Nieto) 40 #3343

Warner, M. W.

The homology of tensor products. *Dissertationes Math. Rozprawy Mat.* 67 (1969), 29 pp. (Ronald Brown) 40 #6538

Warner, Seth

* Modern algebra. Vols. I, II. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1965. *Vol. I:* x + 457 + xi pp. *Vol. II:* x + pp. 459-806. (S. C. Acharyya) 32 #5681

Locally compact simple rings having minimal left ideals. *Trans. Amer. Math. Soc.* 125 (1966), 395-405. (K. G. Wolfson) 34 #2639

Compactly generated algebras over discrete fields. *Bull. Amer. Math. Soc.* 73 (1967), 227-230. (A. Mallios) 36 #5175

Locally compact semilocal rings. *Bull. Amer. Math. Soc.* 73 (1967), 906-908. (P. C. Deliyannis) 36 #3832

Two types of locally compact rings. *Bull. Amer. Math. Soc.* 74 (1968), 926-930. (M. E. Shanks) 37 #4133

Locally compact equicharacteristic semilocal rings. *Duke Math. J.* 35 (1968), 179-189. (C. F. Moppert) 36 #3833

Linearly compact noetherian rings. *Math. Ann.* 178 (1968), 53-61. (K. G. Wolfson) 38 #5864

Locally compact vector spaces and algebras over discrete fields. *Trans. Amer. Math. Soc.* 130 (1968), 463-493. (K. G. Wolfson) 36 #6900

Compact and finite-dimensional locally compact vector spaces. *Illinois J. Math.* 13 (1969), 383-393. (T. Husain) 39 #3282

Locally compact rings having a topologically nilpotent unit. *Trans. Amer. Math. Soc.* 139 (1969), 145-154. (K. H. Hofmann) 39 #2819

Locally compact principal ideal domains. *Math. Ann.* 188 (1970), 317-334. (M. Griffin) 42 #5987

* Classical modern algebra. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1971. xiii + 520 pp. (From the preface) 42 #2898

Metrizability of locally compact vector spaces. *Proc. Amer. Math. Soc.* 27 (1971), 511-513. (S. Swaminathan) 42 #5007

Sheltered modules and rings. *Proc. Amer. Math. Soc.* 30 (1971), 8-14. (V. I. Arnautov) 43 #7475

Warner, Stanley L.

Asymptotic variances for dummy variate regression under normality assumptions. *J. Amer. Statist. Assoc.* 62 (1967), 1305-1314. (M. J. Karson) 36 #7269

Warner, William H.

(with Antman, Stuart) Dynamic stability of circular rods. *J. Soc. Indust. Appl. Math.* 13 (1965), 1007-1018. (W. D. Kroll) 32 #8600

(with Antman, Stuart S.) Dynamical theory of hyperelastic rods. *Arch. Rational Mech. Anal.* 23 (1966), 135-162. (A. E. Green) 33 #8138

Warnock, J. E.

(with Sexauer, N. E.) The radical of the row-finite matrices over an arbitrary ring. *Trans. Amer. Math. Soc.* 139 (1969), 287-295. (E. M. Patterson) 39 #249

Warnock, Robert Lee

Motion of poles as a broken resonance multiplet approaches degeneracy. *Nuovo Cimento* (10) 32 (1964), 255-257. (S. L. Glashow) 29 #3175

(with Wali, K. C.) Breaking of SU(3) symmetry in the $(3/2)^+$ meson-baryon decuplet. *Phys. Rev.* (2) 135 (1964), B1358-B1368. (A. O. Barut) 30 #3718

(See also Wiener, Norbert; Siegel, Armand; Rankin, Bayard; Martin, William Ted, 35 #7394)

(with Ernst, Fredrick J.; Wali, Kameshwar C.) Linear and nonlinear mass-difference effects in a model of the baryon multiples. *Phys. Rev.* (2) 141 (1966), 1354-1372. (P. Tarjanne) 33 #3663

(with McDaniel, H.) Bounds on coupling constants in existence theorems for the low equation. (Italian and Russian summaries) *Nuovo Cimento A* (10) 64 (1969), 905-926. (K. Kumar) 40 #5213

(with Atkinson, D.) Persistence of the Castillejo-Dalitz-Dyson ambiguity in relativistic crossing-symmetric amplitudes. *Phys. Rev.* (2) 188 (1969), 2098-2111. (K. Kumar) 40 #8379

Warowna-Dorau, Genowefa

Application of the method of successive approximations to a non-linear Hilbert problem in the class of generalized analytic functions. *Demonstratio Math.* 2 (1970), *no.* 2, 15-30. (M. O. Gonzalez) 43 #2228

Warrack, Brian

(with Naimpally, Somashekhar) Clusters and ultrafilters. *Publ. Inst. Math. (Beograd) (N.S.)* 8(22) (1968), 100-101. (D. C. Kent) 37 #4784

(with Naimpally, S. A.) On completion of a uniform space by local clusters. *Contributions to Extension Theory of Topological Structures (Proc. Sympos., Berlin, 1967), pp.* 239-241. *Deutsch. Verlag Wissensch., Berlin,* 1969. (D. C. Kent) 40 #1988

* (with Naimpally, S. A.) Proximity spaces. Cambridge Tracts in Mathematics and Mathematical Physics, No. 59. *Cambridge University Press. London-New York,* 1970. x + 128 pp. (Eugene F. Steiner) 43 #3992

Warren, Hugh E.

Partitions by real algebraic varieties, and applications to questions of nonlinear approximation. *Bull. Amer. Math. Soc.* 73 (1967), 192-194. (E. W. Cheney) 35 #642

Lower bounds for approximation by nonlinear manifolds. *Trans. Amer. Math. Soc.* 133 (1968), 167-178. (E. J. Akutowicz) 37 #1871

A construction of certain nonlinear approximating families. *Proc. Amer. Math. Soc.* 21 (1969), 467-470. (G. G. Lorentz) 38 #6284

A special basis for $C([0, 1])$. *Proc. Amer. Math. Soc.* 27 (1971), 495-499. (D. Boyd) 42 #5023

A Riemann mapping theorem for $C(X)$. *Proc. Amer. Math. Soc.* 28 (1971), 147-154. (C. C. Wu) 43 #5300

Warren, Joseph

Annular functions. *J. Reine Angew. Math.* 245 (1970), 143-148. (P. Lappan) 42 #6243

Non-constant meromorphic functions and sequences of arcs. *J. Reine Angew. Math.* 251 (1971), 81-90. (D. Drasin) 44 #1812

Warren, Joseph E.

(with Price, Harvey S.; Varga, Richard S.) Application of oscillation matrices to diffusion-convection equations. *J. Math. and Phys.* 45 (1966), 301-311. (L. Collatz) 34 #7046

Warren, Leroy J.

(with Subbarao, M. V.) Unitary perfect numbers. *Canad. Math. Bull.* 9 (1966), 147-153. (H. J. Godwin) 33 #3994

(with Bray, Henry G.) On the square-freeness of Fermat and Mersenne numbers. *Pacific J. Math.* 22 (1967), 563-564. (F. Herzog) 36 #3718

Warren, Russell E.

(with Klink, William H.) Model-independent analysis of nonrelativistic multiparticle reactions. *J. Mathematical Phys.* 11 (1970), 1155-1164. (N. Mukunda) 42 #5535

Warren, W. E.

(with Holmes, W. T.) Thermal stress concentrations in a tooth. (German summary) *Acta Mech.* 1 (1965), 54-59. (B. A. Boley) 31 #972

Thermal stress concentrations in a notched half-plane. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 192-193. (G. Rieder) 30 #4415

Warrinnier, A.

Sur le lissage d'une variété triangulée. I. *Bull. Soc. Math. Belg.* 20 (1968), 16-35. (W. A. LaBach) 39 #3515

Sur le lissage d'une variété triangulée. II. *Bull. Soc. Math. Belg.* 21 (1969), 3-15. (W. A. LaBach) 41 #2693

Warschawski, S. E.

(with Schober, G. E.) On conformal mapping of certain classes of Jordan domains. *Arch. Rational Mech. Anal.* 22 (1966), 201-209. (T. Kubo) 33 #266

On the boundary behavior of conformal maps. *Nagoya Math. J.* 30 (1967), 83-101. (B. G. Eke) 36 #6600

On boundary derivatives in conformal mapping. *Ann. Acad. Sci. Fenn. Ser. A I No.* 420 (1968), 22 *pp.* (J. E. McMillan) 38 #3418

On Hölder continuity at the boundary in conformal maps. *J. Math. Mech.* 18 (1968/69), 423-427. (G. Schober) 38 #1242

A perturbation method in conformal mapping. *Aequationes Math.* 3 (1969), 64-85. (D. Gaier) 41 #447

(with Eke, B. G.) On the distortion of conformal maps at the boundary. *J. London Math. Soc.* 44 (1969), 625-630. (E. Reich) 39 #4369

The Lichtenstein-Gershgorin integral equation in conformal mapping of variable domains. *J. Math. Mech.* 19 (1969/70), 1131-1153. (D. Gaier) 42 #1986

Boundary derivatives of minimal surfaces. *Arch. Rational Mech. Anal.* 38 (1970), 241-256. (R. Osserman) 41 #7549

Remarks on the angular derivative. *Nagoya Math. J.* 41 (1971), 19-32. (B. G. Eke) 43 #493

Warsi, N. A.

On curved shock wave in three-dimensional conducting gas flows. *Proc. Nat. Inst. Sci. India Part A* 30 (1964), 7-17. (Author's summary) 29 #6760

On curvature and torsion of stream line and magnetic line of force behind magnetogasdynamic shock wave. *Tensor (N.S.)* 15 (1964), 128-141. (R. P. Kanwal) 29 #881

On flow-transition through several shock surfaces. *Tensor (N.S.)* 15 (1964), 142-144. (Author's summary) 30 #5638

On steady plane flows of magnetogasdynamics. *Tensor (N.S.)* 15 (1964), 275-281. (R. P. Kanwal) 29 #4556

On group-properties of jump-relations of magnetogasdynamics. *Tensor (N.S.)* 16 (1965), 187-192. (R. P. Kanwal) 30 #5667

Warsi, Z. U. A.

(with Kumar, Ram) Steady motion of viscous compressible fluid through circular and co-axial pipes. *Bull. Calcutta Math. Soc.* 55 (1963), 131-137. (D. R. Breach) 29 #6728

Wartak, J.

Application of mathematical logic (Propositional calculus) to medical diagnosis. (Polish. English and Russian summaries) *Zastos. Mat.* 7 (1964), 335-344. (From the author's summary) 30 #5829

Warten, Ralph M.

(with Fowler, M. E.) A numerical integration technique for ordinary differential equations with widely separated eigenvalues. *IBM J. Res. Develop.* 11 (1967), 537-543. (J. W. Daniel) 35 #7586

Wartique, J. M.

Sur une forme canonique des équations de la magnétohydrodynamique. *Bull. Soc. Roy. Sci. Liège* 37 (1968), 428-432. (Author's summary) 38 #5428

Warzecha, A.

(with Sawoń, Z.) On the general form of subalgebras of codimension 1 of *B*-algebras with a unit. *Studia Math.* 29 (1968), 249-260. (P. Civin) 37 #1995

The general form of subslgebras with unity of finite codimension of *B*-algebras with unity. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 237-242. (P. Civin) 40 #7803

Wasan, Kamlesh

(with Singh, Surjeet) Commutative self-injective rings. *Canad. J. Math.* 22 (1970), 1101-1108. (Y. Utumi) 42 #1817

(with Singh, Surjeet) Pseudo-injective modules over commutative rings. *J. Indian Math. Soc. (N.S.)* 34 (1970), 61-65 (1971). (M. Teply) 44 #6676

Wasan, M. T.

Sequential optimum procedures for unbiased estimation of a binomial parameter. *Technometrics* 6 (1964), 259-271. (D. G. Chapman) 32 #3200

Sequential estimation of a binomial parameter. *Classical and Contagious Discrete Distributions (Proc. Internat. Sympos., McGill Univ., Montreal, Que., 1963), pp.* 263-272. *Statistical Publishing Society, Calcutta,* 1965. (D. G. Chapman) 35 #3833

(with Roy, L. K.) The first passage time distribution of Brownian motion with positive drift. *Math. Biosci.* 3 (1968), 191-204. 38 #6671

(with Roy, L. K.) Some characteristic properties of the time distribution of standard Brownian motion. *Publ. Inst. Statist. Univ. Paris* 17 (1968), *fasc.* 3, 29-38. (N. U. Prabhu) 44 #1115

On an inverse Gaussian process. *Skand. Aktuarietidskr.* 1968, 69-96. (J. Bass) 39 #3574

(with Roy, L. K.) Properties of the time distribution of standard Brownian motion. *Trabajos Estadíst.* 19 (1968), 67-82. (J. R. Kinney) 38 #3923

* Stochastic approximation. Cambridge Tracts in Mathematics and Mathematical Physics, No. 58. *Cambridge University Press, London-New York,* 1969. x + 202 *pp.* (From the author's introduction) 40 #975

Sufficient conditions for a first passage time process to be that of Brownian motion. *J. Appl. Probability* 6 (1969), 218-223. (E. S. Boylan) 39 #4938

* First passage time distribution of Brownian motion with positive drift (inverse Gaussian distribution). Queen's Papers in Pure and Applied Mathematics, No. 19. *Queen's University, Kingston, Ont.,* 1969. v + 311 *pp.* (Simeon M. Berman) 41 #2774

(with Roy, L. K.) Tables of inverse Gaussian percentage points. *Technometrics* 11 (1969), 591-604. 39 #6432

(with Gupta, R. P.) Bivariate time distribution of Brownian motion. *Trabajos Estadist.* 20 (1969), 117-128. 41 #7763

(See also Mathematical aspects of life sciences, 42 #8943)

Wasan, R. K.

Application of queuing theory for determination of an inventory. *J. Indian Statist. Assoc.* 2 (1964), 234-241. 32 #3169

Behaviour of a complex system with regard to dependability. *Math. Student* 35 (1967), 147-153 (1969). (P. Fortunati) 40 #8437

Wäsche, H.

Eine Bemerkung zur eindeutigen Primfaktorenzerlegung in Halbgruppen. *Elem. Math.* 24 (1969), 37-38. (O. Steinfeld) 40 #1511

Washenberger, James K.

Fredholm operators: A counterexample. *Proc. Amer. Math. Soc.* 21 (1969), 739-740. (A. Pietsch) 39 #7388

Washihara, Masako

On ranked spaces and linearity. *Proc. Japan Acad.* 43 (1967), 584-589. (B. Fishel) 37 #3311

The continuity and the boundedness of linear functionals on linear ranked spaces. *Proc. Japan Acad.* 43 (1967), 590-593. (B. Fishel) 37 #3312

(with Yoshida, Yukio) Remarks on bounded sets in linear ranked spaces. *Proc. Japan Acad.* 44 (1968), 73-76. (B. Fishel) 37 #6729

On the ranked group. *Proc. Japan Acad.* 44 (1968), 246-250. (B. Fishel) 37 #6730

On ranked spaces and linearity. II. *Proc. Japan Acad.* 45 (1969), 238-242. (B. Fishel) 40 #3264

Washimiya, Shûkô

(with Shinagawa, Kohsei; Sugano, Satoru) Effective Hamiltonian for non-Kramers doublets. *Phys. Rev. B* (3) 1 (1970), 2976-2985. (Gerald Rosen) 41 #4936

Washio, Tadashi

On a pseudo-different in an algebraic function field of one variable. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 23 (1969), 28-32. (J. V. Armitage) 42 #242

A remark on the trace formula for an inseparable correspondence in an algebraic function field. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 231-237. (M. L. Madan) 42 #7644

Washizu, Kyuichiro

Some considerations on a naturally curved and twisted slender beam. *J. Math. and Phys.* 43 (1964), 111-116. (W. D. Kroll) 29 #783

Washnitzer, G.

(with Monsky, P.) The construction of formal cohomology sheaves. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1511-1514. (J. Dieudonné) 30 #2014

(with Monsky, P.) Formal cohomology. I. *Ann. of Math.* (2) 88 (1968), 181-217. (W. E. Fulton) 40 #1395

Wasiljeff, Alexander

Verallgemeinerung einer Summenformel von Neumann und Lommel. (English summary) *Z. Angew. Math. Phys.* 20 (1969), 389-402. (C. J. Bouwkamp) 39 #7172

Wasow, Wolfgang R.

On holomorphically similar matrices. *J. Math. Anal. Appl.* 4 (1962), 202-206. (R. J. Newman) 30 #4774

* (with Forsythe, George E.) Разностные методы решения дифференциальных уравнений в частных производных. (Russian) [Finite-difference methods for partial differential equations] Translated from the English by B. M. Budak and N. P. Židkov. *Izdat. Inostran. Lit., Moscow,* 1963. 487 *pp.* (Editors) 33 #1608

Asymptotic expansions for ordinary differential equations: Trends and problems. *Asymptotic Solutions of Differential Equations and Their Applications (Proc. Sympos., Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis., 1964), pp.* 3-26. *Wiley, New York,* 1964. (T. M. Cherry) 29 #3724

Asymptotic decomposition of systems of linear differential equations having poles with respect to a parameter. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 329-344. (T. Kimura) 33 #6066

* Asymptotic expansions for ordinary differential equations. Pure and Applied Mathematics, Vol. XIV. *Interscience Publishers [John Wiley & Sons, Inc.], New York-London-Sydney,* 1965. ix + 362 *pp.* (N. D. Kazarinoff) 34 #3041

On turning point problems for systems with almost diagonal coefficient matrix. *Funkcial. Ekvac.* 8 (1966), 143-171. (N. D. Kazarinoff) 34 #449

On the analytic validity of formal simplifications of linear differential equations. I. *Funkcial. Ekvac.* 9 (1966), 83-91. (Y. Sibuya) 35 #3179

Asymptotic simplification of self-adjoint differential equations with a parameter. *J. Differential Equations* 2 (1966), 378-390. (Y. Sibuya) 34 #4632

On the analytic validity of formal simplifications of linear differential equations. II. *Funkcial. Ekvac.* 10 (1967), 107-122. (Y. Sibuya) 37 #3124

Connection problems for asymptotic series. *Bull. Amer. Math. Soc.* 74 (1968), 831-853. (R. E. O'Malley, Jr.) 37 #4336

The capriciousness of singular perturbations. *Nieuw Arch. Wisk.* (3) 18 (1970), 190-210. (J. Burlak) 43 #3581

Simple turning-point problems in unbounded domains. *SIAM J. Math. Anal.* 1 (1970), 153-170. (N. D. Kazarinoff) 41 #3901

The central connection problem at turning points of linear differential equations. *Comment. Math. Helv.* 46 (1971), 65-86. (P. F. Hsieh) 44 #2992

Wąsowski, J.

Maximum principle for a certain strongly elliptic system of linear equation of second order. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 741-745. (E. Giusti) 44 #3020

Wassef, Pierre

Une application de la théorie ergodique à la théorie métrique des fractions continues. *Séminaire Delange-Pisot-Poitou: 1969/70, Théorie des Nombres, Fasc.* 1, *Exp.* 8, 10 *pp. Secrétariat mathématique, Paris,* 1970. (F. Schweiger) 43 #6162

Sur la réciproque d'un résultat de Furstenberg. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A56-A58. (Author's summary) 43 #482

Wasserman, A.

(with Buckholtz, T. J.; DeWitt, H. E.) Evaluation of some Fermi-Dirac integrals. *J. Mathematical Phys.* 11 (1970), 477-482. (T. Izuyama) 41 #3048

Wasserman, Arthur G.

Morse theory for *G*-manifolds. *Bull. Amer. Math. Soc.* 71 (1965), 384-388. (J. Eells) 30 #4271

Cobordism of group actions. *Bull. Amer. Math. Soc.* 72 (1966), 866-869. (C. N. Lee) 37 #6943

(with Lazarov, Connor) Cobordism of regular $O(n)$-manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 1365-1368. (A. Liulevicius) 40 #8064

Equivariant differential topology. *Topology* 8 (1969), 127-150. (R. Z. Goldstein) 40 #3563

(with Lazarov, Connor) Cobordism of regular $O(n)$-manifolds. *Ann. of Math.* (2) 93 (1971), 229-251. (M. Mahowald) 44 #3329

Wasserman, Robert H.

On the geometry of magnetohydrodynamic flow. *Quart. J. Mech. Appl. Math.* 20 (1967), 219-231. (Author's summary) 37 #4996

Waszak, Aleksander

On strong summability in Orlicz metrics by integral methods. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 793-796. (D. H. Tucker) 39 #680

Some remarks on Orlicz spaces of strongly (A, ϕ)-summable sequences. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 265-269. (A. Alexiewicz) 36 #568

On spaces of strongly summable sequences with an Orlicz metric. *Prace Mat.* 11 (1968), 229-246. (S. Heckscher) 40 #1768

Strong summability of functions in Orlicz metrics. *Prace Mat.* 12 (1968), 115-139. (D. Boyd) 38 #4985

(with Musielak, J.) Estimates for the sums of Cesàro multipliers. (Polish and Russian summaries) *Fasc. Math. No.* 4 (1969), 41-44 (1970). (F. P. Cass) 41 #7333

Linear functionals in Orlicz spaces of strongly $|A, \phi|$-summable sequences. *Prace Mat.* 13 (1969), 97-105. (J. Schmets) 40 #6122

(with Musielak, J.) Countably modulared spaces connected with equisplittable families of measures. *Comment. Math. Prace Mat.* 13 (1970), 267-274. (R. Aguiló Fuster) 42 #3558

(with Musielak, J.) On some countably modulared spaces. Proceedings of the International Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 51-57. *(errata insert)* (W. A. J. Luxemburg) 44 #768

Waszczyszyn, Z.

(with Zyczkowski, M.) Approximation formulas for the real roots of a cubic equation. (Polish. Russian and English summaries) *Zastos. Mat.* 8 (1966), 243-254. (A. Sharma) 34 #2175

Waszczyszyn, Zenon

Application of the collocation method to the computation of elasto-plastic deflections of beams with restricted possibility of shifting of supports. (Polish. Russian and English summaries) *Rozprawy Inż.* 13 (1965), 247-268. (A. M. Freudenthal) 33 #5197

Wasziewicz, Ludmiła Szczerbicka. See Szczerbicka-Wasziewicz, Ludmiła.

Waszkiewicz, J.

(with Węglorz, B.) Some models of theories of reduced powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 683-685. (E. Engeler) 38 #5602

(with Węglorz, B.) On ω_0-categoricity of powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 195-199. (G. Fuhrken) 41 #3262

(with Węglorz, Bogdan) On products of structures for generalized logics. (Polish and Russian summaries) *Studia Logica* 25 (1969), 7-15. (S. Feferman) 41 #8220

A remark on Engeler's filter-images. *Colloq. Math.* 21 (1970), 165-167. (D. Monk) 42 #53

Waszkiewicz, Jadwiga

Sur certains problèmes extrêmaux dans la famille des fonctions univalentes bornées inférieurement dans le cercle $K(\infty, 1)$. *Bull. Soc. Sci. Lettres Łódź* 14 (1963), *no.* 3, 30 *pp.* (J. L. Kazdan) 29 #3624

Watabe, Mitsuo

(with Henin, F.; Prigogine, I.; Résibois, P.) Kinetic equations, quasiparticles and renormalization. *Phys. Lett.* 16 (1965), 253-254. (S. Fujita) 32 #8909

(with Yamada, Kazuo; Ichikawa, Yoshihiko) Remark on the kinetic equation in an unstable plasma. *Progr. Theoret. Phys.* 34 (1965), 383-398. (R. Balescu) 32 #8936

Watabe, Tsuyoshi

(with Hirose, Tunehisa) On the immersibility of almost parallelizable manifolds. *Proc. Japan Acad.* 39 (1963), 715-716. (R. H. Szczarba) 29 #1648

(with Hirose, T.) On the immersibility of almost parallelizable manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 1 (1964), 1-3. (R. H. Szczarba) 29 #2816

Imbedding and immersion of projective spaces. *Sci. Rep. Niigata Univ. Ser. A No.* 2 (1965), 11.16. (J. P. Levine) 36 #7152

A note on the imbeddability and immersibility of the total spaces of sphere bundle over sphere. *Sci. Rep. Niigata Univ. Ser. A No.* 2 (1965), 17-25. (J. P. Levine) 37 #929

(with Yoshioka, Tomoaki) On the imbeddability and immersibility of the total spaces of sphere bundles over real projective space. *Sci. Rep. Niigata Univ. Ser. A No.* 2 (1965), 26-32. (J. P. Levine) 36 #7153

On imbedding closed 4-dimensional manifolds in Euclidean space. *Sci. Rep. Niigata Univ. Ser. A No.* 3 (1966), 9-13. (H. Suzuki) 34 #8422

$SO(r)$-cobordism and embedding of 4-manifolds. *Osaka J. Math.* 4 (1967), 133-140. (P. S. Landweber) 36 #2163

Remarks on certain 14-manifolds. *Sci. Rep. Niigata Univ. Ser. A No.* 4 (1967), 1-6. (R. K. Lashof) 35 #3680

A remark on the embeddability of n-manifolds in $(2n-2)$-space. *Sci. Rep. Niigata Univ. Ser. A No.* 5 (1967), 17-22. (M. Mahowald) 38 #5236

Wataghin, G.

Sur une théorie non locale. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 1 (1964), 47-53. (R. L. Ingraham) 33 #1035

Watanabe, Chikara

On normality of a family of analytic sets. *Sci. Rep. Kanazawa Univ.* 12 (1967), 209-213. (K. Peters) 39 #475

On a family of pure-dimensional analytic sets. *Sci. Rep. Kanazawa Univ.* 13 (1968), 73-82. (S. Hitotumatu) 39 #3028

A remark on the theorem of Bishop. *Proc. Japan Acad.* 45 (1969), 243-246. (J. Kajiwara) 40 #7477

A note on a difinition of (G)-convergence. *Sci. Rep. Kanazawa Univ.* 14 (1969), 59-60. (H. J. Biesterfeldt, Jr.) 42 #1051

Watanabe, H.

(with Kamefuchi, S.) Lagrangian approach to infinite component field theory. *Nuclear Phys.* B8 (1968), 573-590. (G. R. Allcock) 42 #7205

Watanabe, Hiroshi

A few topics in linear programming. (Japanese) *Linear Programming (JUSE Sympos. Math. Programming, Ser. No.* 3, *1962), pp.* 1-13. *Japanese Union of Science and Engineering, Tokyo,* 1962. (M. Aoki) 30 #4597

Summability of double Fourier series. *Tôhoku Math. J.* (2) 17 (1965), 150-160. (U. C. Guha) 34 #8095

Watanabe, Hisako

On Dirichlet spaces with homeomorphic Silov boundaries. *Natur. Sci. Rep. Ochanomizu Univ.* 21 (1970), 19-22. (H. S. Bear) 42 #8293

Watanabe, Hisao

Potential operator of a recurrent strong Feller process in the strict sense and boundary value problem. *J. Math. Soc. Japan* 16 (1964), 83-95. (K. L. Chung) 32 #6555 (with Sirao, Tunekiti) On the Hölder continuity of stationary Gaussian processes. *Proc. Japan Acad.* 44 (1968), 482-484. (T. Hida) 38 #3917

An asymptotic property of Gaussian stationary processes. *Proc. Japan Acad.* 44 (1968), 895-896. (F. Eicker) 39 #1014

(with Sirao, Tunekiti) On the upper and lower class for stationary Gaussian processes. *Trans. Amer. Math. Soc.* 147 (1970), 301-331. (E. J. Hannan) 41 #1111

An asymptotic property of Gaussian processes. I. *Trans. Amer. Math. Soc.* 148 (1970), 233-248. (J. A. Beekman) 41 #1134

Watanabe, Hitoshi

(with Ishizaki, Yasutoshi; Wakazuki, Hiroshi) Some considerations on min-max approximation problem for network design. *Proc. Third Annual Allerton Conf. on Circuit and System Theory*, pp. 786-793. *Univ. Illinois, Urbana, Ill.*, 1965. (Authors' summary) 39 #6672

(with Tsuchiya, T.; Ohtsuki, T.; Ishizaki, Y.; Kajitani, Y.; Kishi, G.) Topological degrees of freedom of electrical networks. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967)*, pp. 644-653. *Univ. of Illinois, Urbana, Ill.*, 1967. (Authors' summary) 41 #8166

(with Ohtsuki, Tatsuo; Ishizaki, Yasutoshi) Network analysis and topological degrees of freedom. *Electron. Commun. Japan* 51 (1968), *no.* 6, 33-40. (B. Hazeltine) 41 #9655

(with Ohtsuki, Tatsuo) State-variable analysis of RLC networks containing nonlinear coupling elements. *Electron. Commun. Japan* 51 (1968), *no.* 12, 26-35. (B. Hazeltine) 41 #9656

(with Ohtsuki, Tatsuo) State-variable analysis of RLC networks containing nonlinear coupling elements. *IEEE Trans. Circuit Theory* CT-16 (1969), 26-38. (Authors' summary) 42 #7421

(with Ohtsuki, Tatsuo; Ishizaki, Yasutoshi) Topological degrees of freedom and mixed analysis of electrical networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 491-499. (J. P. Roth) 43 #6006

atanabe, Ichie

An approach in the canonical formalism of quantum field theory. *Progr. Theoret. Phys.* 33 (1965), 946-963. (H. Araki) 32 #2068

atanabe, Jiro

Semi-groups of nonlinear operators on closed convex sets. *Proc. Japan Acad.* 45 (1969), 219-223. (T. Kato) 40 #7868

On nonlinear semigroups generated by cyclically dissipative sets. *J. Fac. Sci. Univ. Tokyo Sect. IA Math.* 18 (1971), 127-137. (J.-P. Gossez) 44 #7363

atanabe, Kei-ichi

(with Ishikawa, Takeshi; Tachibana, Sadao; Otsuka, Kayo) On tensor products of Gorenstein rings. *J. Math. Kyoto Univ.* 9 (1969), 413-423. (D. S. Rim) 41 #1716

atanabe, Keiji

(with Kanada, Hiroyuki) Phase shifts of pion-pion scattering. *Progr. Theoret. Phys.* 32 (1964), 254-262. (Authors' summary) 31 #4372

(with Ohnuki, Yoshio) Normalization of Bethe-Salpeter amplitude. *Nuovo Cimento* (10) 39 (1965), 772-775. (N. Nakanishi) 33 #2208

atanabe, Michiaki

(with Tanabe, Hiroki) Note on perturbation and degeneration of abstract differential equations in Banach space. *Funkcial. Ekvac.* 9 (1966), 163-170. (J. Smoller) 35 #517

On the abstract semi-linear differential equation. *Sci. Rep. Niigata Univ. Ser. A No.* 5 (1967), 9-16. (J. E. Lagnese) 38 #1379

Quasi-linear equations of evolution in a Banach space. *Sci. Rep. Niigata Univ. Ser. A No.* 6 (1968), 37-49. (J. Calvert) 39 #7258

On the abstract quasi-linear differential equation. *Sci. Rep. N Niigata Univ. Ser. A No.* 7 (1969), 1-16. (J. Prouse) 42 #639

atanabe, Mineko

Canonical conformal mappings of open Riemann surfaces. *J. Math. Kyoto Univ.* 3 (1963/64), 169-192. (G. Springer) 29 #3629

Contributions to the theory of differentials on open Riemann surfaces. *J. Math. Kyoto Univ.* 4 (1964), 77-97. (R. Accola) 31 #334

A remark on the Weierstrass points on open Riemann surfaces. *J. Math. Kyoto Univ.* 5 (1966), 185-192. (B. Rodin) 34 #2865

On a boundary property of principal functions. *Pacific J. Math.* 31 (1969), 537-545. (Y. K. Kwon) 40 #2852

atanabe, Satoshi

(with Suzuki, Yoshiya) Approximation of functions by generalized Meyer-König and Zeller operator. (Japanese summary) *Bull. Yamagata Univ. Natur. Sci.* 7 (1969), *no.* 2, 123-128. (A. Sharma) 41 #8893

(with Suzuki, Yoshiya) Some remarks on saturation problem in the local approximation. II. *Tôhoku Math. J.* (2) 21 (1969), 65-83. (G. Sunouchi) 39 #4572

atanabe, Satosi

Une explication mathématique du classement d'objets. (English summary) *Information and Prediction in Science*, pp. 39-76. *Academic Press, New York*, 1965. (M. Borillo) 33 #2487

A mathematical explication of inductive inference. *Colloq. Found. Math., Math. Machines and Appl. (Tihany, 1962)*, pp. 67-107. *Akad. Kiadó, Budapest*, 1965. (I. J. Good) 41 #8192

Conditional probability in physics. *Progr. Theoret. Phys. Suppl. (Extra Number, 1965)*, 135-160. (Author's summary) 34 #7174

Algebra of observation. *Suppl. Progr. Theoret. Phys. No.* 37/38 (1966), 350-367. (Author's summary) 34 #8748

Karhunen-Loève expansion and factor analysis: Theoretical remarks and applications. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965)*, pp. 635-660. *Academia, Prague*, 1967. (A. Rapoport) 38 #3084

Modified concepts of logic, probability, and information based on generalized continuous characteristic function. *Information and Control* 15 (1969), 1-21. (B. Forte) 42 #2864

Watanabe, Seiji

Note on positive linear maps of Banach algebras with an involution. *Sci. Rep. Niigata Univ. Ser. A No.* 7 (1969), 17-21. (B. Yood) 42 #855

Positive linear maps of Banach algebras with an involution. *Sci. Rep. Niigata Univ. Ser. A No.* 8 (1971), 1-6. (G. Maltese) 44 #2041

Watanabe, Shigeru

Periodicity of Post's normal process of tag. *Proc. Sympos. Math. Theory of Automata (New York, 1962)*, pp. 83-99. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.*, 1963. (Author's summary) 30 #1045

Watanabe, Shigeyoshi

(with Sakaguchi, Kōichi) On close-to-convex functions. *J. Nara Gakugei Univ. Natur. Sci.* 14 (1966), 7-12. (M. Reade) 34 #6065

Watanabe, Shinzo

(with Motoo, Minoru) On a class of additive functionals of Markov processes. *J. Math. Kyoto Univ.* 4 (1964/65), 429-469. (H. P. McKean, Jr.) 33 #4994

On discontinuous additive functionals and Lévy measures of a Markov process. *Japan. J. Math.* 34 (1964), 53-70. (F. B. Knight) 32 #3137

(with Takeuchi, Junji) Spitzer's test for the Cauchy process on the line. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3 204-210 (1964). (F. L. Spitzer) 30 #2545

(with Itô, Kiyosi) Transformation of Markov processes by multiplicative functionals. *Ann. Inst. Fourier (Grenoble)* 15 (1965), *fasc.* 1, 13-30. (H. P. McKean, Jr.) 32 #1755

On the branching process for Brownian particles with an absorbing boundary. *J. Math. Kyoto Univ.* 4 (1965), 385-398. (P. E. Ney) 31 #2762

(with Ikeda, Nobuyuki; Nagasawa, Masao) On branching Markov processes. *Proc. Japan Acad.* 41 (1965), 816-821. (K. Dietz) 34 #2068

(with Ikeda, Nobuyuki; Nagasawa, Masao) Fundamental equations of branching Markov processes. *Proc. Japan Acad.* 42 (1966), 252-257. (K. Dietz) 34 #2069

(with Ikeda, Nobuyuki; Nagasawa, Masao) A construction of Markov processes by piecing out. *Proc. Japan Acad.* 42 (1966), 370-375. (J. F. C. Kingman) 34 #2070

(with Ikeda, Nobuyuki; Nagasawa, Masao) A construction of branching Markov processes. *Proc. Japan Acad.* 42 (1966), 380-384. (J. F. C. Kingman) 34 #2071

(with Ikeda, Nobuyuki; Nagasawa, Masao) Transformation of branching Markov processes. *Proc. Japan Acad.* 42 (1966), 719-724. (G. E. Danzel) 35 #3734

(with Ikeda, Nobuyuki; Nagasawa, Masao) On branching semi-groups. I, II. *Proc. Japan Acad.* 42 (1966), 1016-1021; 1022-1026. (J. F. C. Kingman) 35 #3735

(See also Schwartz, Laurent, 36 #3944)

Limit theorem for a class of branching processes. *Markov Processes and Potential Theory (Proc. Sympos. Math. Res. Center, Madison, Wis., 1967)*, pp. 205-232. *Wiley, New York*, 1967. (P. E. Ney) 38 #5300

(with Kunita, Hiroshi) On square integrable martingales. *Nagoya Math. J.* 30 (1967), 209-245. (F. B. Knight) 36 #945

(with Fujita, Hiroshi) On the uniqueness and non-uniqueness of solutions of initial value problems for some quasi-linear parabolic equations. *Comm. Pure Appl. Math.* 21 (1968), 631-652. (K. Hawlitschek) 38 #2448

A limit theorem of branching processes and continuous state branching processes. *J. Math. Kyoto Univ.* 8 (1968), 141-167. (P. E. Ney) 38 #5301

(with Ikeda, Nobuyuki; Nagasawa, Masao) Branching Markov processes. I. *J. Math. Kyoto Univ.* 8 (1968), 233-278. (J. F. C. Kingman) 38 #764

(with Ikeda, Nobuyuki; Nagasawa, Masao) Branching Markov processes. II. *J. Math. Kyoto Univ.* 8 (1968), 365-410. (J. F. C. Kingman) 38 #6677 (E)

(with Ikeda, Nobuyuki; Nagasawa, Masao) Branching Markov processes. III. *J. Math. Kyoto Univ.* 9 (1969), 95-160. (J. F. C. Kingman) 39 #7680

On two dimensional Markov processes with branching property. *Trans. Amer. Math. Soc.* 136 (1969), 447-466. (J. G. Wendel) 38 #2848 (with Ikeda, Nobuyuki) On uniqueness and non-uniqueness of solutions for a class of non-linear equations and explosion problem for branching processes. *J. Fac. Sci. Univ. Tokyo Sect. I* 17 (1970), 187-214. (H. Kesten) 43 #3655

(with Watanabe, Toitsu) Convergence of isotropic scattering transport process to Brownian motion. *Nagoya Math. J.* 40 (1970), 161-171. (H. Bauer) 43 #5606

(with Yamada, Toshio) On the uniqueness of solutions of stochastic differential equations. *J. Math. Kyoto Univ.* 11 (1971), 155-167. (C. P. Tsokos) 43 #4150

On stochastic differential equations for multi-dimensional diffusion processes with boundary conditions. *J. Math. Kyoto Univ.* 11 (1971), 169-180. (J. A. Goldstein) 43 #1291

(with Ikeda, Nobuyuki; Nagasawa, Masao) Correction to "Branching Markov processes. II". *J. Math. Kyoto Univ.* 11 (1971), 195-196. (Editors) 42 #5344

On stochastic differential equations for multi-dimensional diffusion processes with boundary conditions. II. *J. Math. Kyoto Univ.* 11 (1971), 545-551. (J. A. Goldstein) 44 #4815

(with Yamada, Toshio) On the uniqueness of solutions of stochastic differential equations. II. *J. Math. Kyoto Univ.* 11 (1971), 553-563. (C. P. Tsokos) 44 #6071

(with Kawazu, Kiyoshi) Branching processes with immigration and related limit theorems. *Teor. Verojatnost. i Primenen.* 16 (1971), 34-51. (Bernard Harris) 44 #7656

Watanabe, Shôji

A remark on the theory of general geometrodynamics. *J. Math. Mech.* 13 (1964), 547. (G. F. R. Ellis) 29 #4583

On hypersurfaces of spaces belonging to certain transformation group. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 137-145. (M. Kawaguchi) 33 #7972

On hypersurfaces of spaces belonging to certain transformation group. II. *Tensor (N.S.)* 18 (1967), 90-96. (T. Ohkubo) 36 #2099

Watanabe, Takesi

(with Kunita, Hiroshi) On Markov chains and Martin boundaries. (Japanese) *Sûgaku* 13 (1961/62), 12-30. 36 #6013a

(with Kunita, Hiroshi) On Markov chains and Martin boundaries. II. (Japanese) *Sûgaku* 14 (1962/63), 81-94. 36 #6013b

A remark on the strong Markov property. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 17 (1963), 176-180. (R. Pyke) 29 #659

(with Kunita, Hiroshi) Notes on transformations of Markov processes connected with multiplicative functionals. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 17 (1963), 181-191. (R. Pyke) 29 #661

(with Kunita, Hiroshi) Markov processes and Martin boundaries. I. *Illinois J. Math.* 9 (1965), 485-526. (F. B. Knight) 31 #5240

(with Kunita, Hiroshi) On certain reversed processes and their applications to potential theory and boundary theory. *J. Math. Mech.* 15 (1966), 393-434. (C. Stone) 33 #1891

(with Kunita, Hiroshi) Some theorems concerning resolvents over locally compact spaces. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part 2*, pp. 131-164. *Univ. California Press, Berkeley, Calif.*, 1967. (F. B. Knight) 35 #4999

(with Yosida, Kôsaku; Tanaka, Hiroshi) On the pre-closedness of the potential operator. *J. Math. Soc. Japan* 20 (1968), 419-421. (D. W. Stroock) 37 #4282

(with Shiga, Tokuzo) On Markov chains similar to the reflecting barrier Brownian motion. *Osaka J. Math.* 5 (1968), 1-33. (W. E. Pruitt) 39 #7676

Watanabe, Tetsuro

On the henselization of local rings. *Mem. Defense Acad.* 5, *no.* 2, 145-149 (1965). (M. Nagata) 33 #2665

Comments on the cohomology groups of hypersurfaces. (Japanese) *Sûgaku* 17 (1965), 30-32. 34 #5837

On algebraic threefolds of restricted types. *Mem. Defense Acad.* 6 (1966/67), 349-353. (L. Roth) 35 #2887

Watanabe, Toitsu

Approximation of uniform transport process on a finite interval to Brownian motion. *Nagoya Math. J.* 32 (1968), 297-314. (G. Schay) 38 #774

Approximation of transport process by transport chain. *Proc. Japan Acad.* 44 (1968), 672-676. (G. Schay) 38 #5288

Weak convergence of the isotropic scattering transport process with one speed in the plane to Brownian motion. *Proc. Japan Acad.* 44 (1968), 677-680. (G. Schay) 38 #5289

Convergence of transport process to diffusion. *Proc. Japan Acad.* 45 (1969), 470-472. (G. Schay) 40 #8142

(with Watanabe, Shinzo) Convergence of isotropic scattering transport process to Brownian motion. *Nagoya Math. J.* 40 (1970), 161-171. (H. Bauer) 43 #5606

Watanabe, Yôiti

Asymptotic benaviours of adiabatic invariants. *Progr. Theoret. Phys.* 27 (1962), 653-664. 30 #5764

Watanabe, Yoshikatsu

The Student's distribution for a universe bounded at one or both sides. III. *J. Gakugei Tokushima Univ.* 13 (1962), 1-42. (I. Olkin) 31 #5267

Zur einigen Integral-Abschätzung. *J. Gakugei Tokushima Univ.* 13 (1962), 49-51. (A. E. Danese) 29 #284

The Student's distribution for a universe bounded at one or both sides. IV. *J. Gakugei Tokushima Univ.* 14 (1963), 1-53. (Author's introduction) 29 #5325

The Student's distribution for a universe bounded at one or both sides. V. *J. Gakugei Tokushima Univ.* 15 (1966), 1-35. (I. Olkin) 33 #8055

Watanabe, Yoshiko

Totally umbilical surfaces in normal contact Riemannian manifolds. *Kōdai Math. Sem. Rep.* 19 (1967), 474-487. (I. Chavel) 37 #863

Integral inequalities in compact orientable manifolds, Riemannian or Kählerian. *Kōdai Math. Sem. Rep.* 20 (1968), 264-271. (Y. Tashiro) 40 #1953

Watanabé, Yutaka

Simple algebras over a complete local ring. *Osaka J. Math.* 3 (1966), 13-20. (D. Kirby) 36 #6449

(with Endo, Shizuo) The centers of semi-simple algebras over a commutative ring. *Nagoya Math. J.* 30 (1967), 285-293. (L. J. Ratliff, Jr.) 35 #4256

The Dedekind different and the homological different. *Osaka J. Math.* 4 (1967), 227-231. (W. V. Vasconcelos) 37 #2795

(with Endo, Shizuo) On separable algebras over a commutative ring. *Osaka J. Math.* 4 (1967), 233-242. (W. V. Vasconcelos) 37 #2796

(with Endo, Shizuo) The centers of semi-simple algebras over a commutative ring. II. *Nagoya Math. J.* 39 (1970), 1-6. (L. J. Ratliff, Jr.) 41 #8461

Watari, Chinami

Mean convergence of Walsh-Fourier series. *Tôhoku Math. J.* (2) 16 (1964), 183-188. (K. Tandori) 34 #4806

Multipliers for Walsh-Fourier series. *Tôhoku Math. J.* (2) 16 (1964), 239-251. (K. Tandori) 34 #6426

On decomposition of Walsh Fourier series. *Tôhoku Math. J.* (2) 17 (1965), 76-86. (I. I. Hirschman, Jr.) 32 #318

Approximation of functions by a Walsh-Fourier series. *Applications of Walsh Functions (Proc. Sympos. and Workshop, Naval Research Lab., Washington, D. C.,* 1970*)*, pp. 166-169. *Naval Research Lab., Washington, D. C.*, 1970. (Editors) 42 #2242

van de Water, Arthur. See Van de Water, Arthur.

Waterhouse, William C.

On *UC* spaces. *Amer. Math. Monthly* 72 (1965), 634-635. (A. H. Stone) 32 #1673

Dual groups of vector spaces. *Pacific J. Math.* 26 (1968), 193-196. (S. O. Iyahen) 38 #516

(with Chernoff, P. R.; Rasala, R. A.) The Stone-Weierstrass theorem for valuable fields. *Pacific J. Math.* 27 (1968), 233-240. (H. Yanagihara) 38 #3253

Abelian varieties over finite fields. *Ann. Sci. École Norm. Sup.* (4) 2 (1969), 521-560. (M. J. Greenberg) 42 #279

A classification of almost full formal groups. *Proc. Amer. Math. Soc.* 20 (1969), 426-428. (J. Dieudonné) 38 #4487

The sign of the Gaussian sum. *J. Number Theory* 2 (1970), 363. (H. J. Godwin) 42 #4480

Automorphism schemes and forms of Witt Lie algebras. *J. Albegra* 17 (1971), 34-40. (S. Yuan) 43 #305

Divisor classes in pseudo Galois extensions. *Pacific J. Math.* 36 (1971), 541-548. (P. Samuel) 44 #1656

Principal homogeneous spaces and group scheme extensions. *Trans. Amer. Math. Soc.* 153 (1971), 181-189. (H. Yanagihara) 42 #4554

Waterman, Alan G.

(with Bergman, George M.) Connected fields of arbitrary characteristic. *J. Math. Kyoto Univ.* 5 (1966), 177-184. (B. R. Gelbaum) 34 #1314; erratum, 34, p. 1785.

The free lattice with 3 generators over N_5. *Portugal. Math.* 26 (1967), 285-288. (V. S. Krishnan) 42 #147

The normal completions of certain partially ordered vector spaces. *Proc. Amer. Math. Soc.* 25 (1970), 141-144. (D. G. Johnson) 41 #129

Waterman, Daniel

(with Husain, S. A.) Uniform convergence factors of orthogonal expansions. *Publ. Inst. Math. (Beograd) (N.S.)* 3(17) (1963), 89-92. (L. Leindler) 30 #2284

(with Nishiura, Togo) On the convergence of multiple power series. *Math. Z.* 91 (1966), 277-279. (J. A. Cima) 32 #7787

The local finite-area principle in the half-plane. *Proc. Amer. Math. Soc.* 17 (1966), 1012-1015. (J. L. Kazdan) 34 #1500

On the summability of the differentiated Fourier series. *Bull. Amer. Math. Soc.* 73 (1967), 109-112. (F. C. Hsiang) 34 #4815

(with Goffman, Casper) Functions whose compositions with homeomorphisms have everywhere convergent Fourier series. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill.,* 1967*)*, pp. 231-233. *Southern Illinois Univ. Press, Carbondale, Ill.*, 1968. (Editors) 37 #6671 (with Goffman, Casper) Functions whose Fourier series converge for every change of variable. *Proc. Amer. Math. Soc.* 19 (1968), 80-86. (H. Burkill) 36 #4245

W-systems are the Walsh functions. *Bull. Amer. Math. Soc.* 75 (1969), 139-142. (R. Liedl) 38 #2514

On the summability of the differentiated Fourier series. II. *Proc. Amer. Math. Soc.* 20 (1969), 342-344. (S. M. Mazhar) 39 #709

Reflexivity and summability. II. *Studia Math.* 32 (1969), 61-63. (S. Sakai) 39 #7399

(with Itô, Takashi; Barber, F.; Ratti, J.) Reflexivity and summability: the Nakano $l(p_i)$ spaces. *Studia Math.* 33 (1969), 141-146. (Z. Semadeni) 43 #880

(with Goffman, Casper) Some aspects of Fourier series. *Amer. Math. Monthly* 77 (1970), 119-133. (Editors) 40 #6155

On a problem of Steinhaus. *Studia Sci. Math. Hungar.* 5 (1970), 97-98. (L. Leindler) 42 #1175

Waterman, Michael S.

Some ergodic properties of multi-dimensional *f*-expansions. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 77-103. (W. Parry) 44 #173

A Kuzmin theorem for a class of number theoretic endomorphisms. *Acta Arith.* 19 (1971), 31-41. (F. Schweiger) 44 #5289

Waterman, P. C.

(with Yos, J. M.; Abodeely, R. J.) Numerical integration of non-analytic functions. *J. Math. and Phys.* 43 (1964), 45-50. (R. E. Barnhill) 35 #6369

(with Fikioris, J. G.) Multiple scattering of waves. II. "Hole corrections" in the scalar case. *J. Mathematical Phys.* 5 (1964), 1413-1420. (R. N. Goss) 29 #4441

Waters, Neville D.

(with Walters, Ken) A note on the formulation of simple equations of state for slastico-viscous liquids. (French summary) *Z. Angew. Math. Phys.* 14 (1963), 742-745. (B. D. Coleman) 30 #4462

Waterston, Robin J.

Circular and transverse wave solutions of non-linear hyperbolic systems of equations. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 117-126. (A. Kawaguchi) 38 #4815

Watkins, Bruce O.

(with Henrici, P.) Finding zeros of a polynomial by the Q-D algorighm. *Comm. ACM* 8 (1965), 570-574. (Authors' summary) 31 #4172

Watkins, Charles E.

(with Lansing, Donald L.; Kantarges, George T.) Oscillating pressures within a cylindrical chamber that has a circular piston in one end wall. *J. Acoust. Soc. Amer.* 36 (1964), 2222-2232. (Authors' summary) 30 #3670

Watkins, Mark E.

(with Mesner, D. M.) Some theorems about *n*-vertex connected graphs. *J. Math. Mech.* 16 (1966), 321-326. (F. Harary) 34 #94

A lower bound for the number of vertices of a graph. *Amer. Math. Monthly* 74 (1967), 297. (W. T. Tutte) 34 #7407

(with Mesner, D. M.) Cycles and connectivity in graphs. *Canad. J. Math.* 19 (1967), 1319-1328. (M. D. Plummer) 36 #1355

A characterization of planar geodetic graphs. *J. Combinatorial Theory* 2 (1967), 102-103. (F. Harary) 34 #4166

On the existence of certain disjoint arcs in graphs. *Duke Math. J.* 35 (1968), 231-246. (F. Harary) 36 #6316

(with Stemple, Joel G.) On planar geodetic graphs. *J. Combinatorial Theory* 4 (1968), 101-117. (J. W. Moon) 36 #1354

A theorem on Tait colorings with an application to the generalized Petersen graphs. *J. Combinatorial Theory* 6 (1969), 152-164. (H. V. Kronk) 38 #4360

Some classes of hypoconnected vertex-transitive graphs. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics, 1968), pp.* 323-328. *Academic Press, New York,* 1969. (D. J. Miller) 41 #3316

A special crossing number for bipartite graphs: A research problem. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 405-410. (D. J. Kleitman) 42 #120

Connectivity of transitive graphs. *J. Combinatorial Theory* 8 (1970), 23-29. (E. A. Nordhaus) 42 #1707

On the action of non-Abelian groups on graphs. *J. Combinatorial Theory Ser. B* 11 (1971), 95-104. (J. Turner) 43 #6136

(with Frucht, Roberto; Graver, Jack E.) The groups of the generalized Petersen graphs. *Proc. Cambridge Philos. Soc.* 70 (1971), 211-218. (A. Mowshowitz) 44 #6556

Watkins, William

On the singular values of a product of matrices. *J. Res. Nat. Bur. Standards Sect. B* 74B (1970), 311-313. (A. S. Householder) 43 #235

(with Marcus, Marvin) Partitioned hermitian matrices. *Duke Math. J.* 38 (1971), 237-249. (M. F. Smiley) 43 #242

Watrasievicz, B. M.

Some useful integrals of Si(x), Ci(x) and related integrals. (French and German summaries) *Optica Acta* 14 (1967), 317-322. (S. D. Bajpai) 41 #2059

Sine and cosine integrals. *Optica Acta* 15 (1968), 195-196. (S. D. Bajpai) 41 #2060

Watson, A. G. D.

Limits on possible solutions of van der Pol's equation. *Quart. Appl. Math.* 26 (1968/69), 611. (Editors) 38 #3489

Watson, Bill

The first Betti numbers of certain locally trivial fibre spaces. *Bull. Amer. Math. Soc.* 78 (1972), 392-393. (J. Eells) 44 #7477

Watson, Donald

On quadrilateral spaces. *Amer. Math. Monthly* 74 (1967), 1213-1215. (M. F. Smiley) 36 #5670

On partitions of *N* points. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 263-264. (L. M. Blumenthal) 40 #4845

Watson, E. J.

The radial spread of a liquid jet over a horizontal plane. *J. Fluid Mech.* 20 (1964), 481-499. (N. Riley) 30 #1688

Watson, F. R.

A new method for solving simultaneous linear equations associated with multivariate analysis. *Psychometrika* 29 (1964), 75-86. (P. S. Dwyer) 29 #2909

Watson, G. A.

(with Osborne, M. R.) On the best linear Chebyshev approximation. *Comput. J.* 10 (1967), 172-177. (D. J. Evans) 36 #1892

(with Osborne, M. R.) Note on two methods of solving ordinary linear differential equations. *Comput. J.* 10 (1967/68), 383-384. (W. Sangren) 36 #7336

(with Osborne, M. R.) An algorighm for minimax approximation in the nonlinear case. *Comput. J.* 12 (1969/70), 63-68. (V. F. Dem'janov) 39 #6625

(with Osborne, M. R.) A note on singular minimax approximation problems. *J. Math. Anal. Appl.* 25 (1969), 692-700. (J. L. Fields) 38 #4002

(with Osborne, M. R.) On estimating best approximations of functions defined by differential equations. *Numer. Math.* 13 (1969), 199-206. (W. J. Kotzé) 40 #2215

On an algorithm for nonlinear minimax approximation. *Comm. ACM* 13 (1970), 160-162. (R. W. Cottle) 44 #3694

(with Osborne, M. R.) On an algorithm for discrete nonlinear L_1 approximation. *Comput. J.* 14 (1971), 184-188. (Authors' summary) 43 #4221

Watson, G. L.

A problem of Dade on quadratic forms. *Mathematika* 10 (1963), 101-106. (J. V. Armitage) 29 #3440

Cubic congruences. *Mathematika* 11 (1964), 142-150. (A. Gloden) 30 #1967

Cubic Diophantine equations: The necessary congruence condition. *Mathematika* 12 (1965), 30-38. (B. J. Birch) 31 #5835a

Cubic Diophantine equations: A supplementary congruence condition. *Mathematika* 12 (1965), 39-48. (B. J. Birch) 31 #5835b

Biquadratic congruences. *Mathematika* 12 (1965), 151-160. (D. J. Lewis) 32 #7500

Biquadratic congruences: An acknowledgement. *Mathematika* 13 (1966), 90. (Editors) 33 #5552

On the minimum of a positive quadratic form in n (≤ 8) variables. Verification of Blichfeldt's calculations. *Proc. Cambridge Philos. Soc.* 62 (1966), 719. (Editors) 33 #5571

Diophantine equations reducible to quadratics. *Proc. London Math. Soc.* (3) 17 (1967), 26-44. (B. J. Birch) 34 #4205

Non-homogeneous cubic equations. *Proc. London Math. Soc.* (3) 17 (1967), 271-295. (D. J. Lewis) 35 #2846

Asymmetric inequalities for indefinite quadratic forms. *Proc. London Math. Soc.* (3) 18 (1968), 95-113. (S. Konno) 36 #5080

A cubic Diophantine equation. *J. London Math. Soc.* (2) 1 (1969), 163-173. (H. London) 39 #6821

On the minimal points of perfect septenary quadratic forms. *Mathematika* 16 (1969), 170-177. (R. A. Rankin) 41 #1645

Cubic Diophantine equations with reducible cubic part. *Proc. London Math. Soc.* (3) 21 (1970), 181-200. (B. Stolt) 42 #1764

On the minimum points of a positive quadratic form. *Mathematika* 18 (1971), 60-70. (E. S. Barnes) 44 #6612

Watson, Geoffrey S.

(with Leadbetter, M. R.) Hazard analysis. I. *Biometrika* 51 (1964), 175-184. (W. L. Smith) 32 #1808

(with Wheeler, Stanley) A distribution-free two-sample test on a circle. *Biometrika* 51 (1964), 256-257. (Authors' summary) 30 #2609

(with Leadbetter, M. R.) Hazard analysis. II. *Sankhyā Ser. A* 26 (1964), 101-116. (W. L. Smith) 32 #1809

Smooth regression analysis. *Sankhyā Ser. A* 26 (1964), 359-372. (P. Whittle) 32 #3226

The distribution of organisms. *Biometrics* 21 (1965), 543-550. 32 #1032

Equatorial distributions on a sphere. Appendix by M. S. Stephens. *Biometrika* 52 (1965), 193-201. (P. A. P. Moran) 34 #6931

(with Box, G. E. P.) Corrigenda: "Robustness to non-normality of regression tests". *Biometrika* 52 (1965), 669. (Editors) 34 #8548

Some Bayesian methods related to χ^2. (With discussion. French summary) *Bull. Inst. Internat. Statist.* 41 (1965), 64-76. (I. J. Good) 35 #6260

(with Bloch, Daniel A.) A Bayesian study of the multinomial distribution. *Ann. Math. Statist.* 38 (1967), 1423-1435. (D. V. Lindley) 35 #6271

Linear least squares regression. *Ann. Math. Statist.* 38 (1967), 1679-1699. (E. J. Hannan) 36 #2289

Another test for the uniformity of a circular distribution. *Biometrika* 54 (1967), 675-677. (G. K. Eagleson) 36 #4701

(with Smith, W.) Diffusion out of a triangle. *J. Appl. Probability* 4 (1967), 479-488. (K. Dietz) 37 #3853

Density estimation by orthogonal series. *Ann. Math. Statist.* 40 (1969), 1496-1498. (Judah Rosenblatt) 39 #3663

Some problems in the statistics of directions. (French summary. With discussion) Proc. Thirty-sixth Session Internat. Statist. Inst. (Sydney, 1967). *Bull. Inst. Internat. Statist.* 42 (1969), 374-385. (Author's summary) 41 #2855

(with Durbin, J.) Testing for serial correlation in least squares regression. III. *Biometrika* 58 (1971), 1-19. (M. M. Siddiqui) 43 #7018

Watson, George Neville

* (with Whittaker, E. T.) A course of modern analysis. An introduction to the general theory of infinite processes and of analytic functions; with an account of the principal transcendental functions. Fourth edition. Reprinted. *Cambridge University Press, New York,* 1962. vii + 608 pp. (Editors) 31 #2375

(See also Rankin, R. A., 33 #2518)

Watson, J.

On the existence of solutions for a class of rotating disc flows and the convergence of a successive approximation scheme. *J. Inst. Math. Appl.* 1 (1965), 348-371. (L. Sanyal) 32 #8623

Watson, Kenneth M.

(with Froissart, M.; Goldberger, M. L.) Spatial separation of events in *S*-matrix theory. *Phys. Rev.* (2) 131 (1963), 2820-2826. (H. Ekstein) 31 #6543

* (with Goldberger, Marvin L.) Collision theory. *John Wiley & Sons, Inc., New York-London-Sydney,* 1964. ix + 919 pp. (G. Barton) 29 #3128

(with Goldberger, Marvin L.) Measurement of time correlations for quantum-mechanical systems. *Phys. Rev.* (2) 134 (1964), B919-B928. (A. Siegel) 29 #6809

(with Goldberger, M. L.) Lifetime and decay of unstable particles in *S*-matrix theory. *Phys. Rev.* (2) 136 (1964), B1472-B1480. (John G. Taylor) 32 #784

(with Fetter, Alexander L.) The optical model. *Advances in Theoretical Physics, Vol.* 1, *pp.* 115-194. *Academic Press, New York,* 1965. (B. A. Lippmann) 33 #1008

(with Goldberger, M. L.) Fluctuations with time of scattered-particle intensities. *Phys. Rev.* (2) 137 (1965), B1396-B1409. (H. W. Lewis) 33 #992

(with Goldberger, Marvin L.) Accuracy of measurement for counting and intensity-correlation experiments. *Phys. Rev.* (2) 140 (1965), B500-B509. (H. W. Lewis) 33 #993

Watson, Martha

On functions that are bivalent in the unit circle. *J. Analyse Math.* 17 (1966), 383-409. (M. M. Schiffer) 35 #6815

Watson, P. J. S.

(with Sundaresan, M. K.) Bethe-Salpeter equation with a near harmonic interaction. *Ann. Physics* 59 (1970), 375-407. (J. T. Cushing) 41 #9520

Watson, Richard E.

(with Freeman, Arthur J.) Hyperfine interactions in magnetic materials. Magnetism, Vol. II. Statistical Models, Magnetic Symmetry, Hyperfine Interactions and Metals. Part A, pp. 167-305. *Academic Press, New York,* 1965. (R. K. Nesbet) 33 #2349

Watson, S. R.

Towards the minimum drag on a body of given volume in slow viscous flow. *J. Inst. Math. Appl.* 7 (1971), 367-376. (P. Crooke) 44 #3580

Watt, J. M.

The asymptotic discretization error of a class of methods for solving ordinary differential equations. *Proc. Cambridge Philos. Soc.* 63 (1967), 461-472. (F. Stenger) 35 #1220

Convergence and stability of discretization methods for functional equations. *Comput. J.* 11 (1968/69), 77-82. (Author's summary) 37 #1105

Consistency, convergence and stability of general discretizations of the initial value problem. *Numer. Math.* 12 (1968), 11-22. (J. C. Butcher) 38 #5393

van der Watt, P.

A comparison of certain tests for normality. *South African Statist. J.* 3 (1969), 69-82. (G. E. Noether) 42 #7012

Wattel, E.

(with Strecker, G. E.) A coherent embedding of an arbitrary topological space in a semi-regular space. *Math. Centrum Amsterda Afd. Zuivere Wisk.* 1966, ZW-006, 11 *pp.* (Authors' summary) 39 #923

(with de Groot, J.; Strecker, G. E.) The compactness operato in general topology. *General Topology and its Relations to Modern Analysis and Algebra, II (Proc. Second Prague Topological Sympos.,* 1966*), pp.* 161-163. *Academia, Prague,* 1967. (Anne K. Steiner) 38 #657

(with Strecker, G. E.) On semi-regular and minimal Hausdorff embeddings. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math* 29 (1967), 234-237. (Anne K. Steiner) 35 #2261

(with Strecker, G. E.; Herrlich, H.; Groot, J.) Strengthenin Alexander's subbase theorem. *Duke Math. J.* 35 (1968), 671-676. (S. Negrepontis) 37 #6912

(with van Emde Boas, P.; van de Lune, J.) On the continuity of fixed points of contractions. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-008, 7 *pp.* (M. Edelstein) 39 #3475

(with Jensen, G. A.) Efficient calculation of powers in a semigroup. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-001, 18 *pp.* (R. J. Warne) 39 #5736

(with van de Lune, J.) On the numerical solution of a differential-difference equation arising in analytic number theory. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-005, 8 *pp.* 40 #8293

(with van de Lune, J.) On the frequency of natural numbers m whose prime divisors are all smaller than m^{α}. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-007, 35 *pp.* (D. Rearick) 41 #3426

* The compactness operator in set theory and topology. Mathematical Centre Tracts, 21. *Mathematisch Centrum, Amsterdam,* 1968. v + 61 *pp.* (Anne K. Steiner) 39 #7551

(with van de Lune, J.) On the range of functions of bounded variation. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1968, ZW-010, 10 *pp.* (F. Brooks) 40 #5805

(with de Groot, J.; Herrlich, H.; Strecker, G. E.) Compactnes as an operator. *Compositio Math.* 21 (1969), 349-375. (Anne K. Steiner) 41 #4490

(with de Groen, P. P. N.) A general fixed point theorem. *Math. Centrum Amsterdam Afd. Zuivere Wisk.* 1969, ZW-009, 5 *pp.* (M. Edelstein) 41 #4516

(with van de Lune, J.) On the numerical solution of a differential-difference equation arising in analytic number theory. *Math. Comp.* 23 (1969), 417-421. (W. R. Boland) 40 #1050

Wattenberg, Frank

(with Bernstein, Allen R.) Nonstandard measure theory. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif.,* 1967*), pp.* 171-185. *Holt, Rinehart and Winston, New York,* 1969. (A. C. M. van Rooij) 40 #287

Watters, J. F.

On the adjoint group of a radical ring. *J. London Math. Soc.* 43 (1968), 725-729. (R. L. Kruse) 37 #5251

Lower radicals in associative rings. *Canad. J. Math.* 21 (1969), 466-476. (H. Tominaga) 38 #5836

On internal constructions of radicals in rings. *J. London Math. Soc.* (2) 1 (1969), 500-504. (A. G. Heinicke) 40 #7319

Watterson, Geoffrey A.

(with Bartko, John J.) Inference on a genetic model of the Markov chain type. *Biometrika* 50 (1963), 251-264. (J. Gani) 29 #692

The application of diffusion theory to two population genetic models of Moran. *J. Appl. Probability* 1 (1964), 233-246. (P. A. P. Moran) 29 #5313

(with Bartko, John J.) Some problems of statistical inference in absorbing Markov chains. *Biometrika* 52 (1965), 127-138. (K. Dietz) 34 #6977

(with Chia, A. B.) Demographic effects on the rate of genetic evolution. I. Constant size populations with two genotypes. *J. Appl. Probability* 6 (1969), 231-248. (P. Holgate) 41 #1142

Watts, Alfred C.

On exponential smoothing of discrete time series. *IEEE Trans. Information Theory* IT-16 (1970), 630. (Author's summary) 42 #8644

Watts, Charles E.

A Jordan-Hölder theorem. *Pacific J. Math.* 14 (1964), 731-734. (D. E. Littlewood) 29 #2293

Alexander-Spanier cohomology and rings of continuous functions. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 1027-1028. (Ronald Brown) 34 #3571

A homology theory for small categories. *Proc. Conf. Categorical Algebra (La Jolla, Calif., 1965), pp. 331-335. Springer, New York,* 1966. (M. Barr) 34 #4336

Watts, Donald G.
* (with Jenkins, Gwilym M.) Spectral analysis and its applications. *Holden-Day, San Francisco, Calif.-Cambridge-Amsterdam,* 1968. xviii + 525 pp. (George Weiss) 37 #6000
(See also Future of Statistics, 38 #2856)

Watts, H. A.
(with Shampine, L. F.) Block implicit one-step methods. *Math. Comp.* 23 (1969), 731-740. (J. D. Lambert) 41 #9445

Watzlawek, Wolfgang
(with Gröbner, W.) Verallgemeinerte Lie-Reihen mit Operatoren höherer Ordnung. *Monatsh. Math.* 69 (1965), 136-145. (L. Bungart) 31 #3690
Über die Lösung des Cauchy'schen Problems bei linearen partiellen Differentialgleichungen beliebiger Ordnung mittels Lie-Reihen. *Monatsh. Math.* 70 (1966), 366-376. (W. Sangren) 35 #4577
(with Gröbner, W.) Linear partial differential equations of higher order. *Contributions to the Method of Lie Series, Chapter V, pp. 221-253. Bibliographisches Institut, Mannheim,* 1967. (J. W. Neuberger) 39 #7261
Zur Lösungsdarstellung bei gewissen linearen partiellen Differentialgleichungen zweiter Ordnung. *Monatsh. Math.* 73 (1969), 461-472. (S. Cinquini) 41 #5801
Über lineare partielle Differentialgleichungen zweiter Ordnung mit Fundamentalsystemen. *J. Reine Angew. Math.* 247 (1971), 69-74. (S. Delache) 43 #6561
Über Zusammenhänge zwischen Fundamentalsystemen, Riemann-Funktion und Bergman-Operatoren. *J. Reine Angew. Math.* 251 (1971), 200-211. (S. Delache) 44 #5598

Waugh, Frederick V.
(with Abel, Martin E.) On fractional powers of a matrix. *J. Amer. Statist. Assoc.* 62 (1967), 1018-1021. (E. R. Hansen) 36 #2311

Waugh, W. A. O'N.
Age-dependent branching processes under a condition of ultimate extinction. *Biometrika* 55 (1968), 291-296. (M. M. Siddiqui) 38 #5302
(with Kotish, T. C. T.; Thompson, J. W.) Use of Erlangian distributions for single-server queueing systems. *J. Appl. Probability* 6 (1969), 584-593. (R. Fischler) 40 #6657
Transformation of a birth process into a Poisson process. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 418-431. 44 #4823

Wavrik, John J.
Deformations of Banach [branched] coverings of complex manifolds. *Amer. J. Math.* 90 (1968), 926-960. (A. Newlander, Jr.) 38 #1706
Obstructions to the existence of a space of moduli. *Global Analysis (Papers in Honor of K. Kodaira), pp. 403-414. Univ. Tokyo Press, Tokyo,* 1969. (H. Kerner) 40 #8089

Wawrzhńczyk, A.
The Bochner-Schwartz theorem on arbitrary locally compact Abelian groups. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 715-716. (T. S. Liu) 37 #698
On tempered distributions and Bochner-Schwartz theorem on arbitrary locally compact Abelian groups. *Colloq. Math.* 19 (1968), 305-318. (D. E. Ramirez) 37 #3355
A duality in the theory of group representations. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 541-545. (S. Sankaran) 41 #5555
(with Strasburger, A.) Reciprocity theorems in the theory of representations of groups. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 101-105. (G. de B. Robinson) 44 #2851

Wax, Nelson
(with Ponzo, Peter J.) On certain relaxation oscillations: Asymptotic solutions. *J. Soc. Indust. Appl. Math.* 13 (1965), 740-766. (M. Urabe) 32 #4329
(with Ponzo, Peter J.) On certain relaxation oscillations: Confining regions. *Quart. Appl. Math.* 23 (1965), 215-234. (R. A. Struble) 32 #4330
On some periodic solutions of the Liénard equation. *IEEE Trans. Circuit Theory* CT-13 (1966), 419-423. (Author's summary) 39 #5885
(with Ponzo, Peter J.) Notes on the equation $\ddot{y} - \mu \sin \dot{y} + y = 0$ and some variants. *J. Math. Anal. Appl.* 31 (1970), 595-602. (J. O. C. Ezeilo) 42 #2103
(with Ponzo, Peter J.) On periodic solutions of the system $\dot{x} = y - F(x)$, $\dot{y} = -g(x)$. *J. Differential Equations* 10 (1971), 262-269. (H. O. Tẹjumọla) 44 #5558

Waylen, P. C.
(with Sciama, D. W.; Gilman, Robert C.) Generally covariant integral formulation of Einstein's field equations. *Phys. Rev.* (2) 187 (1969), 1762-1766. (H. Treder) 41 #3076

Wayment, Stanley G.
(with Easton, R. J.; Tucker, D. H.) On the existence almost everywhere of the cross partial derivatives. *Math. Z.* 102 (1967), 171-176. (A. M. Bruckner) 36 #1588
(with Easton, R. J.) A mean value theorem and Darboux's property for the derivative of an additive set function with respect to a measure on E_n. *Rev. Un. Mat. Argentina* 24 (1968/69), 97-102. (V. Ganapathy Iyer) 40 #5810
(with Easton, R. J.) A mean value theorem. *Amer. Math. Monthly* 77 (1970), 170-172. (M. de Guzmán) 41 #419
(with Tucker, D. H.) Absolute continuity and the Radon-Nikodym theorem. *J. Reine Angew. Math.* 244 (1970), 1-19. (J. Diestel) 42 #7859
(with Edwards, J. R.) A unifying representation theorem. *Math. Ann.* 187 (1970), 317-328. (S. Newberger) 42 #5074
(with Edwards, J. R.) A v-integral representation for linear operators on spaces of continuous functions with values in topological vector spaces. *Pacific J. Math.* 35 (1970), 327-330. (S. K. Berberian) 43 #465
(with Cannon, J. W.) An imbedding problem. *Proc. Amer. Math. Soc.* 25 (1970), 566-570. (L. K. Barrett) 41 #4504
(with Valentine, J. E.) On mean value theorems for a metric derivative. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 153-156. (B. Rodriguez-Salinas) 41 #8602
(with Valentine, J. E.) Wilson angles in linear normed spaces. *Pacific J. Math.* 36 (1971), 239-243. (H. A. Gindler) 43 #3775
On congruence indices for simple closed curves. *Proc. Amer. Math. Soc.* 28 (1971), 199-207. (L. M. Blumenthal) 43 #1052
(with Edwards, J. R.) A v-integral representation for linear operators on a space of continuous vector-valued functions. *Proc. Amer. Math. Soc.* 30 (1971), 260-262. (E. R. Deal) 43 #6749
(with Edwards, J. R.) A v-integral representation for the continuous linear operators on spaces of continuously differentiable vector-valued functions. *Proc. Amer. Math. Soc.* 30 (1971), 263-270. (E. R. Deal) 43 #6750
Arc length and the mean value theorem. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 429-431. (B. K. Lahiri) 44 #4165
(with Edwards, J. R.) Representations for transformations continuous in the *BV* norm. *Trans. Amer. Math. Soc.* 154 (1971), 251-265. (H. Burkill) 43 #466
(with Edwards, J. R.) Integral representations for continuous linear operators in the setting of convex topological vector spaces. *Trans. Amer. Math. Soc.* 157 (1971), 329-345. (J. J. Uhl, Jr.) 43 #7581
(with Balentine, Joseph E.) Metric transforms and the hyperbolic four-point property. *Proc. Amer. Math. Soc.* 31 (1972), 232-234. (L. M. Kelly) 44 #7438

Ważewski, Tadeusz
Systèmes de commande et équations au contingent. (Russian summary insert) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 9 (1961), 151-155. (H. A. Antosiewicz) 32 #2228
Sur quelques définitions équivalentes des quasitrajectoires des systèmes de commande. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 10 (1962), 469-474. (H. A. Antosiewicz) 32 #2229
Sur un système de commande dont les trajectoires coincident avec les quasitrajectoires du système de commande donné. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 11 (1963), 101-104. (Otto Haupt (Zbl 117, 300)) 32 #3888
On an optimal control problem. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp. 229-242. Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (R. E. Kalman) 34 #1640
On certain conditions of existence of periodic trajectories and quasi-trajectories of the control system of differential equations. (Russian and Polish summaries) *Nonlinear Vibration Problems, 5, Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp. 376-377. Panstwowe Wydawnictwo Naukowe, Warsaw,* 1964. (E. O. Roxin) 33 #2439
Sur la convergence des approximations successives pour les équations différentielles ordinaires au cas de l'espace de Banach. *Ann. Polon. Math.* 16 (1965), 231-235. (J. J. Schäffer) 30 #3285
Une méthode de construction des solutions approchées des équations différentielles ordinaires au cas de l'espace de Banach. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 133-136. (M. L. Juncosa) 33 #4434
Remarque sur un cas particulier de la méthode de Runge et Kutta. *Funkcial. Ekvac.* 9 (1966), 287-290. (F. Stenger) 35 #1221
On differential equations asymptotically induced by a sequence of discrete functions. (Loose Russian summary) *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 15 (1967), 551-555. (R. F. Matlak) 38 #1306
Sur un système des inégalités intégrales ordinaires non linéaires. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 225-229. (D. Willett) 41 #2178

Weast, Robert C.
* Handbook of mathematical tables. Supplement to Handbook of Chemistry and Physics. Second edition. Editor in charge of mathematics: Samuel M. Selby; Editor-in-chief, Emeritus: Charles D. Hodgman. *The Chemical Rubber Co., Cleveland, Ohio,* 1964. x + 680 pp. (John Todd) 30 #5461

Weaver, C.

(with Markus, L.) Collisions in the reduced 3-body problem. *Amer. J. Math.* 91 (1969), 385-394. (E. Rabe) 39 #6554

Weaver, D. L.

(with Hammer, C. L; Good, R. H., Jr.) Description of a particle with arbitrary mass and spin. *Phys. Rev.* (2) 135 (1964), B241-B248. (C. G. Bollini) 29 #5554

(See also Weinberg, Steven, 32 #5140)

(with McClure, J. A.) A note on the Cini-Touschek transformation. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 530-535. (Roland Good, Jr.) 32 #8716

Weaver, George

(with Corcoran, John) Logical consequence in modal logic: Natural deduction in S5. *Notre Dame J. Formal Logic* 10 (1969), 370-384. (R. A. Bull) 40 #2524

Weaver, Harold F.

* (with Trumpler, Robert J.) Statistical astronomy. *Dover Publications, Inc., New York,* 1962. xx + 644 *pp.* (J. M. A. Danby) 29 #5624

Weaver, J. R.

Solvable automorphism groups and an upper bound for $|A(G)|$. *Proc. Amer. Math. Soc.* 27 (1971), 229-235. (L. Dornhoff) 42 #6094

Weaver, Milo W.

On conjugate and similar correspondences. *J. Math. Anal. Appl.* 15 (1966), 165-169. (R. J. Levit) 34 #73

Weaver, William, Jr.

Dynamics of discrete parameter structures. *Developments in Theoret. and Appl. Mech. Vol. 2 (Proc. Second Southeastern Conf., Atlanta, Ga., 1964), pp. 629-651. Pergamon, Oxford,* 1965. (R. Plunkett) 31 #1822

* (with Gere, James M.) Matrix algebra for engineers. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto-London,* 1965. viii + 168 *pp.* 32 #109

Webb, G. F.

Representation of semi-groups of nonlinear nonexpansive transformations in Banach spaces. *J. Math. Mech.* 19 (1969/70), 159-170. (S. Kantorovitz) 40 #793

Product integral representation of time dependent nonlinear evolution equations in Banach spaces. *Pacific J. Math.* 32 (1970), 269-281. (J. R. Dorroh) 41 #2483

Nonlinear evolution equations and product integration in Banach spaces. *Trans. Amer. Math. Soc.* 148 (1970), 273-282. (A. Pazy) 42 #901

Nonlinear evolution equations and product stable operators on Banach spaces. *Trans. Amer. Math. Soc.* 155 (1971), 409-426. (R. Showalter) 43 #2582

}

Webb, James R.

A Hellinger integral representation for bounded linear functionals. *Pacific J. Math.* 20 (1967), 327-337. (R. A. Raimi) 34 #8169

Webb, Jeffrey Ronald Leslie

Fixed point theorems for non-linear semicontractive operators in Banach spaces. *J. London Math. Soc.* (2) 1 (1969), 683-688. (J. E. West) 40 #3392

(with Edmunds, D. E.) A Leray-Schauder theorem for a class of nonlinear operators. *Math. Ann.* 182 (1969), 207-212. (D. G. de Figueiredo) 40 #7895

Mapping and fixed-point theorems for non-linear operators in Banach spaces. *Proc. London Math. Soc.* (3) 20 (1970), 451-468. (T. Kato) 42 #917

(with Edmunds, D. E.) Nonlinear operator equations in Hilbert spaces. *J. Math. Anal. Appl.* 34 (1971), 471-478. (J. W. Neuberger) 43 #6787

Webb, Jerry C.

(with Whiteman, J. R.) Convergence of finite-difference techniques for a harmonic mixed boundary value problem. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 366-374. (F. M. Pascal) 43 #1451

Webb, Philip

A pair of primitive rules for the sentential calculus. *Z. Math. Logik Grundlagen Math.* 16 (1970), 439-446. (K. Schütte) 44 #3831

Webb, Steve R.

Non-orthogonal designs of even resolution. *Technometrics* 10 (1968), 291-299. (Author's summary) 38 #5356

Saturated sequential factorial designs. *Technometrics* 10 (1968), 535-550. (Author's summary) 38 #836

Webb, William A.

Sums of rational numbers. *Canad. J. Math.* 17 (1965), 1019-1024. (H. B. Mann) 32 #86

(with Stewart, B. M.) Sums of fractions with bounded numerators. *Canad. J. Math.* 18 (1966), 999-1003. (Werner G. H. Schaal) 33 #7297

(with Parberry, E. A.) Divisibility properties of Fibonacci polynomials. *Fibonacci Quart.* 7 (1969), *no.* 5, 457-463. (J. M. Gandhi) 40 #5536

On $4/n = 1/x + 1/y + 1/z$. *Proc. Amer. Math. Soc.* 25 (1970), 578-584. (W. H. Mills) 41 #1639

An asymptotic estimate for a class of divisor sums. *Duke Math. J.* 38 (1971), 575-582. (B. Garrison) 44 #1638

Webber, D. B.

Ideals and modules of simple Noetherian hereditary rings. *J. Algebra* 16 (1970), 239-242. (E.-A. Behrens) 42 #305

Webber, P. N.

(with Lancaster, P.) Jordan chains for lambda matrices. *Linear Algebra and Appl.* 1 (1968), 563-569. (H. Langer) 39 #228

Webber, R. F.

(with Leon, B. J.) Some results on the stability of parametric amplifier midels. *Proc. Sympos. on Generalized Networks (New York, 1966), pp. 709-719. Polytechnic Press, Brooklyn, N. Y.,* 1966. (Authors' summary) 43 #5948

Weber, C. S.

(with Stone, M. S.) Signal-design considerations for the noncoherent Gaussian channel. *IEEE Trans. Information Theory* IT-16 (1970), 501-503. (Authors' summary) 43 #1731

Weber, Charles L.

On optimal signal selection for *M*-ary alphabets with two degrees of freedom. *IEEE Trans. Information Theory* IT-11 (1965), 299-300. (From the author's introduction) 32 #3925

(with Scholtz, R. A.) Signal design for phase-incoherent communications. *IEEE Trans. Information Theory* IT-12 (1966), 456-463. (Authors' summary) 40 #3984

A contribution to the signal-design problem for incoherent-phase communication systems. With a scholium by C. W. Helstrom. *IEEE Trans. Information Theory* IT-14 (1968), 306-311. (Editors) 40 #3985

Weber, Claude

Plongements de polyèdres dans le domaine métastable. *Comment. Math. Helv.* 42 (1967), 1-27. (E. Fadell) 38 #6606; erratum, 43, p. 1695

L'élimination des points doubles dans le cas combinatoire. *Comment. Math. Helv.* 41 (1966/67), 179-182. (H. Suzuki) 34 #6785; erratum, 43, p. 1695

Quelques théorèmes bien connus sur les A.N.R. et les C.W. complexes. *Enseignement Math.* (2) 13 (1967), 211-222 (1968). 40 #6533

Deux remarques sur les plongements d'un AR dans un espace euclidien. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 851-855. (A. H. Copeland, Jr.) 39 #4850; erratum, 43, p. 1695

Taming complexes in the metastable range. *Essays on Topology and Related Topics (Mémoires dediés à Georges de Rham), pp. 167-172. Springer, New York,* 1970. (C. L. Seebeek, III) 41 #7694

Weber, Ernst

* Electromagnetic theory. Static fields and their mapping. *Dover Publications, Inc., New Ylrk,* 1965. xii + 590 *pp.* (Editors) 32 #2020

Weber, Gerhard

(with Schmutzer, E.) Zur nichtrelativistischen zweiten Näherung der Diracschen Theorie des Elektrons. (English summary) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre 2 Phys.* 55 (1960/61), 105-115 (1962). (R. Ingraham) 29 #4493

Einige Bemerkungen zum quantentheoretischen Virialsatz in relativistischer und nichtrelativistischer Einteilchentheorie mit äusserem zeitunabhängigen elektromagnetischen Feld. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 13 (1964), 245-247. (W. Güttinger) 32 #3561

Weber, H. J.

(with Huber, M. G.; Greiner, W.) Zur Klassifikation der Zustände des 5-dimensionalen harmonischen Oszillators. (English summary) *Z. Physik* 190 (1966), 25-59. (K. T. Hecht) 33 #2299

(with Biedenharn, L. C.; Gruber, B.) Generating functions and characters of irreducible representations of SU(3) and SU(2, 1). *Proc. Roy. Irish Acad. Sect. A* 67, 1-14 (1968). (R. Keown) 38 #6804

(with Gruber, B.) Recurrence relation for Kostant's formula. *Proc. Roy. Irish Acad. Sect. A* 70, 27-32 (1970). (D.-N. Verma) 44 #4145

Weber, Hans-Dietrich

(See Takács, L., 34 #2058)

Weber, Hans Rud.

Canonical theory of the nonparametric Lagrangian multiple integral problems with variable boundaries. *Bull. Amer. Math. Soc.* 75 (1969), 460-464. (M. R. Hestenes) 40 #1838

Weber, J. K., Jr.

(with Davis, Henry W.; Murray, F. J.) Families of L_p-spaces with inductive and projective topologies. *Pacific J. Math.* 34 (1970), 619-638. (W. A. J. Luxemburg) 42 #2291

(The sign } indicates an entry in the supplement.)

Weber, Jean-Daniel

Sur une condition générale de stabilité d'un corps élastique non homogène. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A66-A68. (R. J. Knops) 36 #2347

Sur des conditions suffisantes de stabilité de corps élastiques et plastoélastiques. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A971-A973. (Author's summary) 39 #2382

Weber, Joseph

On the possibility of detection and generation of gravitational waves. (French summary) *Les théories relativistes de la gratitation (Royaumont,* 1959*), pp.* 441-450. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2072

Gravitational radiation experiements. *Relativité, Groupes et Topologie (Lectures, Les Houches,* 1963 *Summer School of Theoret. Phys., Univ. Grenoble), pp.* 863-880. *Gordon and Breach, New York,* 1964. (P. Roman) 29 #5600

Weber, T. A.

(with Fradkin, D. M.; Hammer, C. L.) Coulomb scattering of Dirac particles. *Ann. Physics* 27 (1964), 338-361. (F. R. Halpern) 29 #6869

(with Fradkin, D. M.; Hammer, C. L.) A method of asymptotic expansion of Fourier-type integrals. *Ann. Physics* 27 (1964), 362-376. (F. R. Halpern) 29 #6870

(with Fradkin, D. M.; Hammer, C. L.) Scattering wavefunctions for a Dirac particle in a central potential. *J. Mathematical Phys.* 5 (1964), 1645-1651. (T. Erber) 29 #6818

(with Bisiacchi, G.; Furlan, G.; Nocentini, A.) Renormalization group and the photon propagator. (Italian summary) *Nuono Cimento* (10) 32 (1964), 1742-1754. (M. Z. v. Krzywoblocki) 31 #5497

(with Hammer, C. L.) Time-dependent perturbation theory. *J. Mathematical Phys.* 6 (1965), 1591-1606. (E. L. Hill) 31 #6545

(with Williams, S. A.) Spin-matrix polynomials and the rotation operator for arbitrary spin. *J. Mathematical Phys.* 6 (1965), 1980-1983. (C. G. Bollini) 32 #6899

(with Fonda, L.; Ghirardi, G. C.; Rimini, A.) Analytic properties of resolvents and completeness. *J. Mathematical Phys.* 7 (1966), 1643-1647. (J. T. Cushing) 33 #8169

(with Hammer, C. L.) V-particle decay in the Lee model. *J. Mathematical Phys.* 10 (1969), 2067-2077. (C.-H. Woo) 40 #6873

Weber, Volker

(with Borho, Walter) Zur Existenz total ganz abgeschlossener Ringerweiterungen. *Math. Z.* 121 (1971), 55-57. (R. E. MacRae) 44 #2737

Weber, Waldemar C.

* (with Goldberg, Samuel I.) Conformal deformations of riemannian manifolds. Queen's Papers in Pure and Applied Mathematics, No. 16. *Queen's University, Kingston, Ont.,* 1969. iv + 210 *pp.* (T. J. Willmore) 40 #1938

(with Tanno, Shûkichi) Closed conformal vector fields. *J. Differential Geometry* 3 (1969), 361-366. (T. Okubo) 41 #6111

Weber, Werner

Über Permutationen mit Wiederholung. *Collect. Math.* 20 (1969), 151-187. (H. W. Gould) 43 #4693

Webster, Harold

(Srivastava, A. B. L.) An estimation of true scores in the case of items scored on a continuous scale. *Psychometrika* 32 (1967), 327-338. (A. K. Gayen) 36 #1015

Webster, J. T.

On the use of a biased estimator in linear regression. *J. Indian Statist. Assoc.* 3 (1965), 82-90. (P. S. Dwyer) 33 #3401

(with Rao, J. N. K.) On two methods of bias reduction in the estimation of ratios. *Biometrika* 53 (1966), 571-577. (Authors' summary) 35 #2442

(with Ballas, J. A.) On dependent tests from a non-orthogonal design. *J. Amer. Statist. Assoc.* 61 (1966), 803-812. (D. A. Sprott) 34 #6950

Webster, L. D.

(with Johnson, H. H.) Complex potential analysis of screw dislocation arrays. *J. Appl. Phys.* 36 (1965), 1927-1933. (Norman Louat) 31 #6439

Webster, R. J.

The space of affine-equivalence classes of compact subsets of Euclidean space. *J. London Math. Soc.* 40 (1965), 425-432. (P. C. Hammer) 31 #4015

(with Shephard, G. C.) Metrics for sets of convex bodies. *Mathematika* 12 (1965), 73-88. (G. Freilich) 32 #2975

An embedding of a subset-space in the Hilbert cube. *J. London Math. Soc.* 42 (1967), 344-348. (C. E. Burgess) 35 #976

(with Bryant, V. W.) Generalizations of the theorems of Radon, Helly, and Carathéodory. *Monatsh. Math.* 73 (1969), 309-315. (W. J. Firey) 40 #6369

Wechler, Wolfgang

Beschreibung lokaler Symmetrien physikalischer Systeme mit Hilfe von Gruppoiden. I. *Wiss. Z. Techn. Univ. Dresden* 16 (1967), 885-889. (A. H. Klotz) 40 #3823

Wechsung, Gerd

Lineare Funktionalgleichungen von Polylogarithmen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 401-408. (L. Losonczi) 37 #6638

Über Kummers Funktionalgleichung für den Pentalogarithmus. *Jber. Deutsch. Math.-Verein.* 68 (1966), *Abt.* 3, 140-143. (J. Aczel) 33 #7586

Logarithmische Integrale. *Publ. Math. Debrecen* 14 (1967), 255-271. (S. K. Chatterjea) 36 #6655

Weck, Norbert

Klassische Lösungen sind such schwache Lösungen. *Arch. Math. (Basel)* 20 (1969), 628-637. (W. J. Sweeney) 41 #3969

Zur mathematischen Theorie stationärer Schwingungen elastischer Medien. *Bonn. Math. Schr. No.* 35 (1969), ii + 85 *pp.* (B. R. Seth) 40 #576

Außenraumaufgaben in der Theorie stationärer Schwingungen inhomogener elastischer Körper. *Math. Z.* 111 (1969), 387-398. (B. R. Seth) 41 #7900

Über die Unmöglichkeit des Vorkommens von Funktionalgleichungen gewisser Struktur für Polylogarithmen. *Aequationes Math.* 5 (1970), 54-62. (R. A. Rosenbaum) 43 #2376

Monotonieprinzipien in der Elastizitätstheorie. *Z. Angew. Math. Mech.* 50 (1970), T152-T153. (R. Plunkett) 41 #8854

Wedderburn, J. H. M.

* Lectures on matrices. *Dover Publications, Inc., New York,* 1964. vii + 200 *pp.* (Editors) 29 #5828

Weddington, D. D.

(with Bagley, R. W.) Products of k'-spaces. *Proc. Amer. Math. Soc.* 22 (1969), 392-394. (S. Swaminathan) 39 #3438

On k-spaces. *Proc. Amer. Math. Soc.* 22 (1969), 635-638. (D. R. Traylor) 40 #2001

Wedekind, H.

Primal- und Dual-**Algorithmen** zur Optimierung von Markov-Prozessen. Ein Vergleich der Algorithmen von Dantzig-Wolfe und Howard. (English and French summaries) *Unternehmensforschung* 8 (1964), 128-135. (Author's summary) 32 #5376

Wedel, Hans

(with Rao, Murali) Poisson processes as renewal processes invariant under translations. *Selected Statistical Papers,* 1, *pp.* 3-6. *Math. Centrum, Amsterdam,* 1968. (C. J. Ridler-Rowe) 40 #942

(with Rao, Murali) Poisson processes as renewal processes invariant under translations. *Ark. Mat.* 7, 539-541 (1969). (M. M. Siddiqui) 39 #4954

Wedel, Jakob

Homotopy of quasigroups. (Russian) *Mat. Vesnik* 7(22) (1970), 493-506. (H. Pflugfelder) 44 #1761

Homotopy of quasigroups. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 1236-1246. (V. D. Belousov) 44 #2870

The homotopy of quasigroups. (Russian) *Questions of the Theory of Quasigroups and Loops (Russian), pp.* 30-37. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). (R. E. Peinado) 43 #3377; erratum, 43, p. 1698

Wedemeyer, E. H.

The unsteady flow within a spinning cylinder. *J. Fluid Mech.* 20 (1964), 383-399. (G. Capriz) 30 #3654

Weder, R.

(with Zandron, O.) A class of covariant commutators for fields of integer spin J and $m \neq 0$, and for $m = 0$ without the necessity of introducing an indefinite metric. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 455-466. (G. R. Allcock) 43 #5843

Wedig, Walter

* Stabilitätsbedingungen für Schwingungssysteme mit zufälliger Parametererregung. Zur Erlangung des akademischen Grades eines Doktor-Ingenieurs von der Fakultät für Maschinenbau und Verfahrenstechnik der Universität Karlsruhe (*TH*) genehmigte Dissertation. *Universitat Karlsruhe, Karlsruhe,* 1969. i + 116 *pp.* (J. Carkovs) 42 #2124

Wee, William G.

(with Santos, Eugene S.) General formulation of sequential machines. *Information and Control* 12 (1968), 5-10. (H. D. Block) 38 #6903

(with Fu, K. S.) A formulation of fuzzy automata and its application as a model of learning systems. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1967*), pp.* 47-56. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #9666

Weed, H. R.

(with Hammond, M. H., Jr.) Determination of the optimal measurement sequence for a noisy pattern recognition system via the discrete maximum principle. (French, German and Russian summaries) *Automatica--J. IFAC* 6 (1970), 545-553. (V. F. Dem'janov) 42 #7432

Weeda, P. J.

* (with de Leve, G.; Tijms, H. C.) Generalized Markovian decision processes. Applications. Mathematical Centre Tracts, 5. *Mathematisch Centrum, Amsterdam,* 1970. iii + 108 pp. (J. F. C. Kingman) 42 #4187

Weeg, Gerard P.

The group and semigroup associated with automata. *Proc. Sympos. Math. Theory of Automata (New York, 1962), pp. 257-266. Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.,* 1963. (Author's summary) 30 #5899

The automorphism group of the direct product of strongly related automata. *J. Assoc. Comput. Mach.* 12 (1965), 187-195. (S. Ginsburg) 31 #4728 (E)

* (with Reed, Georgia B.) Introduction to numerical analysis. *Blaisdell Publishing Co. [Ginn and Co.], Waltham, Mass.-Toronto, Ont.-London,* 1966. vii + 184 *pp.* (J. F. Traub) 35 #5118

Corrigendum: "The automorphism group of the direct product of strongly related automata". *J. Assoc. Comput. Mach.* 14 (1967), 421. (Editors) 38 #5531

Weeks, David L.

(with Graybill, Franklin A.) A minimal sufficient statistic for a general class of designs. *Sankhyā Ser. A* 24 (1962), 339-354. (T. A. Willke) 30 #1594

(with Kapadia, C. H.) Variance components in two-way classification models with interaction. *Biometrika* 50 (1963), 327-334. (C. G. Khatri) 31 #846

(with Bain, Lee J.) A note on the truncated exponential distribution. *Ann. Math. Statist.* 35 (1964), 1366-1367. (J. Gani) 29 #1695

(Kapadia, C. H.) On the analysis of group divisible designs. *J. Amer. Statist. Assoc.* 59 (1964), 1217-1219. (V. S. Huzurbazar) 31 #2805

(with Bain, Lee J.) Tolerance limits for the generalized gamma distribution. *J. Amer. Statist. Assoc.* 60 (1965), 1142-1152. (H. L. Harter) 33 #801

(with Easterling, Robert G.) An accuracy criterion for Bayesian tolerance intervals. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 236-240. (Authors' summary) 42 #3914

Weeks, John D.

(with Rice, Stuart A.; Kozak, John J.) Analytic approach to the theory of phase transitions. *J. Chem. Phys.* 52 (1970), 2416-2426. (F. R. N. Nabarro) 42 #1462

Weeks, William T.

Numerical inversion of Laplace transforms using Laguerre functions. *J. Assoc. Comput. Mach.* 13 (1966), 419-429. (From the author's summary) 33 #3444

Weenink, M. P. H.

(with Hakkenberg, Anneke) The solution of the relativistic equation of motion of a charged particle in a homogeneous magnetic and a rotating electric field perpendicular to each other. *Physica* 30 (1964), 2147-2152. (C. Yeh) 31 #5448

Weesakul, B.

(with Yeo, G. F.) Delays to road traffic at an intersection. *J. Appl. Probability* 1 (1964), 297-310. (G. Newell) 29 #6562

Wefelscheid, Heinrich

Vervollständigung topologischer Fastkörper. *Math. Z.* 99 (1967), 279-298. (K. H. Hofmann) 36 #5112

Wegbreit, Ben

A generator of context-sensitive languages. *J. Comput. System Sci.* 3 (1969), 456-461. (S. Ginsburg) 44 #1530

(with Book, Ronald V.; Greibach, Sheila A.; Ibarra, Oscar H.) Tape-bounded Turing acceptors and principal AFLs. *J. Comput. System Sci.* 4 (1970), 622-625. (S. Ginsburg) 42 #2894

(with Book, Ronald V.; Greibach, Sheila A.) Time- and tape-bounded Turing acceptors and AFLs. *J. Comput. System Sci.* 4 (1970), 606-621. (S. Ginsburg) 42 #2893

Wegge, Leon L.

Identifiability criteria for a system of equations as a whole. *Austral. J. Statist.* 7 (1965), 67-77. (G. Tintner) 33 #7110

On a discrete version of the Newton-Raphson method. *SIAM J. Numer. Anal.* 3 (1966), *no.* 1, 134-142. (W. M. Kincaid) 34 #2176

A family of functional iterations and the solution of maximum likelihood estimating equations. *Econometrica* 37 (1969), 122-130. (J. W. Daniel) 39 #1112

Węglorz, Bogdan

Nerves and set-theoretical independence. *Colloq. Math.* 13 (1964), 17-19. (H. J. Keisler) 31 #1200

Compactness of algebraic systems. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 705-706. (J. Mycielski) 32 #7471

Equationally compact algebras. I. *Fund. Math.* 59 (1966), 289-298. (H. J. Keisler) 35 #1462

Completeness and compactness of lattices. *Colloq. Math.* 16 (1967), 243-248. (W. Taylor) 37 #5127

Some preservation theorems. *Colloq. Math.* 17 (1967), 269-276. (S. Comer) 36 #3643

(with Ryll-Nardzewski, C.) Compactness and homomorphisms of algebraic structures. *Colloq. Math.* 18 (1967), 233-237. (A. Yaqub) 37 #129

Equationally compact algebras. III. *Fund. Math.* 60 (1967), 89-93. (H. J. Keisler) 35 #1463

Limit generalized powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 449-451. (J. N. Crossley) 38 #5601

(with Waszkiewicz, J.) Some models of theories of reduced powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 683-685. (E. Engeler) 38 #5602

(with Wojciechowska, A.) Summability of pure extensions of relational structures. *Colloq. Math.* 19 (1968), 27-35. (J. Froemke) 37 #5136

(with Pacholski, L.) Topologically compact structures and positive formulas. *Colloq. Math.* 19 (1968), 37-42. (A. Yaqub) 37 #871

(with Fajtlowicz, S.; Holsztyński, W.; Hycielski, Jan) On powers of bases in some compact algebras. *Colloq. Math.* 19 (1968), 43-46. (A. Yaqub) 37 #127

(with Waszkiewicz, J.) On ω_0-categoricity of powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 195-199. (G. Fuhrken) 41 #3262

A model of set theory $\mathfrak{S}$ over a given Boolean algebra. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 201-202. (S. Comer) 40 #5443

Some preservation theorems. II. *Colloq. Math.* 20 (1969), 23-26. (S. Comer) 39 #2626

(with Waszkiewicz, Jan) On products of structures for generalized logics. (Polish and Russian summaries) *Studia Logica* 25 (1969), 7-15. (S. Feferman) 41 #8220

A representation theorem for post-like algebras. *Colloq. Math.* 22 (1970), 35-39. (Ph. Dwinger) 42 #7572

(with Anusiak, J.) Remarks on *C*-independence in Cartesian products of abstract algebras. *Colloq. Math.* 22 (1971), 161-165. (G. Grätzer) 43 #3195

Wegman, Edward J.

A note on estimating a unimodal density. *Ann. Math. Statist.* 40 (1969), 1661-1667. 40 #3643

Maximum likelihood estimation of a unimodal density function. *Ann. Math. Statist.* 41 (1970), 457-471. (W. Hoeffding) 40 #8202

Maximum likelihood estimation of a unimodal density. II. *Ann. Math. Statist.* 41 (1970), 2169-2174. (Author's summary) 42 #2583

Wegmann, Helmut

Beiträge zur Zahlentheorie auf freien Halbgruppen. I. *J. Reine Angew. Math.* 221 (1966), 20-43. (W. Schwarz) 32 #4097

Beiträge zur Zahlentheorie auf freien Halbgruppen. II. *J. Reine Angew. Math.* 221 (1966), 150-159. (W. Schwarz) 32 #4098

Ein Dichtebegriff für Mengen dyadisch rationaler Zahlen. *Math. Z.* 92 (1966), 51-64. (R. J. Warne) 33 #4034

Ein Dimensionsbegriff in Wahrscheinlichkeitsräumen. *Math. Z.* 92 (1966), 126-139. (J. E. Cigler) 34 #2035

Die Hausdorffsche Dimension von Memgen reeller Zahlen, die durch Zifferneigenschaften einer Cantorentwicklung charakterisiert sind. *Czechoslovak Math. J.* 18(93) (1968), 622-632. (I. J. Good) 39 #390

Über den Dimensionsbegriff in Wahrscheinlichkeitsräumen von P. Billingsley. I, II. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 9 (1968), 216-221; *ibid.* 9 (1968), 222-231. (J. R. Kinney) 37 #3641

Die Hausdorff-Dimension von kartesischen Produktmengen in metrischen Räumen. *J. Reine Angew. Math.* 234 (1969), 163-171. (M. A. Akcoglu) 40 #1584

Die Hausdorff-Dimension von Mengen reeller Zahlenfolgen. *J. Reine Angew. Math.* 235 (1969), 20-28. (J. E. Cigler) 39 #5776

(with Steinfeld, L.) Die Dimension von Teilmengen eines Wahrscheinlichkeitsraumes. *Math. Ann.* 184 (1969/70), 317-325. (F. Eicker) 41 #4700

Die Hausdorff-Dimension von kartesischen Produkten metrischer Räume. *J. Reine Angew. Math.* 246 (1971), 46-75. (N. Passell) 42 #8463

Wegmann, Rudolf

Der Wertebereich von Vektorintegralen. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 203-238. (W. A. J. Luxemburg) 41 #7064

(with Brosowski, Bruno) Charakterisierung bester Approximationen in normierten Vektorräumen. *J. Approximation Theory* 3 (1970), 369-397. (J. Blatter) 43 #3713

Wegner, Bernd

* Beiträge zur Differentialgeometrie transnormaler Mannigfaltigkeiten. Von der Fakultät für Allgemeine Ingenieurwissenschaften der Technischen Universität Berlin zur Verleihung des akademischen Grades Doktor der Naturwissenschaften genehmigte Dissertation. *Technische Universität Berlin, Berlin,* 1970. ii + 91 *pp.* (R. L. E. Schwarzenberger) 43 #2644

Krümmungseigenschaften transnormaler Mannigfaltigkeiten. (English summary) *Manuscripta Math.* 3 (1970), 375-390. (C. H. Edwards, Jr.) 43 #1058

Wegner, Franz J.

Duality in generalized Ising models and phase transitions without local order parameters. *J. Mathematical Phys.* 12 (1971), 2259-2272. (L. Finkelstein) 44 #6282

Wegner, G.

Über eine kombinatorisch-geometrische Frage von Hadwiger und Debrunner. (English summary) *Israel J. Math.* 3 (1965), 187-198. (G. Ewald) 34 #3436

Wegner, Kenneth W.

(with Savitzky, S. R.) Solutions of $\phi(n) = n$, where ϕ is Euler's ϕ-function. *Amer. Math. Monthly* 77 (1970), 287. (H. Gupta) 41 #5291

Wegner, M.

(with Cunge, J. A.) Intégration numérique des équations d'écoulement de barré de Saint-Venant par un schéma implicite de différences finies. (English summary) *Houille Blanche* 19 (1964), 33-39. (E. Isaacson) 30 #2693

Wegner, Peter

(with Kendall, M. G.) An introduction to statistical programming. (With discussion) *Rev. Inst. Internat. Statist.* 31 (1963), 307-360. (Editors) 32 #616

(See also Introduction to system programming, 30 #1634)

The asymptotic properties of a class of dynamic programming formulas. *J. Math. Anal. Appl.* 12 (1965), 570-575. (From the author's introduction) 32 #9111

* Programming languages, information structures, and machine organization. *McGraw-Hill Book Co., New York-Toronto, Ont.-London,* 1968. xx + 401 *pp.* (D. Vaida) 43 #4307

Węgrzyn, Stefan

(with Vidal, Pierre) Sur la stabilité absolue des systèmes non linéaires continus et échantillonnés. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A1297-A1299. (Authors' summary) 37 #6127

(with Gille, Jean-Charles; Vidal, Pierre; Palusiński, Olgierd) Stabilité illimitée des systèmes échantillonnés non linéaires dans les espaces métriques. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A418-A421. (Authors' summary) 40 #8477

(with Gille, Jean-Charles; Vidal, Pierre; Palusiński, Olgierd) Stabilité limitée des systèmes échantillonnés non linéaires dans les espaces métriques. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A490-A492. (Authors' summary) 40 #8478

Węgrzynowska, A.

(with Jakubowicz, A.) Über eine invariante Form der Bedingung für die Rekurrenz der kovarianten Ableitung eines beliebigen Tensors. *Publ. Math. Debrecen* 14 (1967), 105-109. (Y.-C. Wong) 36 #4471

Wehausen, John V.

Initial-value problem for the motion in an undulating sea of a body with fixed equilibrium position. *J. Engrg. Math.* 1 (1967), 1-18. (I. Tadjbakhsh) 36 #1144

Wehrfritz, Bertram A. F.

Conjugacy theorems in locally finite groups. II. *Arch. Math. (Basel)* 18 (1967), 470-473. (S. Moran) 39 #4260

A note on periodic locally soluble groups. *Arch. Math. (Basel)* 18 (1967), 577-579. (John R. Durbin) 37 #294

A note on d-groups. *Canad. J. Math.* 19 (1967), 410-412. (B. H. Neumann) 34 #7672

Conjugacy theorems in locally finite groups. *J. London Math. Soc.* 42 (1967), 679-686. (S. Moran) 36 #2680

Frattini subgroups in finitely generated linear groups. *J. London Math. Soc.* 43 (1968), 619-622. (B. Chang) 38 #248

Locally nilpotent linear groups. *J. London Math. Soc.* 43 (1968), 667-674. (T. A. Springer) 38 #4570

Sylow theorems for periodic linear groups. *Proc. London Math. Soc.* (3) 18 (1968), 125-140. (M. F. Newman) 36 #3893

Soluble periodic linear groups. *Proc. London Math. Soc.* (3) 18 (1968), 141-157. (M. F. Newman) 36 #3894

A residual property of free metabelian groups. *Arch. Math. (Basel)* 20 (1969), 248-250. (D. E. Cohen) 39 #5700

Sylow subgroups of locally finite groups with min-p. *J. London Math. Soc.* (2) 1 (1969), 421-427. (D. Woodhouse) 40 #1480

Transfer theorems for periodic linear groups. *Proc. London Math. Soc.* (3) 19 (1969), 143-163. (M. F. Newman) 38 #5943

Groups of automorphisms of soluble groups. *Proc. London Math. Soc.* (3) 20 (1970), 101-122. (M. F. Newman) 40 #4351

Supersoluble and locally supersoluble linear groups. *J. Algebra* 17 (1971), 41-58. (S. E. Stonehewer) 43 #2115

Remarks on centrality and cyclicity in linear groups. *J. Algebra* 18 (1971), 229-236. (S. E. Stonehewer) 44 #2845

On locally finite groups with min-p. *J. London Math. Soc.* (2) 3 (1971), 121-128. (D. Woodhouse) 43 #4920

Wehrl, A.

(with Thirring, W.) On the mathematical structure of the B.C.S.-model. *Comm. Math. Phys.* 4 (1967), 303-314. (D. A. Uhlenbrock) 35 #5196

Wehrli, Christoph

Dynamisches Verhalten einer einfach besetzten rotierenden Welle mit Kardangelenken. (English summary) *Z. Angew. Math. Phys.* 15 (1964), 154-166. (Author's summary) 29 #1778

(with Schaufelberger, Walter) Stabilität modelladaptiver Systeme nach der direkten Methode. (English summary) *Z. Angew. Math. Phys.* 21 (1970), 399-411. (E. O. Roxin) 42 #2833

Wehrli, Martin

Summationsverfahren und quasianalytische Funktionen. *Rend. Circ. Mat. Palermo* (2) 17 (1968), 129-159. (V. Ganapathy Iyer) 41 #8613

Wei, Chang. See Chang, Wei.

Wei, Diana Yun-dee

On the concept of torsion and divisibility for general rings. *Illinois J. Math.* 13 (1969), 414-431. (C. J. Penning) 39 #2807

Wei, Liang Chow. See Chow, Wei-liang.

Wei, So-fei

Unitary groups over compact valuation rings of characteristic 2. *Math. Z.* 105 (1968), 90-109. (W. Klingenberg) 37 #5305

Weibull, Christer

Maximum likelihood estimation from truncated, censored and grouped samples. *Skand. Aktuarietidskr.* 1963, 70-77 (1964). (J. W. Pratt) 32 #1810

Weichsel, Paul M.

A decomposition theory for finite groups with applications to p-groups. *Trans. Amer. Math. Soc.* 102 (1962), 218-226. (J. E. Adney) 29 #5910

* (with Paley, Hiram) A first course in abstract algebra. *Holt, Rinehart and Winston, Inc., New York-Toronto, Ont.-London,* 1966. xiii + 334 *pp.* (J. E. Whitesitt) 34 #4077

On metabelian p-groups. *J. Austral. Math. Soc.* 7 (1967), 55-63. (M. F. Newman) 34 #7645

Regular p-groups and varieties. *Math. Z.* 95 (1967), 223-231. (M. F. Newman) 34 #4364

On p-abelian groups. *Proc. Amer. Math. Soc.* 18 (1967), 736-737. (D. L. Barnett) 35 #4307

Critical and basic p-groups. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 367-371. *Gordon and Breach, New York,* 1967. (N. Ito) 36 #276

Basic p-groups. *J. Algebra* 11 (1969), 331-337. (N. Ito) 38 #5928

Weichselberger, K.

Über eine Theorie der gleitenden Durchschnitte und verschiedene Anwendungen dieser Theorie. (English summary) *Metrika* 8 (1964), 185-230. 30 #3767

Weicksel, Hermann

* Invarianzgruppen einer Bewegungsgleichung mit Kommutatorring. Inaugural - Dissertation zur Erlangung der Doktorwürde einer Hohen Naturwissenschaftlich-Mathematischen Fakultät der Ruprecht-Karl-Universität zu Heidelberg. *Dissertation, Heidelberg,* 1964. iv + 50 *pp.* (P. W. Higgs) 31 #1048

Weidemann, E. G.

Density matrix method for nuclear binding energies. *Nuclear Phys.* 65 (1965), 559-576. (G. H. Derrick) 32 #7071

Weidemann, Henry L.

Entropy analysis of feedback control systems. *Advances in Control Systems, Vol.* 7, *pp.* 225-255. *Academic Press, New York,* 1969. (P. N. Rathie) 42 #4304

(with Stear, Edwin B.) Entropy analysis of parameter estimation. *Information and Control* 14 (1969), 493-506. (S. Kotz) 39 #8003

(with Stear, Edwin B.) Entropy analysis of estimating systems. *IEEE Trans. Information Theory* IT-16 (1970), 264-270. (Authors' summary) 42 #7412

Wiedenfeld, Gérard

(Weidenfeld, Michèle) Idéaux d'une catégorie préadditive, application aux catégories semi-parfaites. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1569-A1571. (H.-B. Brinkmann) 42 #3150

Weidenfeld, Michèle

(with Weidenfeld, Gérard) Idéaux d'une catégorie préadditive, application aux catégories semi-parfaites. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1569-A1571. (H.-B. Brinkmann) 42 #3150

Weidenhammer, Fritz

Stabilitätsbedingungen für Schwinger mit zufälligen Parametererregungen. *Ing.-Arch.* 33 (1963/64), 404-415. (H. J. Weinitschke) 31 #5396

Weidenmüller, Hans A.

Studies of many-channel scattering. *Ann. Physics* 28 (1964), 60-115. (K. J. Le Couteur) 30 #856

Studies of many-channel scattering. II. Connection between total and partial widths. *Ann. Physics* 29 (1964), 378-382. (K. J. Le Couteur) 31 #1918

Resonances near thresholds and SU3 symmetry. *Z. Physik* 180 (1964), 425-429. (R. J. Eden) 33 #1079

(with Mahaux, C.) Studies of many-channel scattering. III. Comparison with *R*-matrix theory. *Ann. Physics* 32 (1965), 259-276. (K. J. Le Couteur) 31 #1919

Weidig, Ingo

Beziehungen zwischen den Partitionen einer Gruppe und den Partitionen ihrer Untergruppen. *Arch. Math. (Basel)* 17 (1966), 103-111. (H. Heineken) 33 #2719

Gruppen mit abgeschwächter Normalteilertransitivität. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 185-215. (G. E. Wall) 34 #2704

Ein elementarer Beweis zur Unabhängigkeit der Axiome eines Vektorraumes. *Math.-Phys. Semesterber.* 14 (1967), 189-193. (R. F. Rinehart) 37 #2768

Weidlich, John E., Jr.

On van der Corput differential systems. I. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 532-540. (S. C. van Veen) 36 #2905a

On van der Corput differential systems. II. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 541-553. (S. C. van Veen) 36 #2905b

On van der Corput differential systems. III. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 554-570. (S. C. van Veen) 36 #2905c

On van der Corput differential systems. IV. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 571-582. (S. C. van Veen) 36 #2905d

On van der Corput differential systems. V. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 583-595. (S. C. van Veen) 36 #2905e

Weidlich, Wolfgang

(with Mitra, A. K.) Some remarks on the position operator in irreducible representations of the Lorentz-group. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 385-398. (J. S. Lomont) 30 #883

Die feldtheoretische Formulierung der nichtrelativistischen Mehrkanalstreutheorie. (English summary) *Z. Naturforsch.* 18a (1963), 1266-1275. (T. Erber) 29 #6865

Weidman, Donald R.

The character ring of a finite group. *Illinois J. Math.* 9 (1965), 462-467. (Graham Higman) 31 #1298

Weidmann, Joachim

Ein Satz über nukleare Operatoren im Hilbertraum. *Math. Ann.* 158 (1965), 69-78. (L. de Branges) 30 #2349

On the continuous spectrum of Schrödinger operators. *Comm. Pure Appl. Math.* 19 (1966), 107-110. (T. Uno) 33 #413

Integraloperatoren der Spurklasse. *Math. Ann.* 163 (1966), 340-345. (F. J. Murray) 33 #7895; erratum, 34, p. 1785

The virial theorem and its application to the spectral theory of Schrödinger operators. *Bull. Amer. Math. Soc.* 73 (1967), 452-456. (H. Baumgärtel) 34 #8007

Zur Spektraltheorie von Sturm-Liouville-Operatoren. *Math. Z.* 98 (1967), 268-302. (T. Kato) 35 #4769

Strong Carleman operators are of Hilbert-Schmidt type. *Bull. Amer. Math. Soc.* 74 (1968), 735-737. (Morris Schreiber) 37 #3405

(with Gustafson K.) On the essential spectrum. *J. Math. Anal. Appl.* 25 (1969), 121-127. (Morris Schreiber) 39 #3339

Carlemanoperatoren. (English summary) *Manuscripta Math.* 2 (1970), 1-38. (Morris Schreiber) 44 #846

Oszillationsmethoden für Systeme gewöhnlicher Differentialgleichungen. *Math. Z.* 119 (1971), 349-373. (P. Hartman) 44 #2975

Weidner, Hans-Günther

(with Gerstner, Otto; Kaup, Ludger) Whitehead-Moduln abzählbaren Ranges über Hauptidealringen. *Arch. Math. (Basel)* 20 (1969), 503-514. (B. Stenström) 40 #5600

Weidner, P.

Normed linear spaces and optimal design of discrete systems. *J. Engrg. Math.* 4 (1970), 113-117. (P. C. Parks) 42 #7320

Weier, Josef

Note on a topological integral formula. *Rev. Acad. Ci. Madrid* 54 (1960), 489-491. (K. S. Acharyulu (Zbl 108, 357)) 32 #4696

Zur Lorentzgeometrie der Wellenfelder. (Spanish summary) *Rev. Acad. Ci. Madrid* 57 (1963), 15-76. (J. D. Zund) 30 #2827

Section efficace différentielle et opérateurs de création et d'annihilation. *C. R. Acad. Sci. Paris* 259 (1964), 1949-1950. 30 #3704

Lorentzmetrik in der Algebra der komplexen 4-Matrizen. *Math. Scand.* 14 (1964), 120-128. (F. D. Veldkamp) 30 #119

Deuxième quantification des équations hydrodynamiques. *C. R. Acad. Sci. Paris* 260 (1965), 1101-1102. (S. Deser) 30 #3705

Zur expliziten Berechnung der Spinmatrizen. *J. Reine Angew. Math.* 220 (1965), 94-102. (J. M. Cook) 32 #3790

Hyperbolische Faltung von Lösungen der allgemeinen Feldgleichung. *Acta Phys. Austriaca* 24 (1966), 193-209. (W. Güttinger) 34 #7992

Bermerkungen zum Inneren Differentialkalkül. *Math. Nachr.* 35 (1967), 269-288. (J. D. Zund) 37 #4739

Uzber einen Differentialoperator in der Algebra der komplexen 4-Matrizen. *Proc. Japan Acad.* 44 (1968), 681-685. (H. Osborn) 38 #2686

Zur Einbettung des reelen Lorentzraumes in die Algebra der komplexen 4-Matrizen. (Spanish summary) *Rev. Acad. Ci. Madrid* 62 (1968), 701-723. (H. Rund) 39 #2081

Zur Fourierentwicklung plusgequantelter Feldoperatoren. *Collect. Math.* 20 (1969), 207-229. (D. Babbitt) 43 #4382

Über verallgemeinerte Erzeugungs- und Vernichtungsoperatoren. (Spanish summary) *Rev. Acad. Ci. Madrid* 64 (1970), 401-412. (From the author's summary) 44 #3631

Weierstrass, Karl Theodor Wilhelm

* Formeln und Lehrsätze zum Gebrauch der elliptischen Funktionen. Nach Vorlesungen und Aufzeichnungen des Herrn K. Weierstrass bearbeitet und herausgegeben von H. A. Schwarz. Thesaurus Mathematicae, No. 4. *Physica-Verlag, Würzburg,* 1962. 96 *pp.* (Editors) 34 #2952

(See also Behnke, Heinrich, 32 #7376; Biermann, Kurt-R., 39 #1270, 33 #1210 and 38 #4269; Festschrift zur Gedächtnisfeier für Karl Weierstrass 1815-1965, 33 #3858 and Polubarinova-Kočina, P. Ja., 33 #2510)

* Mathematische Werke. I. Abhandlungen 1. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. viii + 356 *pp.* (Editors) 36 #1279

* Mathematische Werke. II. Abhandlungen 2. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. vi + 362 *pp.* (Editors) 36 #1280

* Mathematische Werke. III. Abhandlungen 3. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. viii + 362 *pp. (1 plate)* (Editors) 36 #1281

* Mathematische Werke. IV. Vorlesungen über die Theorie der Abelschen Transcendenten. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. xiv + 632 *pp.* (Editors) 36 #1282

* Mathematische Werke. V. Vorlesungen über die Theorie der elliptischen Funktionen. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. viii + 327 *pp.* (Editors) 36 #1283

* Mathematische Werke. VI. Vorlesungen über Anwendung der elliptischen Funktionen. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corpl, New York,* 1967. ix + 355 *pp. (1 plate)* (Editors) 36 #1284

* Mathematische Werke. VII. Vorlesungen über Variationsrechnung. *Georg Olms Verlagsbuchhandlung, Hildesheim; Johnson Reprint Corp., New York,* 1967. vii + 324 *pp.* (Editors) 36 #1285

Weigand, William A.

(with D'Souza, A. F.) Optimal control of linear distributed parameter systems with constrained inputs. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 239-252. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2404

Weigel, Herbert

Randwertaufgaben für parabolische Differentialgleichungen bei unstetigen Randwerten. *Math. Z.* 111 (1969), 98-120. (K. Hawlitschek) 41 #651

Weigel, M.

Regge-Pole bei geschwindigkeitsabhängigen Potentialen. (English summary) *Z. Physik* 185 (1965), 186-198. (T. Regge) 31 #5492

Regge-Pole bei geschwindigkeitsabhängigen Potentialen unter Einschluss eines Yukawapotentials. (English summary) *Z. Physik* 185 (1965), 199-216. (T. Regge) 31 #5493

Weiguny, A.

Die Corioliskopplung im quantenmechanischen *N*-Körperproblem. (English summary) *Z. Physik* 186 (1965), 227-239. (Author's summary) 32 #7091

Weijland, A.

(with van Leeuwen, J. M. J.) Logarithmic terms in the density expansion of transport coefficients. *Phys. Lett.* 19 (1965), 562-564. (J. R. Dorfman) 32 #8965

Weil, André

Sur la théorie des formes quadratiques. *Colloq. Théorie des Groupes Algébriques (Bruxelles, 1962), pp.* 9-22. *Librairie Universitaire, Louvain; Gauthier-Villars, Paris,* 1962. (O. F. G. Schilling) 32 #7511

On the arithmetical theory of the classical groups. *Arithmetical Algebraic Geometry (Proc. Conf. Purdue Univ., 1963), pp. 1-3. Harper & Row, New York,* 1965. (Editors) 33 #1311

Sur certains groupes d'opérateurs unitaires. *Acta Math.* 111 (1964), 143-211. (G. W. Mackey) 29 #2324

Remarks on the cohomology of groups. *Ann. of Math.* (2) 80 (1964), 149-157. (S. Murakami) 30 #199

Sur la formule de Siegel dans la théorie des groupes classiques. *Acta Math.* 113 (1965), 1-87. (A. Kirillov (RŽMat 1967 #12 A343)) 36 #6421

* Basic number theory. Die Grundlehren der mathematischen Wissenschaften, Band 144. *Springer-Verlag New York, Inc., New York,* 1967. xviii + 294 *pp.* (G. Whaples) 38 #3244

Über die Bestimmung Dirichletscher Reihen durch Funktionalgleichungen. *Math. Ann.* 168 (1967), 149-156. (A. P. Ogg) 34 #7473

Sur une formule classique. *J. Math. Soc. Japan* 20 (1968), 400-402. (A. P. Ogg) 37 #155

On the analogue of the modular group in characteristic *p*. *Functional Analysis and Related Fields (Proc. Conf. for M. Stone, Univ. Chicago, Chicago, Ill,* 1968*), pp.* 211-223. *Springer, New York,* 1970. (A. P. Ogg) 42 #5913

Zeta-functions and Mellin transforms. *Algebraic Geometry (Internat. Colloq., Tata Inst. Fund. Res., Bombay,* 1968*), pp.* 409-426. *Oxford Univ. Press, London,* 1969. (R. P. Langlands) 41 #6857

il, Clifford E.

On properties of derivatives. *Trans. Amer. Math. Soc.* 114 (1965), 363-376. (S. Marcus) 31 #283

On approximate and Peano derivatives. *Proc. Amer. Math. Soc.* 20 (1969), 487-490. (A. M. Bruckner) 38 #2265

il, Daniel

(with Rosenberg, H.; Roussarie, R.) A classification of closed orientable 3-manifolds of rank two. *Ann. of Math.* (2) 91 (1970), 449-464. (R. Sacksteder) 42 #5280

(with Roussarie, Robert) Extension du "closing lemma" aux actions de R^2 sur les variétés de dim = 3. *J. Differential Equations* 8 (1970), 202-228. (F. W. Wilson, Jr.) 41 #9289

il, Juergen W.

(with Schett, A.) On the solution of some important second order differential equations in physics using Lie series. *Acta Phys. Austriaca* 24 (1966), 368-372. (Authors' introduction) 35 #1857

(with Schett, A.) Lie series solution of the equations resulting from a separation of the Helmholtz equation in special coordinate systems. *Acta Phys. Austriaca* 25 (1967), 81-92. (S. P. Diliberto) 35 #3205

(with Schett, Alois) On the solution of the general inhomogeneous linear differential equation of second order using Lie series representation. (German summary) *Monatsh. Math.* 71 (1967), 156-164. (W. Sangren) 35 #1858

(See also MacLane, Saunders and Birkhoff, Garrett, 42 #1619 and 43 #3056)

il, Michel

Retournement du temps dans les processus Markoviens. *Séminaire de Probabilités (Univ. Strasbourg, Strasbourg,* 1966/67*), Vol. I, pp.* 166-176. *Springer, Berlin,* 1967. (D. W. Stroock) 37 #5940

Résolvantes en dualité. *Séminaire de Probabilités (Univ. Strasbourg, Strasbourg,* 1966/67*), Vol. I, pp.* 177-189. *Springer, Berlin,* 1967. (D. W. Stroock) 37 #5941

(with Cartier, P.; Meyer, P. A.) Le retournement du temps: Compléments à l'exposé de M. Weil. *Seminaire de Probabilités (Univ. Strasbourg,* 1967*), Vol. II, pp.* 22-33. *Springer, Berlin,* 1968. (J. G. Mauldon) 38 #6663

Un théorème d'existence de limites projectives. Application aux processus de Markov. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A653-A655. (Author's summary) 38 #1749

Conditionnement par rapport au passé strict. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1032-A1035. (G. E. Denzel) 39 #7670

Propriétés de continuité fine des fonctions coexcessives. (English summary) *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 75-86. (J. L. Doob) 41 #1122

Conditionnement par rapport au passé strict. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1523-A1525. (G. E. Denzel) 42 #3862

Quasi-processus. *Séminaire de Probabilités, IV (Univ. Strasbourg,* 1968/69*), pp.* 216-239. *Lecture Notes in Mathematics, Vol.* 124. *Springer, Berlin,* 1970. (D. Revuz) 42 #1212

(with Walsh, John B.) Temps terminaux, fonctionnelles additives et système de Lévy de processus fortement markoviens. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A888-A891 (N. H. Bingham) 43 #4125

il, Roman L., Jr.

Game theory and eigensystems. *SIAM Rev.* 10 (1968), 360-367. (W. F. Tyndall) 38 #1919

(with Thompson, Gerald L.) Further relations between game theory and eigensystems. *SIAM Rev.* 11 (1969), 597-602. (A. J. Lohwater) 43 #7219

Solutions to the decomposable von Neumann model. *Econometrica* 38 (1970), 276-280. (M. J. Beckmann) 43 #5891

(with Thompson, Gerald L.) Reducing the rank of $(A - \lambda B)$. *Proc. Amer. Math. Soc.* 26 (1970), 548-554. (M. Lotkin) 42 #1324

Weil, Wolfgang

(with Schneider, Rolf) Über die Bestimmung eines konvexen Körpers durch die Inhalte seiner Projektionen. *Math. Z.* 116 (1970), 338-348. (H. Hadwiger) 44 #922

Weiland, P. H.

(with Kalbfleisch, J. G.) Some new results for the covering problem. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 37-45. *Academic Press, New York,* 1969. (John Todd and O. Taussky-Todd) 41 #1547b

Weiler, H.

(with Williams, Jean M.) Further charts for the means of truncated normal bivariate distributions. *Austral. J. Statist.* 6 (1964), 117-129. (Z. W. Birnbaum) 32 #4765

The use of incomplete beta functions for prior distributions in binomial sampling. *Technometrics* 7 (1965), 335-347. 32 #8477

A coefficient measuring the goodness of fit. *Technometrics* 8 (1966), 327-334. (H. E. Reinhardt) 34 #8559

Weiling, F.

Beiträge zur Geschichte der Statistik und ihrer Anwendung in der Biologie während des vergangenen Jahrhunderts. *An. Univ. Bucuresti Mat.-Mec.* 18 (1969), *no.* 1, 137-151. (P. Bockstaele) 43 #6044

Weill, Georges G.

On Bergman's kernel function for some uniformly elliptic partial differential equations. *Proc. Amer. Math. Soc.* 16 (1965), 1299-1304. (R. C. MacCamy) 32 #6036

(with Sario, Leo) Normal operators and uniformly elliptic self-adjoint partial differential equations. *Trans. Amer. Math. Soc.* 120 (1965), 225-235. (C. B. Morrey, Jr.) 33 #402

Some questions in the theory of H^p spaces. *Trans. New York Acad. Sci.* (2) 28 (1965/66), 15-21. (D. Sarason) 43 #7641

Harmonic forms on Riemannian spaces with positive Ricci curvature. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1299-1307. (W. H. Ow) 42 #6757

Weill, L. J.

Stability of bases in complete barrelled spaces. *Proc. Amer. Math. Soc.* 18 (1967), 1045-1050. (M. M. Day) 36 #642

Unconditional and shrinking bases in locally convex spaces. *Pacific J. Math.* 29 (1969), 467-483. (W. H. Ruckle) 39 #7389

Weinacht, Richard J.

Fundamental solutions for a class of equations with several singular coefficients. *J. Austral. Math. Soc.* 8 (1968), 574-583. (A. M. White) 37 #6599

A mean value theorem in generalized axially symmetric potential theory. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 610-613. (A. M. White) 33 #1477

(with Diaz, J. B.) On nonlinear differential equations in Hilbert spaces. *Applicable Anal.* 1 (1971), *no.* 1, 31-41. (J. E. Lagnese) 43 #7746

(with Dunninger, D. R.) Separation and comparison theorems for classes of singular elliptic inequalities and degenerate elliptic inequalities. *Applicable Anal.* 1 (1971), *no.* 1, 43-55. (C. A. Swanson) 44 #7107

Weinbaum, C. M.

Visualizing the word problem, with an application to sixth groups. *Pacific J. Math.* 16 (1966), 557-578. (M. Greendlinger) 35 #241

Partitioning a primitive word into a generating set. *Math. Ann.* 181 (1969), 157-162. (D. E. Cohen) 39 #6964

The word and conjugacy problems for the knot group of any tame, prime, alternating knot. *Proc. Amer. Math. Soc.* 30 (1971), 22-26. (D. E. Cohen) 43 #4895

Weinbaum, Sheldon

(with Greenspan, H. P.) On non-linear spin-up of a rotating fluid. *J. Math. and Phys.* 44 (1965), 66-85. (K. Stewartson) 31 #982

Weinberg, Elliot Carl

Free lattice-ordered abelian groups. II. *Math. Ann.* 159 (1965), 217-222. (P. F. Conrad) 31 #5895

o-projective ordered abelian groups. *J. Reine Angew. Math.* 224 (1966), 219-220. (P. Jaffard) 34 #1419

On the scarcity of lattice-ordered matrix rings. *Pacific J. Math.* 19 (1966), 561-571. (John Ellis) 34 #2635

Embedding in a divisible lattice-ordered group. *J. London Math. Soc.* 42 (1967), 504-506. (P. F. Conrad) 36 #91

Weinberg, Franz

* Grundlagen der Wahrscheinlichkeitsrechnung und Statistik sowie Anwendungen im Operations Research. *Springer-Verlag, Berlin-New York,* 1968. xii + 339 *pp.* (F. Ferschl (Zbl 165, 538)) 42 #4184

Weinberg, Laurence

(with Harris, W. A., Jr.; Sibuya, Y.) A reduction algorithm for linear differential systems. *Funkcial. Ekvac.* 11 (1968), 59-67. (H. E. Gollwitzer) 39 #519

(with Harris, W. A., Jr.; Sibuya, Y.) Holomorphic solutions of linear differential systems at singular points. *Arch. Rational Mech. Anal.* 35 (1969), 245-248. (D. Hinton) 40 #432

Weinberg, Louis

A survey of linear graphs: Fundamentals and applications to network theory. *Matrix Tensor Quart.* 14 (1963/64), 103-115. (I. Cederbaum) 31 #6533

(See also Progress in circuit theory—1960-1963, 32 #2254)

Plane representations and codes for planar graphs. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 733-744. *Univ. Illinois, Urbana, Ill.*, 1965. (Author's summary) 39 #5410

Algorithms for determining automorphism groups for planar graphs. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 913-929. *Univ. Illinois, Urbana, Ill.*, 1965. (Author's summary) 39 #6682

A simple and efficient algorithm for determining isomorphism of planar triply connected graphs. *IEEE Trans. Circuit Theory* CT-13 (1966), 142-148. (From the author's summary) 39 #8017

On the maximum order of the automorphism group of a planar triply connected graph. *SIAM J. Appl. Math.* 14 (1966), 729-738. (W. T. Tutte) 34 #2495

Two new characterizations of planar graphs. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 654-670. *Univ. of Illinois, Urbana, Ill.*, 1967. (T. A. Brown) 41 #8289

(with Bruno, John) Principal partition and principal minors of a matroid, with applications. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 49-65. (D. J. A. Welsh) 44 #2636

(with Bruno, John) A constructive graph-theoretic solution of the Shannon switching game. *IEEE Trans. Circuit Theory* CT-17 (1970), 74-81. (T. L. Saaty) 42 #7413

(with Bruno, John; Steiglitz, Kenneth) A new planarity test based on 3-connectivity. *IEEE Trans. Circuit Theory* CT-17 (1970), 197-206. (Authors' summary) 41 #6719

Weinberg, M. M. See Vaĭnberg, M. M.

Weinberg, Steven

Quasiparticles and the Born series. *Phys. Rev.* (2) 131 (1963), 440-460. (R. T. Prosser) 32 #6900

The hose instability dispersion relation. *J. Mathematical Phys.* 5 (1964), 1371-1386. (A. A. Blank) 33 #6945

Derivation of gauge invariance and the equivalence principle from Lorentz invariance of the *S*-matrix. *Phys. Lett.* 9 (1964), 357-359. (A. O. Barut) 32 #839

Systematic solution of multiparticle scattering problems. *Phys. Rev.* (2) 133 (1964), B232-B256. (Author's summary) 29 #3163

Feynman rules for any spin. *Phys. Rev.* (2) 133 (1964), B1318-B1332. (I. M. Barbour) 29 #3164

(with Scadron, M.) Potential theory calculations by the quasiparticle method. *Phys. Rev.* (2) 133 (1964), B1589-B1596. (W. M. Frank) 29 #1895

Feynman rules for any spin. II. Massless particles. *Phys. Rev.* (2) 134 (1964), B882-B896. (C. G. Bollini) 31 #6573

(with Scadron, M.; Wright, J.) Functional analysis and scattering theory. *Phys. Rev.* (2) 135 (1964), B202-B207. (S. T. Kuroda) 30 #2844

Photons and gravitons in *S*-matrix theory: Derivation of charge conservation and equality of gravitational and inertia mass. *Phys. Rev.* (2) 135 (1964), B1049-B1056. (F. Rohrlich) 30 #1766

Quasiparticles and perturbation theory. Notes by Frederic I. Davis. *Lectures on Particles and Field Theory (Brandeis Summer Institute in Theoretical Physics*, 1964, *Vol.* 2*), pp.* 289-403. *Prentice-Hall, Englewood Cliffs, N. J.*, 1965. (G. Barton) 32 #3620

The quantum theory of massless particles. Notes by David Weaver. *Lectures on Particles and Field Theory (Brandeis Summer Institute in Theoretical Physics*, 1964, *Vol.* 2*), pp.* 405-485. *Prentice-Hall, Englewood Cliffs, N. J.*, 1965. (G. Barton) 32 #5140

Evidence that the deuteron is not an elementary particle. *Phys. Rev.* (2) 137 (1965), B672-B678. (S. Gasiorowicz) 32 #5205

Photons and gravitons in perturbation theory: Derivation of Maxwell's and Einstein's equations. *Phys. Rev.* (2) 138 (1965), B988-B1002. (M. Sachs) 32 #3562

Comments on relativistic supermultiplet theories. *Phys. Rev.* (2) 139 (1965), B597-B601. (L. O'Raifeartaigh) 32 #7061

Infrared photons and gravitons. *Phys. Rev.* (2) 140 (1965), B516-B524. (D. R. Yennie) 32 #6901

Weinberger, Hans G.

On bounding harmonic functions by linear interpolation. *Bull. Amer. Math. Soc.* 70 (1964), 525-529. (John W. Green) 29 #257

* A first course in partial differential equations with complex variables and transform methods. *Blaisdell Publishing Co.* [*Ginn and Co.*], ix + 446 *pp.* (N. D. Kazarinoff) 31 #4969

(with Payne, L. E.) Bounds for solutions of second order elliptic equations in terms of arbitrary vector fields. *Arch. Rational Mech. Anal.* 20 (1965), 95-106. (E. Magenes) 33 # 401

(with Protter, M. H.) On the capacity of composite conductors. *J. Math. and Phys.* 44 (1965), 375-383. (W. Schneider) 33 #2823

A posteriori error bounds in iterative matrix inversion. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland*, 1965*), pp.* 153-163. *Academic Press, New York*, 1966. (B. N. Parlett) 34 #8632

(with Serrin, James) Isolated singularities of solutions of linear elliptic equations. *Amer. J. Math.* 88 (1966), 258-272. (C. B. Morrey, Jr.) 34 #1697

(with Protter, M. H.) On the spectrum of general second order operators. *Bull. Amer. Math. Soc.* 72 (1966), 251-255. (W. W. Hooker) 32 #7939

* (with Protter, Murray H.) Maximum principles in differential equations. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1967. x + 261 *pp.* (M. Shinbrot) 36 #2935

On a nonlinear eigenvalue problem. *J. Math. Anal. Appl.* 21 (1968), 506-509. (W. Stenger) 36 #5750

Weinberger, Ota

Théorie des propositions normatives. Quelques remarques au sujet de l'interprétation normative des systèmes K_1 et K_2 de M. Kalinowski. (Polish and Russian summaries) *Studia Logica* 9 (1960), 7-25. 29 #5715

Weinel, Ernst

Lineare Randwertaufgaben und Grassmannsche Koordinaten in projektiven Funktionenräumen. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 14 (1965), 409-416. (F. Selig) 38 #4038

Weiner, Howard J.

Asymptotic properties of an age dependent branching process. *Ann. Math. Statist.* 36 (1965), 1565-1568. (P. E. Ney) 32 #3142

An integral equation in age dependent branching processes. *Ann. Math. Statist.* 36 (1965), 1569-1573. (P. E. Ney) 32 #3143

The gradient iteration in time series analysis. *J. Soc. Indust. Appl. Math.* 13 (1965), 1096-1101. (A. V. Balakrishnan) 33 #3428

Monotone convergence of moments in age dependent branching processes. *Ann. Math. Statist.* 37 (1966), 1806-1808. (I. J. Good) 34 #867

Applications of the age distribution in age dependent branching processes. *J. Appl. Probability* 3 (1966), 179-201. (P. E. Ney) 33 #1898

On age dependent branching processes. *J. Appl. Probability* 3 (1966), 383-402. (D. G. Kendall) 36 #2232

Nonlinear predictors depending on the last observation. *SIAM J. Appl. Math.* 15 (1967), 1378-1384. (Simeon M. Berman) 37 #975

Invariant measures and Cesàro summability. *Pacific J. Math.* 25 (1968), 621-629. (J. Král) 37 #6439

Sums of lifetimes in age dependent branching processes. *J. Appl. Probability* 6 (1969), 195-200. (Bernard Harris) 39 #4952

Weiner, Jerome H.

Classical and quantum rate theories for solids. *Phys. Rev* (2) 169 (1968), 570-577. (U. M. Titulaer) 42 #4152

Weiner, L. M.

Note on Newton's method. *Math. Mag.* 39 (1966), 143-145. (C.-B. Ling) 34 #949

(with Partom, Y.) Quantum rate theory for solids. II. One-dimensional tunneling effects. *Phys. Rev.* (2) 187 (1969), 1134-1146. (U. M. Titulaer) 41 #3051

Weiner, Peter

(with Ullman, J. D.) Uniform synthesis of sequential circuits. *Bell System Tech. J.* 48 (1969), 1115-1127. (Authors' summary) 39 #3914

(with Steiglitz, Kenneth; Kleitman, D. J.) The design of minimum-cost survivable networks. *IEEE Trans. Circuit Theory* CT-16 (1969), 455-460. (From the authors' summary) 40 #5347

(with Liu. L. Y.) A characterization of semilinear sets. *J. Comput. System Sci.* 4 (1970), 299-307. (J.-F. Perrot) 42 #4344

Weiner, R. S.

Forced axisymmetric motions of circular elastic plates. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 893-898. 32 #6758

Weiner, Sister Margaret M.

(with Flatto, Leopold) Invariants of finite reflection groups and mean value problems. *Amer. J. Math.* 91 (1969), 591-598. (J. A. Todd) 40 #2762

Weinert, Hanns Joachim

Unterhalbkörper quadratischer Zahlkörper. *Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe* 8 (1963/64), 83-86. (A. Sade) 32 #4125

Eine Bemerkung zur Definition halbgeordneter Mengen. *Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe* 8 (1963/64), 87-88. (A. Sade) 32 #2334

Ein Struktursatz für idempotente Halbkörper. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 289-295. (Y. Utumi) 29 #4775

Halbgruppen ohne Frattinische Unterhalbgruppe. *Acta Math. Acad. Sci. Hungar.* 15 (1964), 309-323. (K. Drbohlav) 29 #5948

* (with Lugowski, Herbert) Grundzüge der Algebra. Teil I: Allgemeine Gruppentheorie. Zweite verbesserte Auflage. Mathematisch-Naturwissenschaftliche Bibliothek, Band 9. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1964. v + 234 *pp.* (Editors) 31 #236

Zur Theorie der Algebren und monomialen Ringe. *Acta Sci. Math. (Szeged)* 26 (1965), 171-186. (G. Pickert) 31 #2287

Zur Erweiterung algebraischer Strukturen durch Rechtsquotientenbildung. *Acta Math. Acad. Sci. Hungar.* 16 (1965), 213-214. (R. E. Johnson) 30 #3932

* (with Lugowski, Herbert) Grundzüge der Algebra. Teil II. Allgemeine Ring- und Körpertheorie. Zweite, verbesserte Auflage. Mathematisch-Naturwissenschaftliche Bibliothek, 10. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1965. iii + 227 *pp. (2 inserts)* (P. Abellanas) 33 #5655

* (with Lugowski, Herbert) Einführung in die Algebra, Arithmetik und Zahlentheorie. Erster Teil: Algebraische Strukturen. Dritte, überarbeitete Auflage. *Pädagogische Hochschule Potsdam, Potsdam,* 1965. 147 *pp.* (W. E. Deskins) 35 #6497a

* (with Lugowski, Herbert) Einführung in die Algebra, Arithmetik und Zahlentheorie. Zweiter Teil: Aufbau der Arithmetik. I. Dritte, überarbeitete Auflage. *Pädagogische Hochschule Potsdam, Potsdam,* 1965. 108 *pp.* (W. E. Deskins) 35 #6497b

(with Rédei, László) Ein Gleichverteilungssatz für Systeme homogener Linearformen modulo p. *Acta Sci. Math. (Szeged)* 27 (1966), 41-43. (W. E. Deskins) 33 #7293a

(with Rédei, László) Verallgemeinerung eines Satzes über homogene Linearformen. *Acta Sci. Math. (Szeged)* 27 (1966), 45-48. (W. E. Deskins) 33 #7293b

* (with Lugowski, Herbert) Einfürung in die Algebra, Arithmetik und Zahlentheorie. Dritter Teil: Aufbau der Arithmetik. II. Zweite, überarbeitete Auflage. *Pädagogische Hochschule Potsdam, Potsdam,* 1966. 121 *pp.* (W. E. Deskins) 35 #6497c

* (with Lugowski, Herbert) Einführung in die Algebra, Arithmetik und Zahlentheorie. Fünfter Teil: Polynome und ihre Nullstellen. *Pädagogische Hochschule Potsdam, Potsdam,* 1965. 129 *pp.* (W. E. Deskins) 35 #6497e

* (with Lugowski, Herbert) Einführung in die Algebra, Arithmetik und Zahlentheorie. Vierter Teil: Elementare Zahlentheorie. Dritte, überarbeitete Auflage. *Pädagogische Hochschule Potsdam, Potsdam,* 1966. 136 *pp.* (W. E. Deskins) 35 #6497d

On the theory of pre-p-rings. *Amer. Math. Monthly* 74 (1967), 378-384. (W. A. McWorter) 35 #2922

Some remarks on ordered semigroups. *Amer. Math. Monthly* 76 (1969), 1029-1031. (T. S. Blyth) 40 #1314

(with Klotzek, Benno) Bemerkungen zur Theorie der bewerteten Körper. *Math. Nachr.* 39 (1969), 97-115. (H. S. Butts) 39 #1438

On the extension of partial orders on semigroups of right quotients. *Trans. Amer. Math. Soc.* 142 (1969), 345-353. (T. S. Blyth) 39 #6801

Extension of partial orders on a semigroup to semigroups of quotients. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 449-451. (D. G. Johnson) 42 #4462

Semigroups of right quotients of topological semigroups. *Trans. Amer. Math. Soc.* 147 (1970), 333-348. (N. J. Rothman) 40 #5771

Weinert, Horst

Bibliographie über Optimierungsprobleme unter Ungewissheit. *Operationsforschung und Mathematische Statistik, I, pp.* 137-151. *Akademie-Verlag, Berlin,* 1968. (Editors) 39 #3804

Probleme der linearen Optimierung mit nichtlineareinparametrischen Koeffizienten in der Zielfunktion. (English and French summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 1, 21-44. (J. Stoer) 42 #1514

Doppelt-einparametrische lineare Optimierung. I. Unabhängige Parameter. (English and French summaries) *Math. Operationsforsch. Statist.* 1 (1970), *Heft* 3, 173-197. (H. Weber) 43 #7207

Doppelt-einparametrische lineare Optimierung. II. Abhängige Parameter. (English and French summaries) *Math. Operationsforsch. Statist.* 2 (1971), *Heft* 1, 19-39. (H. Weber) 43 #7208

(See also Černīkov, S. M., 42 #4571)

Weingartner, Paul

Modal logics with two kinds of necessity and possibility. *Notre Dame J. Formal Logic* 9 (1968), 97-159. (A. Salomaa) 39 #2622

Weingram, Stephen

The realization of a semisimplicial bundle map is a k-bundle map. *Trans. Amer. Math. Soc.* 127 (1967), 495-514. (R. H. Rosen) 37 #6937

On the triangulation of the realization of a simisimplicial complex. *Illinois J. Math.* 12 (1968), 403-413. (R. H. Rosen) 38 #6579

(with Jerison, Meyer; Siegel, Jerrold) Distinctive properties of Stone-Čech compactifications. *Topology* 8 (1969), 195-201. (A. W. Hager) 39 #4607

Weinhold, Frank

Criteria of accuracy of approximate wave functions. *J. Mathematical Phys.* 11 (1970), 2127-2138. (C. Froese Fischer) 42 #4138

Weinitschke, Hubertus J.

Über eine Klasse von Iterationsverfahren. *Numer. Math.* 6 (1964), 395-404. (L. Collatz) 30 #1624

On asymmetric buckling of shallow spherical shells. *J. Math. and Phys.* 44 (1965), 141-163. (R. P. Nordgren) 31 #5391

Existenz- und Eindeutigkeitssätze für die Gleichungen der kreisförmigen Membran. *Methoden und Verfahren der Mathematischen Physik, Band* 3 (*Oktober* 1970), *pp.* 117-139. *Bibliographisches Inst., Mannheim,* 1970. (R. Nardini) 43 #4320

Weinless, Michael

Existence and uniqueness of the vacuum for linear quantized fields. *J. Functional Analysis* 4 (1969), 350-379. (S. Gudder) 40 #6901

Weinmann, A.

Asymptotic expansions of generalized Bernoulli polynomials. *Proc. Cambridge Philos. Soc.* 59 (1963), 73-80. (L. M. Milne-Thomson) 29 #5009

Weinshenk, R. J.

(with Hoggatt, V. E., Jr.) On solving $C_{n+2} = C_{n+1} + C_n + n^m$ by expansions and operators. *Fibonacci Quart.* 8 (1970), *no.* 1, 39-48, 60. (J. H. Curtiss) 41 #2248

Weinstein, Alan D.

On the homotopy type of positively-pinched manifolds. *Arch. Math. (Basel)* 18 (1967), 523-524. (R. L. Bishop) 36 #3376

The cut locus and conjugate locus of a riemannian manifold. *Ann. of Math.* (2) 87 (1968), 29-41. (I. Chavel) 36 # 4486

A fixed point theorem for positively curved manifolds. *J. Math. Mech.* 18 (1968/69), 149-153. (S. Kobayashi) 37 #3478

Symplectic structures on Banach manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 1040-1041. (N. H. Kuiper) 39 #6364

(with Simon, Udo) Anwendungen der de Rhamschen Zerlegung auf Probleme der lokalen Flächentheorie. (English summary) *Manuscripta Math.* 1 (1969), 139-146. (I. Chavel) 39 #7538

Sur la non-densité des géodésiques fermées. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A504. (C. B. Allendoerfer) 42 #3713

The generic conjugate locus. *Global Analysis (Proc. Sympos. Pure Math., Vol. XV, Berkeley, Calif.,* 1968*), pp.* 299-301. *Amer. Math. Soc., Providence, R. I.,* 1970. (I. Chavel) 42 #6874

Positively curved n-manifolds in R^{n+2}. *J. Differential Geometry* 4 (1970), 1-4. (E. M. Zaustinsky) 41 #9154

Positively curved deformations of invariant Riemannian metrics. *Proc. Amer. Math. Soc.* 26 (1970), 151-152. (N. R. Wallach) 41 #7582

(with Marsden, Jerrold) A comparison theorem for Hamiltonian vector fields. *Proc. Amer. Math. Soc.* 26 (1970), 629-631. (J. Moser) 42 #8525

Symplectic manifolds and their Lagrangian submanifolds. *Advances in Math.* 6, 329-346 (1971). (D. G. Ebin) 44 #3351

Perturbation of periodic manifolds of Hamiltonian systems. *Bull. Amer. Math. Soc.* 77 (1971), 814-818. (U. D'Ambrosio) 43 #6949

(with Roels, Jacques) Functions whose Poisson brackets are constants. *J. Mathematical Phys.* 12 (1971), 1482-1486. (G. R. Allcock) 44 #6273

Weinstein, Alexander

Some applications of generalized axially symmetric potential theory to continuum mechanics. *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi,* 1963*), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp.* 440-453. *Izdat. "Nauka", Moscow,* 1965. (W. D. Collins) 32 #8611

Some applications of the new maximum-minimum theory of eigenvalues. *J. Math. Anal. Appl.* 12 (1965), 58-64. (W. W. Hooker) 32 #282

La teoria di massimo-minimo degli autovalori ed il metodo dei problemi intermedi. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 596-609. *Ediz. Cremonese, Rome,* 1965. (S. H. Gould) 33 #4470

Some results in intermediate problems for eigenvalues. *Simpos. Internaz. Appl. Anal. Fis. Mat. (Cagliari-Sassari,* 1964*), pp.* 218-234. *Edizioni Cremonese, Rome,* 1965. (S. H. Gould) 34 #8635

On the determination of persistent eigenvalues. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 40 (1966), 515-522. (D. F. Mayers) 35 #1201

An invariant formulation of the new maximum-minimum theory of eigenvalues. *J. Math. Mech.* 16 (1966), 213-218. (D. O. Banks) 35 #3475

Some numerical results in intermediate problems for eigenvalues. *Numerical Solution of Partial Differential Equations (Proc. Sympos. Univ. Maryland,* 1965*), pp.* 167-191. *Academic Press, New York,* 1966. (L. Collatz) 34 #5326

On the new maximum-minimum theory of eigenvalues. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio,* 1965*), pp.* 329-338. *Academic Press, New York,* 1967. (S. H. Gould) 36 #4369

On the base problem for a compact integral operator. *J. Math. Mech.* 17 (1967), 217-223. (D. O. Banks) 35 #3493

Weinstein, I. See Vaĭnsteĭn, I. A.

Weinstein, M. A.

(with Dashen, Roger) Experimental tests for theories of chiral-symmetry breaking. *Phys. Rev.* (2) 188 (1969), 2330-2341. (D. Lurié) 41 #4921

Weinstein, Stanley E.

Approximations of functions of several variables: Product Chebychev approximations. I. *J. Approximation Theory* 2 (1969), 433-447. (Y. Ikebe) 40 #7683

Solution of nonlinear equations by iterative procedures which use approximation techniques. *SIAM J. Numer. Anal.* 6 (1969), 272-283. (J. F. Traub) 40 #6767

Weinstock, Barnet M.

Continuous boundary values of analytic functions of several complex variables. *Proc. Amer. Math. Soc.* 21 (1969), 463-466. (J. Kajiwara) 38 #6106

An approximation theorem for ∂ -closed forms of type $(n, n - 1)$. *Proc. Amer. Math. Soc.* 26 (1970), 625-628. (J. Kajiwara) 42 #547

Weinstock, Jerome

Generalized master equation for quantum-mechanical systems to all orders in the sensity. *Phys. Rev.* (2) 136 (1964), A879-A888. (G. Weiss) 31 #3146

Generalized master equation for arbitrary initial states. *Phys. Rev.* (2) 140 (1965), A98-A99. (G. Weiss) 32 #8902

Nonanalyticity of transport coefficients and the complete density expansion of momentum correlation functions. *Phys. Rev.* (2) 140 (1965), A460-A465. (J. R. Dorfman) 32 #8966

Formulation of a statistical theory of strong plasma turbulence. *Phys. Fluids* 12 (1969), 1045-1058. (F. C. Auluck) 40 #3865

Weinstock, Robert

Derivation of the Lorentz-transformation equations without a linearity assumption. *Amer. J. Phys.* 32 (1964), 260-264. (Mary L. Boas) 29 #4568

Heat capacity of an ideal free-electron gas: A rigorous derivation. *Amer. J. Phys.* 37 (1969), 1273-1279. (M. H. Ernst) 40 #6904

Weintraub, Sol

* (with Sard, Arthur) A book of splines. *John Wiley & Sons, Inc., New York-London-Sydney,* 1971. x + 817 *pp.* (John Todd) 44 #1191

Weinzweig, A. I.

The fundamental group of a union of spaces. *Pacific J. Math.* 11 (1961), 763-776. (E. G. Skljarenko (MŽMat 1962 #7 A280)) 30 #5318

Weir, A. J.

* (with Gruenberg, K. W.) Linear geometry. *D. Van Nostrand Co., Inc., Princeton, N. J.-Toronto, Ont.-London,* 1967. viii + 186 *pp.* (L. M. Kelly) 36 #6423

Weir, D. G.

The propagation of a constant strength shock through a simple wave. *Proc. Edinburgh Math. Soc.* (2) 13 (1962/63), 277-284. (T. Yao-tsu Wu) 31 #4308

Weir, J. B. de V. See de V. Weir, J. B.

Weisberg, Herbert

The distribution of linear combinations of order statistics from the uniform distribution. *Ann. Math. Statist.* 42 (1971), 704-709. 44 #3444

Weisberger, William I.

Renormalization of the weak axial-vector coupling constant. *Phys. Rev. Lett.* 14 (1965), 1047-1051. (S. L. Adler) 32 #858

Weischedel, Herbert R.

A solution of the discrete minimum-time control problem. *J. Optimization Theory Appl.* 5 (1970), 81-96. (J. Casti) 41 #9426

Weise, Karl Heinrich

* Differentialgleichungen. Studia Mathematica-Mathematische Lehrbücher, Band XVII. *Vandenhoeck & Ruprecht, Göttingen,* 1966. 358 *pp.* (I. Fenyő) 34 #6177

Weisenhorn, Franz

Ein Beitrag zur Bestimmung der Nullstellen aus einem Polynom in Summenform und aus der Summe von Polynomen in Produktform. (English summary) *Arch. Elek. Übertr.* 24 (1970), 372-378. (H. H. Goldstine) 44 #4897

Weisfeld, Morris

Purely inseparable extensions and higher derivations. *Trans. Amer. Math. Soc.* 116 (1965), 435-449. (E. Inaba) 33 #122

Tensor products of *F*-vector spaces. *Proc. Amer. Math. Soc.* 19 (1968), 1373-1378. (H. Gross) 38 #2156

Weishu, Shih. See Shih, Weishu.

Weisman, Carl S.

On the connected identity component of the adèle-class group of an algebraic torus. *Proc. Amer. Math. Soc.* 21 (1969), 155-160. (T. Ono) 39 #5580

Weisner, Louis

A Room design of order 10. *Canad. Math. Bull.* 7 (1964), 377-378. (T. G. Room) 29 #4707

Weiss, A. D.

(with Olunloyo, V. O. S.) On the completeness of the totitives of a natural number. *J. London Math. Soc.* 40 (1965), 518-522. (J. V. Armitage) 31 #3373

(with Olunloyo, V. O. S.) On the completeness of the totitives of a natural number. *Amer. Math. Monthly* 73 (1966), 490-494. (Editors) 34 #5742

(with Olunloyo, V. O. S.) A group-theoretic characterisatio of the primes. *Amer. Math. Monthly* 73 (1966), 858-860. (J. V. Armitage) 35 #121

Weiss, Benjamin

(with Konheim, Alan G.) Functions which operate on characteristic functions. *Pacific J. Math.* 15 (1965), 1279-1293. (C. S. Herz) 33 #507

(with Miranker, W. L.) The Feynman operator calculus. *SIAM Rev.* 8 (1966), 224-232. (I. Aganović) 36 #3079

Abstract vibrating systems. *J. Math. Mech.* 17 (1967), 241-255. (H. O. Fattorini) 36 #5485

Measures that vanish on half spaces. *Proc. Amer. Math. Soc.* 18 (1967), 123-126. (J. L. Griffith) 34 #8088

(with Adler, R. L.) Entropy, a complete metric invariant for automorphisms of the torus. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 1573-1576. (D. Newton) 35 #3031

(with Rivlin, T. J.) Some best polynomial approximations in the plane. *Duke Math. J.* 35 (1968), 475-482. (J. L. Fields) 37 #5403

(with Chazan, Dan; Konheim, Alan G.) A note on time-sharing. *J. Combinatorial Theory* 5 (1968), 344-369. (J. F. C. Kingman) 38 #916

(with Rivlin, T. J.) Lanczos' τ-method and polynomial approximation in the plane. *J. Math. Anal. Appl.* 22 (1968), 402-417. (E. B. Saff) 41 #3781

(with Konheim, Alan G.) A note on functions which operate. *Pacific J. Math.* 24 (1968), 297-302. (C. S. Herz) 39 #1907

Titchmarsh's convolution theorem on groups. *Proc. Amer. Math. Soc.* 19 (1968), 75-79. (M. Rajagopalan) 36 #4274

* (with Adler, Roy L.) Similarity of automorphisms of the torus. Memoirs of the American Mathematical Society, No. 98. *American Mathematical Society, Providence, R. I.,* 1970. ii + 43 *pp.* (D. Newton) 41 #1966

Intrinsically ergodic systems. *Bull. Amer. Math. Soc.* 76 (1970), 1266-1269. (R. L. Adler) 42 #1978

(with Chazan, D.) Higher order autocorrelation functions as translation invariants. *Information and Control* 16 (1970), 378-383. (P. L. Butzer and W. Trebels) 43 #1749

Weiss, C. Dennis

(with Kim, W. H.) Realization of transformerless multiport networks with negative resistors. *Proc. Sympos. on Generalized Networks (New York, 1966), pp.* 517-555. *Polytechnic Press, Brooklyn, N. Y.,* 1966. (Authors' summary) 43 #6014

The characterization and properties of cascade realizable switching functions. *IEEE Trans. Computers* C-18 (1969), 624-633. (C. L. Sheng) 40 #4016

Weiss, Daniel

(with Pham, Daniel) Sur quelques problèmes aux limites dans les systèmes d'équations différentielles linéaires at quasi-linéaires. *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 289-306. (W. M. Whyburn) 34 #4595

(with Pham, Daniel) Sur ùn problème aux limites pour un système ordinaire d'équations différentielles. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A123-A126. (R. Conti) 33 #4365

(with Pham, Daniel) Produit continu dans les algèbres de Banach. *Mathematica (Cluj)* 8(31) (1966), 121-132. (J. J. Schäffer) 35 #737

(with Pham, Daniel) Sur les solutions pseudo-absolument continues des systèmes différentiels avec conditions interfaces. *Mathematica (Cluj)* 10(33) (1968), 327-354. (W. M. Whyburn) 39 #7202

Weiss, Edwin

Linear codes of constant weight. *SIAM J. Appl. Math.* 14 (1966), 106-111. (H. F. Mattson, Jr.) 32 #7352

Coset representatives. *Portugal. Math.* 26 (1967), 259-260. (Editors) 41 #324

Addendum: "Linear codes of constant weight". *SIAM J. Appl. Math.* 15 (1967), 229-230. (H. F. Mattson, Jr.) 35 #6487

* Cohomology of groups. Pure and Applied Mathematics, Vol. 34. *Academic Press, New York-London,* 1969. x + 274 *pp.* (J. V. Armitage) 41 #8499

* First course in algebra and number theory. *Academic Press, New York-London,* 1971. xi + 547 *pp.* (J. E. Whitesitt) 43 #4592

Weiss, Ernst-August

Konjugierte Funktionen. *Arch. Math. (Basel)* 20 (1969), 538-545. (J. Stoer) 40 #4407

Kohomologiering und Darstellungsring endlicher Gruppen. *Bonn. Math. Schr. No.* 36 (1969), v + 47 *pp.* (D. K. Friesen) 40 #4375

Weiss, George H.

On the pedestrian queueing problem. (French summary) *Bull. Inst. Internat. Statist.* 39 (1962), *livraison* 4, 163-168. 31 #5255

Optimal periodic inspection programs for randomly failing equipment. *J. Res. Nat. Bur. Standards Sect. B* 67B (1963), 223-228. (K. J. Arrow) 29 #5640

An analysis of pedestrian queueing. *J. Res. Nat. Bur. Standards Sect. B* 67B (1963), 229-243. (G. Newell) 29 #5309

(with Oser, Hansjörg; Shuler, Kurt E.) Relaxation of a Lorentz gas with a repulsive r^{-s} force law. *J. Chem. Phys.* 41 (1964), 2661-2666. (Authors' summary) 29 #5576

Simple derivation of the Faxén solution to the Lamm equation. *J. Mathematical Phys.* 5 (1964), 675-676. (G. Newell) 29 #886

A note on a generalized elliptic integral. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 1-2. (S. Fempl) 29 #2439

Calculation of certain multiple generating functions. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 13-15. (L. Carlitz) 29 #1469

Effects of a distribution on gap acceptance functions on pedestrian queues. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 31-33. (Author's summary) 29 #1679

(with Evans, David H.; Herman, Robert) The highway merging and queuing problem. *Operations Res.* 12 (1964), 832-857. (G. Newell) 30 #4305

A survey of some recent research in road traffic. (With discussion) *Proc. Sympos. Congestion Theory (Chapel Hill, N. C., 1964), pp.* 253-288. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1965. (S. Ekberg) 33 #3378

(with Kimura, Motoo) A mathematical analysis of the stepping stone model of genetic correlation. *J. Appl. Probability* 2 (1965), 129-149. (J. Gani) 31 #2089

(with Zelen, Marvin) A semi-Markov model for clinical trials. *J. Appl. Probability* 2 (1965), 269-285. (R. M. Cormack) 32 #7266

(with Montroll, Elliott W.) Random walks on lattices. II. *J. Mathematical Phys.* 6 (1965), 167-181. (F. L. Spitzer) 30 #2563

(with McKean, H. P., Jr.; Schreiber, Morris) Isoperimetric problem with application to the figure of cells. *J. Mathematical Phys.* 6 (1965), 479-484. (F. Supnick) 30 #4194

(with Pettigrew, Hugh M.) Epidemics with carriers: The large population approximation. *J. Appl. Probability* 4 (1967), 257-263. (K. Dietz) 35 #7706

(with Sobel, Milton) Inverse sampling and other selection procedures for tournaments with 2 or 3 players. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 515-543. *Cambridge Univ. Press, London,* 1970. (S. Panchapakesan) 43 #2793

(with Sobel, Milton) Play-the winner sampling for selecting the better of two binomial populations. *Biometrika* 57 (1970), 357-365. (V. Fabian) 43 #7014

(with Gillis, Joseph E.) Expected number of distinct sites visited by a random walk with an infinite variance. *J. Mathematical Phys.* 11 (1970), 1307-1312. (F. L. Spitzer) 41 #4665

Weiss, Guido

(with Kahane, J.-P.; Weiss, Mary) On lacunary power series. *Ark. Mat.* 5, 1-26 (1963). (V. F. Cowling) 32 #7716

(with Hunt, Richard A.) The Marcinkiewicz interpolation theorem. *Proc. Amer. Math. Soc.* 15 (1964), 996-998. (S. R. Foguel) 29 #6293

(with Stein, E. M.; Weiss, Mary) H^p classes of holomorphic functions in tube domains. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1035-1039. (J. Mitchell) 31 #3634

Harmonic analysis. *Studies in Real and Complex Analysis, pp.* 124-178. *Math. Assoc. Amer. (Distributed by Prentice-Hall, Englewood Cliffs, N. J.),* 1965. (Editors) See 32 #1080

(with Coifman, R.) A kernel associated with certain multiply connected domains and its applications to factorization theorems. *Studia Math.* 28 (1966/67), 31-68. (D. Gaier) 36 #6598

(with Stein, E. M.) Generalization of the Cauchy-Riemann equations and representations of the rotation group. *Amer. J. Math.* 90 (1968), 163-196. (H. Jacquet) 36 #6540

(with Coifman, R. R.) Representations of compact groups and spherical harmonics. *Enseignement Math.* (2) 14 (1968), 121-173 (1969). (Y. Lehrer-Ilamed) 41 #537

Complex methods in harmonic analysis. *Amer. Math. Monthly* 77 (1970), 465-474. (H. Kober) 41 #5886

(with Coifman, Ronald R.) Théorèmes sur les multiplicateurs de Fourier sur SU(2) et Σ_2. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A928-A930. (Authors' summary) 42 #6157

(with Coifman, R. R.) On subharmonicity inequalities involving solutions of generalized Cauchy-Riemann equations. *Studia Math.* 36 (1970), 77-83. (M. Itô) 42 #6265

Weiss, J.

Sur l'unicité des solutions de certains problèmes aux limites pour l'équation hyperbolique-parabolique. *Ann. Polon. Math.* 16 (1964), 27-33. (R. Carroll) 30 #363

Weiss, Jaroslav

Über die Lageänderung der Wurzeln der charakteristischen Gleichung des Abtastregelkreises. *Acta Tech. ČSAV* 12 (1967), 730-749. (Author's summary) 40 #2369

Weiss, Leonard

On the foundations of transfer function analysis. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 343-365. (K. Yosida) 30 #2177

Weighting patterns and the controllability and observability of linear systems. *Proc. Nat. Acad. Sci. U.S.A.* 51 (1964), 1122-1127. (A. W. Babister) 29 #3306

Dual dynamical systems and their representation by system functions. *Internat. J. Control* (1) 1 (1965), 475-485. (G. Doetsch) 33 #2465

On system functions with the property of separability. *Internat. J. Control* (1) 1 (1965), 487-496. (G. Doetsch) 33 #2466

(with Kalman, R. E.) Contributions to linear system theory. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 141-171. (A. V. Balakrishnan) 32 #1039

The concepts of differential controllability and differential observability. *J. Math. Anal. Appl.* 10 (1965), 442-449. (R. E. Kalman) 34 #1093 (E)

(with Infante, E. F.) On the stability of systems defined over a finite time interval. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 44-48. (C. S. Coleman) 31 #3675

Correction and addendum to: "The concepts of differential controllability and differential observability". *J. Math. Anal. Appl.* 13 (1966), 577-578. (Editors) 35 #7709

(with Infante, E. F.) Finite time stability under perturbing forces and on product spaces. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R., 1965), pp.* 341-350. *Academic Press, New York,* 1967. (C. S. Coleman) 36 #1775

(with Infante, E. F.) Finite time stability under perturbing forces and on product spaces. *IEEE Trans. Automatic Control* AC-12 (1967), 54-59. (G. MacKenzie) 35 #486

On the controllability of delay-differential systems. *SIAM J. Control* 5 (1967), 575-587. (H. T. Banks) 38 #6195

Converse theorems for finite time stability. *SIAM J. Appl. Math.* 16 (1968), 1319-1324. (A. Strauss) 38 #6172

On the structure theory of linear differential systems. *SIAM J. Control* 6 (1968), 659-680. (M. Q. Jacobs) 40 #1154

Lectures on controllability and observability. *Controllability and Observability (C.I.M.E. 1° Ciclo, Sasso Marconi (Bologna), 1968), pp.* 201-289. *Edizioni Cremonese, Rome,* 1969. (W. M. Wonham) 40 #3931

On uniform and nonuniform finite-time stability. *IEEE Trans. Automatic Control* AC-14 (1969), 313-314. (C. S. Coleman) 41 #9614

(with Falb, P. L.) Doležal's theorem, linear algebra with continuously parametrized elements, and time-varying systems. *Math. Systems Theory* 3 (1969), 67-75. (E. B. Lee) 44 #2765

An algebraic criterion for controllability of linear systems with time delay. *IEEE Trans. Automatic Control* AC-15 (1970), 443-444. (C. H. Chyung) 43 #8410

* (with Lee, Jong-sen) Finite-time stability of linear discrete-time systems. Mathematics Research Center, Report 71-3. NRL Report 7232. *Naval Research Laboratory, Washington, D C.,* 1971. 10 *pp.* (Authors' summary) 43 #1688

Weiss, Lionel

A sequential test of fit for multivariate distributions. *Sankhyā Ser. A* 24 (1962), 377-384. (M. M. Siddiqui) 30 #682

Sequential Bayes procedures which never observe more than a bounded number of observations. *Ann. Inst. Statist. Math.* 15 (1963), 177-185. (H. D. Brunk) 30 #2610

The relative maxima of the likelihood function. *Skand. Aktuarietidskr.* 1963, 162-166 (1964). (H. D. Brunk) 30 #1577

On the asymptotic joint normality of quantiles from a multivariate distribution. *J. Res. Nat. Bur. Standards Sect. B.* 68B (1964), 65-66. (M. M. Siddiqui) 29 #4139

On estimating location and scale parameters from truncated samples. *Naval Res. Logist. Quart.* 11 (1964), 125-134. (J. N. Darroch) 31 #6308

Further properties of a sequential test of fit. *Sankhyā Ser. A* 26 (1964), 373-378. (Author's summary) 32 #1819

On the asymptotic distribution of the largest sample spacing. *J. Soc. Indust. Appl. Math.* 13 (1965), 720-731. (L. A. Aroian) 32 #526

On asymptotic sampling theory for distributions approaching the uniform distribution. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 217-221 (1965). (D. R. Barr) 32 #8451

On the asymptotic power of Cramér-von Mises tests of fit. *Ann. Inst. Statist. Math.* 18 (1966), 149-153. (T. A. Willke) 35 #2429

(with Solfowitz, J.) Generalized maximum likelihood estimators. (Russian summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 68-93. (P. J. Huber) 34 #3707

(with Wolfowitz, J.) Maximum probability estimators. *Ann. Inst. Statist. Math.* 19 (1967), 193-206. (J. R. Blum) 38 #813

Some properties of a class of tests of fit. *Ann. Inst. Statist. Math.* 19 (1967), 389-399. (E. H. Lehman, Jr.) 36 #4750

The relative maxima of the likelihood functions. II. *Skand. Aktuarietidskr.* 1966, 119-121 (1967). (S. Kotz) 36 #4694

(with Wolfowitz, J.) Estimation of a density function at a point. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 327-335. (A. Fuchs) 37 #5973

Approximating maximum likelihood estimators based on bounded random variables. *Naval Res. Logist. Quart.* 15 (1968), 169-177. (G. Roussas) 38 #1776

(with Wolfowitz, J.) Generalized maximum likelihood estimators in a particular case. (Russian summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 657-662. (V. Kurotschka) 40 #968

Limiting distributions of homogeneous functions of sample spacings for distributions approaching the uniform distribution. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 10 (1968), 193-197. (L. A. Aroian) 38 #3907

(with Wolfowitz, J.) Maximum probability estimators with a general loss function. *Probability and Information Theory (Proc. Internat. Sympos., McMaster Univ., Hamilton, Ont., 1968), pp.* 232-256. *Springer, Berlin,* 1969. (J. Kiefer) 42 #3911

The asymptotic joint distribution of an increasing number of sample quantiles. *Ann. Inst. Statist. Math.* 21 (1969), 257-263. 39 #7712

The joint asymptotic distribution of the k-smallest sample spacings. *J. Appl. Probability* 6 (1969), 442-448. (P. Holgate) 40 #4988

(with Wolfowitz, J.) Asymptotically minimax tests of composite hypotheses. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 161-168. (D. V. Lindley) 41 #2830

Asymptotic distributions of quantiles in some nonstandard cases. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 343-348. *Cambridge Univ. Press, London,* 1970. (G. Roussas) 43 #1352

(with Wolfowitz, J.) Maximum probability estimators and asymptotic sufficiency. *Ann. Inst. Statist. Math.* 22 (1970), 225-244. (I. Guttman) 43 #4075

Asymptotic inference about a density function at an end of its range. *Naval Res. Logist. Quart.* 18 (1971), 111-114. (I. Guttman) 43 #8169

Weiss, Manfred

Axiomatische Untersuchungen zur elementaren Theorie der freien Halbgruppen mit Substitution als undefiniertem Grundbegriff. *Z. Math. Logik Grundlagen Math.* 13 (1967), 265-280. (A. Nerode) 35 #6540

Weiss, Mary

(with Kahane, J.-P.; Weiss, Guido) On lacunary power series. *Ark. Mat.* 5, 1-26 (1963). (V. F. Cowling) 32 #7716

(with Stein, E. M.; Weiss, Guido) H^p classes of holomorphic functions in tube domains. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1035-1039. (J. Mitchell) 31 #3634

Total and partial differentiability in L^p. *Studia Math.* 25 (1964/65), 103-109. (S. Marcus) 31 #5943

(with Zygmund, A.) An example in the theory of singular integrals. *Studia Math.* 26 (1965), 101-111. (H. Kober) 32 #8067

Strong differentials in L^p. *Studia Math.* 27 (1966), 49-72. (T. A. Botts) 33 #5800

(See also Zygmund, A., 37 #6153)

A theorem on lacunary trigonometric series. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill., 1967), pp.* 227-230. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (W. K. Hayman) 38 #4893

(with Zygmund, Antoni) On multipliers preserving convergence of trigonometric series almost everywhere. *Studia Math.* 30 (1968), 111-120. (D. Waterman) 38 #2526

Weiss, Max L.

Cluster sets of bounded analytic functions from a Banach algebraic viewpoint. *Ann. Acad. Sci. Fenn. Ser. A I No.* 367 (1965), 14 *pp.* (W. B. Woolf) 35 #379

Some separation properties in sup-norm algebras of continuous functions. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 93-97. *Scott-Foresman, Chicago, Ill.,* 1966. (N. L. Alling) 33 #1756

(with Bruckner, A. M.; Ceder, J. G.) Uniform limits of Darboux functions. *Colloq. Math.* 15 (1966), 65-77. (H. Fast) 33 #5794

(with Ceder, Jack) Some in-between theorems for Darboux functions. *Michigan Math. J.* 13 (1966), 225-233. (S. Marcus) 33 #7465

(with Bear, H. S.) An intrinsic metric for parts. *Proc. Amer. Math. Soc.* 18 (1967), 812-817. (S. J. Sidney) 35 #5888

(with Ceder, Jack) Some approximation theorems for Baire functions and Darboux functions. *Rev. Roumaine Math. Pures Appl* 12 (1967), 527-535. (A. M. Bruckner) 35 #4349

Note on a theorem of Beurling. *Proc. Amer. Math. Soc.* 19 (1968), 793-795. (J. A. Cima) 37 #3006

(with Rosenfeld, Melvin) Bounded analytic functions tendin radially to zero. *Proc. London Math. Soc.* (3) 18 (1968), 714-726. (K. V. Rajeswara Fao) 38 #1269

(with Boehme, T. K.; Rosenfeld, Melvin) Relations between bounded analytic functions and their boundary functions. *J. London Math. Soc.* (2) 1 (1969), 609-618. (S. Fisher) 40 #2870

(with Bruckner, A. M.; Ceder, J. G.) On the differentiabil structure of real functions. *Trans. Amer. Math. Soc.* 142 (1969) 1-15. (K. M. Garg) 41 #3679

(with Rosenfeld, Melvin) A function algebra approach to a theorem of Lindelöf. *J. London Math. Soc.* (2) 2 (1970), 209-215 (J. Garnett) 41 #5975

(with Bruckner, A. M.) On approximate identities in abstra measure spaces. *Monatsh. Math.* 74 (1970), 289-301. (M. de Guzmán) 44 #396

(with Boehme, T. K.) One-sided boundary behavior for certa harmonic functions. *Proc. Amer. Math. Soc.* 27 (1971), 280-288. (Guy Johnson) 44 #5491

(with Boehme, T. K.) Extensions of Fatou's theorem to tangential asymptotic values. *Proc. Amer. Math. Soc.* 27 (1971), 289-298. (S. Dümmel) 42 #7920

Weiss, N. O.

Convection in the presence of restraints. *Philos. Trans. Roy. Soc. London Ser. A* 256 (1963/64), 99-147. (R. M. Mark) 30 #791

(with Roberts, K. V.) Convective difference schemes. *Math. Comp.* 20 (1966), 272-299. (O. Widlund) 33 #6857

Weiss, Norman J.

Almost everywhere convergence of Poisson integrals on tube domains over cones. *Trans. Amer. Math. Soc.* 129 (1967), 283-307. (R. P. Gilbert) 36 #5382

Almost everywhere convergence of Poisson integrals on generalized half-planes. *Bull. Amer. Math. Soc.* 74 (1968), 533-537. (A. Korányi) 36 #5383

An isometry of H^p spaces. *Proc. Amer. Math. Soc.* 19 (1968), 1083-1086. (S. Fisher) 37 #6489

(with Stein, E. M.) Convergence of Poisson integrals for bounded symmetric domains. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 1160-1162. (A. Korányi) 37 #5422

Convergence of Poisson integrals on generalized upper half-planes. *Trans. Amer. Math. Soc.* 136 (1969), 109-123. (A. Korányi) 38 #2335

(with Stein, E. M.) On the convergence of Poisson integrals *Trans. Amer. Math. Soc.* 140 (1969), 35-54. (A. Korányi) 39 #3024

(with Baum, Leonard E.; Petrie, Ted; Soules, George) A maximization technique occurring in the statistical analysis of probabilistic functions of Markov chains. *Ann. Math. Statist.* 41 (1970), 164-171. (Z. Šidák) 44 #4816

Multipliers on compact Lie groups. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 930-931. (A. Figà-Talamanca) 44 #730

Weiss, Peter

Zusammenhang von Walsh-Fourierreihen mit Polynomen. *Monatsh. Math.* 71 (1967), 165-179. (S. Izumi) 36 #1909

Informationstheorie. B. I. Hochschultaschenbücher 161/161a. *Überblicke Math.* 1 (1968), 115-131. (G. Solomon) 39 #2529

Weiss, Robert F.

(with Florsheim, Bruce H.) Flow in a cavity at low Reynolds number. *Phys. Fluids* 8 (1965), 1631-1635. (W. P. Graebel) 32 #4972

Weissbach, Bernulf

Die Reduktionsformeln von Poincaré und Schläfli. *Enseignement Math.* (2) 16 (1970), 307-310 (1971). (S. S. Cairns) 44 #461

Weissbach, Willi. See Nehari, Zeev.

Weissblum, W. E.

(with McFadden, J. A.) Higher-order properties of a stationary point process. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 413-431. (T. Kawata) 30 #642

(with Newman, D. J.) Expectations in certain reliability problems. *SIAM Rev.* 9 (1967), 744-747. (A. K. Gayen) 38 #3989

Weissenberger, Stein

Lyapunov design of time-shared sampled-data control systems. *Internat. J. Control* (1) 9 (1969), 205-212. (From the author's summary) 39 #3859

Piecewise-quadratic and piecewise-linear Lyapunov functions for discontinuous systems. *Internat. J. Control* (1) 10 (1969), 171-180. (A. Strauss) 39 #5188

Control synthesis for stability region improvement. *Internat J. Control* (1) 12 (1970), 489-496. (Author's summary) 42 #7331

Weissglas, Peter

(with Nagel, Bengt; Olsson, Per) Certain recurrence relations for Appell functions useful in the calculation of matrix elements in an angular momentum representation. *Ark. Fys.* 23 (1963), 137-143. (A. Erdélyi) 30 #284

Weissglass, Julian

(with Schneider, Hans) Group rings, semigroup rings and their radicals. *J. Algebra* 5 (1967), 1-15. (S. A. Amitsur) 35 #4317

Radicals of semigroup rings. *Glasgow Math. J.* 10 (1969), 85-93. (Norman Sexauer) 42 #394

Regularity of semigroup rings. *Proc. Amer. Math. Soc.* 25 (1970), 499-503. (W. E. Clark) 41 #1902

(with Putcha, Mohan S.) Semigroups satisfying variable identities. *Semigroup Forum* 3 (1971/72), *no.* 1, 64-67. (T. Tamura) 44 #6881

Weissinger, Johannes

Zur nichtlinearen Theorie der ungleichförmigen Umströmung von Profilen. (English and Russian summaries) *Z. Angew. Math. Mech.* 50 (1970), 337-346. (R. Nardini) 42 #2730

Weissman, I.

(with Mejzler, D.) On some results of N. V. Smirnov concerning limit distributions for variational series. *Ann. Math. Statist.* 40 (1969), 480-491. (J. Kiefer) 40 #6628

Weissner, Edward W.

(with Leadbetter, M. R.) On continuity and other analytic properties of stochastic process sample functions. *Proc. Amer. Math. Soc.* 22 (1969), 291-294. (D. W. Stroock) 39 #4921

Multitype branching processes in random environments. *J. Appl. Probability* 8 (1971), 17-31. (I. J. Good) 44 #3399

Weisz, P. H.

Canonical representation of a field theory of currents. *Phys. Rev.* (2) 185 (1969), 2015-2019. (Virendra Singh) 41 #3023

(with Macfarlane, A. J.; Sudbery, A.) Explicit representations of chiral invariant Lagrangian theories of hadron dynamics. *Proc. Roy. Soc. London Ser. A* 314 (1970), 217-250. (Gerald Rosen) 42 #7167

Weitsman, Allen

(with Edrei, Albert) Asymptotic behavior of meromorphic functions with extremal deficiencies. *Bull. Amer. Math. Soc.* 74 (1968), 140-144. (I. N. Baker) 36 #3989

Meromorphic functions with maximal deficiency sum and a conjecture of F. Nevanlinna. *Acta Math.* 123 (1969), 115-139. (L. R. Sons) 41 #480

Asymptotic behavior of meromorphic functions with extremal dificiencies. *Trans. Amer. Math. Soc.* 140 (1969), 333-352. (Fred Gross) 39 #2981

(with Drasin, David) The growth of the Nevanlinna proximity function and the logarithmic potential. *Indiana Univ. Math. J.* 20 (1970/71), 699-715. (D. F. Shea) 44 #433

A growth property of the Nevanlinna characteristic. *Proc. Amer. Math. Soc.* 26 (1970), 65-70. (N. Toda) 41 #5625

Weitzenkamp, Roger C.

(with Mientka, Walter E.) On f-plentiful numbers. *J. Combinatorial Theory* 7 (1969), 374-377. (Authors' introduction) 42 #3015

Weitzner, Harold

Green's function for the linearized one-dimensional Krook equation with electric forces. *Phys. Fluids* 6 (1963), 484-490. (J. K. Thurber) 33 #2340

Plasma oscillations and Landau damping. *Phys. Fluids* 6 (1963), 1123-1127. (S. A. Berger) 29 #6892

Exponential damping of collisionless plasma oscillations. *Comm. Pure Appl. Math.* 18 (1965), 307-311. (S. I. Pai) 31 #2946

Steady-state oscillations in a gas. *Rarefied Gas Dynamics, Vol. I. (Proc. Fourth Internat. Sympos., Univ. Toronto,* 1964*), pp.* 1-20. *Academic Press, New York,* 1966. (C. K. Chu) 34 #1015

Initial value-boundary value problem for the Bernstein modes. *Comm. Pure Appl. Math.* 22 (1969), 415-455. (S. A. Berger) 40 #3793

von Weizsäcker, Carl Friedrich

* Zum Weltbild der Physik. Zehnte Auflage. Unveränderter Nachdruck. *S. Hirzel Verlag, Stuttgart,* 1963. 378 *pp.* (F. Krafft) 30 #2997

Weksler, Szymon

Decomposition of the numbers $2/n$ into prime fractions in the arithmetic of ancient Egypt. (Polish. German summary) *Zeszyty Nauk. Uniw. Łódzk. Nauki Mat. Przyrod. Ser. II Zeszyt* 29 (1968), 103-116. (T. T. Tonkov) 39 #3947

A certain characterization of numeration by powers. (Polish) *Wiadom. Mat.* (2) 11, 5-6 (1969). (H. Hanani) 40 #2594

Welch, B. L.

(with Peers, H. W.) On formulae for confidence points based on integrals of weighted likelihoods. *J. Roy. Statist. Soc. Ser. B* 25 (1963), 318-329. (D. V. Lindley) 30 #3522

(with Johnson, N. L.) The distribution of the coefficient of variation: Comment on a criticism made by Koopmans, Owen and Rosenblatt. *Biometrika* 52 (1965), 303. (D. G. Kendall) 34 #8524

On comparisons between confidence point procedures in the case of a single parameter. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 1-8. (Author's summary) 32 #4779

Welch, John. N.

(with Taam, C. T.) Compact solutions of nonlinear differential equations in Banach spaces. *Michigan Math. J.* 13 (1966), 271-284. (Slavomír Burýšek) 33 #7665

(with Bogdanowicz, W. M.) Vectorial integration and extensions of vector valued volumes to measures of finite variation of q-power. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 87-93. (R. K. Goodrich) 39 #4350

(with Bogdanowicz, W. M.) On a linear operator connected with almost periodic solutions of linear differential equations in Banach spaces. *Math. Ann.* 172 (1967), 327-335. (C. Corduneanu) 35 #5711

(with Bogdanowicz, W. M.) Integration generated by orthogonal volumes and extensions of orthogonal volumes to orthogonal measures. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 401-407. (F. Cunningjam, Jr.) 37 #5351

(with Bogdanowicz, W. M.) Integration generated by projective volumes over Hilbert spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 49-57. (C. R. Putnam) 43 #7580

Welch, John T., Jr.

A mechanical analysis of the cyclic structure of undirected linear graphs. *J. Assoc. Comput. Mach.* 13 (1966), 205-210. (Author's summary) 34 #102

Welch, Lloyd R.

(See Good, I. J., 29 #5341 and Golomb, Solomon W., 39 #3906)

(with Terry, C. M.; Youngs, J. W. T.) The genus of K_n, $n = 12(2^m)$. *Bull. Amer. Math. Soc.* 71 (1965), 653-656. (J. B. Giever) 31 #4022a

(with Terry, C. M.; Youngs, J. W. T.) The genus of K_n, $n = 12s$. *Bull. Amer. Math. Soc.* 71 (1965), 657-660. (J. B. Giever) 31 #4022b

(with Terry, C. M.; Youngs, J. W. T.) The genus of K_{12s}. *J. Combinatorial Theory* 2 (1967), 43-60. (R. C. Read) 34 #6755

(with Golomb, Solomon W.) Algebraic coding and the Lee metric. *Error Correcting Codes (Proc. Sympos. Math. Res. Center, Madison, Wis.,* 1968*), pp.* 175-194. *John Wiley, New York,* 1968. (Authors' introduction) 38 #3074

(with Hoffman, Frederick) Totally variant sets in finite groups and vector spaces. *Canad. J. Math.* 20 (1968), 701-710. (T. R. Berger) 37 #301

(with Scholtz, Robert A.) Mechanization of codes with bounded synchronization delays. *IEEE Trans. Information Theory* IT-16 (1970), 438-446. (Authors' summary) 42 #7401

(with Terry, C. M.; Youngs, J. W. T.) Solution of the Heawood map-coloring problem--case 4. *J. Combinatorial Theory* 8 (1970), 170-174. (K. Wagner) 41 #3321

(with Golomb, Solomon W.) Perfect codes in the Lee metric and the packing of polyominoes. *SIAM J. Appl. Math.* 18 (1970), 302-317. (R. J. McEliece) 41 #1422

Welch, Peter D.

On a generalized $M/G/1$ queuing process in which the first customer of each busy period receives exceptional service. *Operations Res.* 12 (1964), 736-752. (D. G. Kendall) 31 #816

On the busy period of a facility which serves customers of several types. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 361-370. (J. F. C. Kingman) 33 #5008

Weldon, Edward J., Jr.

(with Burton, H. O.) Cyclic product codes. *IEEE Trans. Information Theory* IT-11 (1965), 433-439. (S. W. Golomb) 32 #7340

Difference-set cyclic codes. *Bell System Tech. J.* 45 (1966), 1045-1055. (H. F. Mattson, Jr.) 34 #1101

results on majority-logic decoding. *Error Correcting Codes (Proc. Sympos. Math. Res. Center, Madison, Wis.,* 1968*), pp.* 149-162. *John Wiley, New York,* 1968. (N. Zierler) 39 #2522

New generalizations of the Reed-Muller codes. II. Nonprimitive codes. *IEEE Trans. Information Theory* IT-14 (1968), 199-205. (G. M. Tenengol'c) 43 #1748

Euclidean geometry cyclic codes. *Combinatorial Mathematics and its Applications (Proc. Conf., Univ. North Carolina, Chapel Hill, N. C.,* 1967*), pp.* 377-387. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1969. (R. J. McEliece) 40 #5331

(with Chen, C. L.; Peterson, W. W.) Some results on quasi-cyclic codes. *Information and Control* 15 (1969), 407-423. (Authors' summary) 40 #3971

(with Lin, Shu) Further results on cyclic product codes. *IEEE Trans. Information Theory* IT-16 (1970), 453-459. (Authors' summary) 42 #7391

Well, K. H.

(with Miele, A.; Iyer, R. R.) Modified quasilinearization and optimal initial choice of the multipliers. II. Optimal control problems. *J. Optimization Theory Appl.* 6 (1970), 381-409. 43 #2834

Welland, Grant V.

Differentiability almost everywhere of functions of several variables. *Proc. Amer. Math. Soc.* 19 (1968), 130-134. (S. Marcus) 37 #1534

Fractional differentiation of functions with lacunary Fourier series. *Proc. Amer. Math. Soc.* 19 (1968), 135-141. (S. Marcus) 37 #1874

On the fractional differentiation of a function of several variables. *Trans. Amer. Math. Soc.* 132 (1968), 487-500. (W. A. Al-Salam) 37 #3288

Strong differentiation in L^p. (Spanish summary) *Rev. Acad. Ci. Madrid* 63 (1969), 379-390. (T. A. Botts) 40 #2805

(with Korányi, A.; Vági, Stephen) Remarks on the Cauchy integral and the conjugate function in generalized half-planes. *J. Math. Mech.* 19 (1969/70), 1069-1081. (K. T. Hahn) 42 #535

(with Ash, J. Marshall) Convergence, summability, and uniqueness of multiple trigonometric series. *Bull. Amer. Math. Soc.* 77 (1971), 123-127. (Yung-ming Chen) 43 #812

Welland, Robert R.

On Köthe spaces. *Trans. Amer. Math. Soc.* 112 (1964), 267-277. (A. C. Zaanen) 30 #2336

Inclusion relations among Orlicz spaces. *Proc. Amer. Math. Soc.* 17 (1966), 135-139. (H. Nakano) 32 #6205

(with DeVito, Carl) A characterization of absolute continuity. *J. Math. Anal. Appl.* 20 (1967), 258-261. (A. M. Bruckner) 36 #328

(with Goes, Sigrun) Some remarks on Köthe spaces. *Math. Ann.* 175 (1968), 127-131. (R. D. McWilliams) 36 #6919

Bernstein's theorem for Banach spaces. *Proc. Amer. Math. Soc.* 19 (1968), 789-792. (R. Bonic) 37 #1961

(with Goes, Sigrun) Compactness criteria for Köthe spaces. *Math. Ann.* 188 (1970), 251-269. (S. A. Naimpally) 43 #862

Weller, Glenn P.

Locally flat imbeddings of topological manifolds in codimension three. *Trans. Amer. Math. Soc.* 157 (1971), 161-178. (L. S. Husch) 43 #2719

Weller, Wolfgang

Zur Superfluidität eines Bose-Systems. *Z. Naturforsch.* 18a (1963), 79-85. (M. J. Stephen) 29 #6872

Welling, D.

(with Griffiths, D.) Meson coupling in a relativistic SU(6) scheme. *Phys. Rev. Lett.* 14 (1965), 874-877. (S. L. Glashow) 31 #3098

Wellner, Marcel

Improvement of the Born series at low energy. *Phys. Rev.* (2) 132 (1963), 1848-1853. (P. Singer) 32 #6902

Levinson's theorem (an elementary derivation). *Amer. J. Phys.* 32 (1964), 787-789. (R. Hwa) 32 #5084

(with Alexanian, Moorad) Field-theoretic approach to the ρ meson. *Phys. Rev.* (2) 137 (1965), B155-B163. 32 #5086

Self-energy loop of the charged vector meson. *Phys. Rev.* (2) 141 (1966), 1497-1498. (G. Feinberg) 33 #1065

Wellnitz, Karl

* Moderne Wahrscheinlichkeitsrechnung. *Friedr. Vieweg & Sohn, Braunschweig,* 1964. iv + 101 *pp.* (Bernard Harris) 31 #1692

Wells, Benjamin B., Jr.

Weak compactness of measures. *Proc. Amer. Math. Soc.* 20 (1969), 124-130. (W. D. L. Appling) 38 #6343

Uncomplemented function algebras. *Studia Math.* 32 (1969), 41-46. (E. Følner) 39 #3236

A random L^1 function with divergent Walsh series. *Proc. Amer. Math. Soc.* 24 (1970), 794-796. (F. P. Cass) 41 #5871

Sets of interpolation for multipliers. *Bull. Amer. Math. Soc.* 77 (1971), 220-222. (R. Larsen) 42 #4970

Interpolation in $C(\Omega)$. *Pacific J. Math.* 36 (1971), 833-838. (D. E. Wulbert) 43 #5294

Wells, Charles

(with Carlitz, L.) The number of solutions of a special system of equations in a finite field. *Acta Arith.* 12 (1966/67), 77-84. (John H. Hodges) 34 #4259

The number of solutions of a system of equations in a finite field. *Acta Arith.* 12 (1966/67), 421-424. (L. Carlitz) 35 #2868

Groups of permutation polynomials. *Monatsh. Math.* 71 (1967), 248-262. (L. Carlitz) 35 #5421

Generators for groups of permutation polynomials over finite fields. *Acta Sci. Math. (Szeged)* 29 (1968), 167-176. (R. J. McEliece) 38 #5903

A generalization of the regular representation of finite Abelian groups. *Monatsh. Math.* 72 (1968), 152-156. (P. Gräbe) 37 #4160

H-split translations of groups. *J. Algebra* 12 (1969), 195-206. (L. Dornhoff) 39 #296

The degrees of permutation polynomials over finite fields. *J. Combinatorial Theory* 7 (1969), 49-55. (R. J. McKliece) 39 #176

Automorphisms of group extensions. *Trans. Amer. Math. Soc.* 155 (1971), 189-194. (W. E. Deskins) 42 #7779

Wells, Charles H.

Minimum norm control of discrete systems. *IEEE Internat. Convention Record* 1967, *pt.* 3, 55-64. (Author's summary) 38 #4168

Wells, Daniel R.

Axially symmetric force-free plasmoids. *Phys. Fluids* 7 (1964), 826-832. (J. N. Kapur) 29 #5510

Wells, G. S.

Immersions of G-manifolds, G finite. *Bull. Amer. Math. So* 74 (1968), 130-132. (K. Aoki) 36 #3367

Isotopy classes of embeddings and homotopy. *Proc. Cambrid Philos. Soc.* 66 (1969), 21-26. (R. J. Milgram) 41 #4567

Wells, Jacqueline

(with Muskat, Joseph) On the number of solutions of certa trinomial congruences. *Math. Comp.* 19 (1965), 483-487. (W. H. Mills) 31 #4758

Wells, James H.

Multipliers of ideals in function algebras. *Duke Math. J.* 31 (1964), 703-709. (I. Glicksberg) 30 #2365

Restrictions of Fourier-Stieltjes transforms. *Proc. Amer. Math. Soc.* 15 (1964), 243-246. (G. Maltese) 29 #1499

Bounded continuous vector-valued functions on a locally compact space. *Michigan Math. J.* 12 (1965), 119-126. (I. Glicksberg) 31 #593

(with Kellogg, C. N.) Invariant subspaces. *Illinois J. Math.* 10 (1966), 508-516. (L. de Branges) 33 #582

(with Piranian, George; Shields, Allen L.) Bounded analyti functions and absolutely continuous measures. *Proc. Amer. Math. Soc.* 18 (1967), 818-826. (E. L. Stout) 35 #5911

(with Heard, E. A.) An interpolation problem for subalgebr of H^∞. *Pacific J. Math.* 28 (1969), 543-553. (E. J. Akutowicz) 39 #4681

On the zeros of functions with derivatives in H_1 and H_∞. *Canad. J. Math.* 22 (1970), 342-347. (S. Fisher) 41 #486

Some results concerning multipliers of H^p. *J. London Math. Soc.* (2) 2 (1970), 549-556. (K. V. Rajeswara Rao) 42 #7906

(with Hayden, T. L.) On the extension of Lipschitz-Hölder maps of order β. *J. Math. Anal. Appl.* 33 (1971), 627-640. (Ky Fan) 42 #6586

Wells, John C.

Differentiable functions on c_0. *Bull. Amer. Math. Soc.* 75 (1969), 117-118. (R. Bonic) 38 #2590

C^1 partitions of unity on nonseparable Hilbert space. *Bull Amer. Math. Soc.* 77 (1971), 804-807. (J. Eells) 43 #5560

Wells, Mark B.

The number of Latin squares of order eight. *J. Combinatori Theory* 3 (1967), 98-99. (A. Sade) 35 #5343

* Elements of combinatorial computing. *Pergamon Press, Oxfor New York-Toronto, Ont.,* 1971. xiv + 258 *pp.* (R. W. Hamming) 43 #2819

Wells, P.

(with Huntley, E.) The analysis of discrete time systems w deterministic inputs by the serial/matrix method. *Internat. J. Control* (1) 13 (1971), 113-129. (S. F. Moon) 43 #4504

Wells, R. O., Jr.

On the local holomorphic hull of a real submanifold in several complex variables. *Comm. Pure Appl. Math.* 19 (1966), 145-165. (M. Hervé) 33 #5948

Locally holomorphic sets. *J. Analyse Math.* 17 (1966), 337-345. (J. Kajiwara) 35 #5655

Holomorphic approximation on real-analytic submanifolds of a complex manifold. *Proc. Amer. Math. Soc.* 17 (1966), 1272-1275 (Joji Kajiwara) 34 #832

(with Nirenberg, Ricardo) Holomorphic approximation on real submanifolds of a complex manifold. *Bull. Amer. Math. Soc.* 73 (1967), 378-381. (J. Kajiwara) 35 #746

(See also Complex analysis, 38 #6095 and Complex analysis, 1969, 42 #6275)

Holomorphic hulls and holomorphic convexity. Complex Analy (Proc. Conf., Rice Univ., Houston, Tex, 1967). *Rice Univ. Studie* 54 (1968), *no.* 4, 75-84. (H. Kerner) 39 #3029

Holomorphic hulls and holomorphic convexity of differentiabl submanifolds. *Trans. Amer. Math. Soc.* 132 (1968), 245-262. (S. Hitotumatu) 36 #5392

Concerning the envelope of holomorphy of a compact differentiable submanifold of a complex manifold. *Ann. Scuola Norm. Sup. Pisa* (3) 23 (1969), 347-361. (S. Hitotumatu) 39 #7141

(with Bigolin, Bruno) Concerning the refined Chern classes of a holomorphic vector bundle. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 379-384. (W. Barth) 40 #7480

Compact real submanifolds of a complex manifold with nondegenerate holomorphic tangent bundles. *Math. Ann.* 179 (1969), 123-129. (S. Hitotumatu) 38 #6104

Real-analytic subvarieties and holomorphic approximation. *Math. Ann.* 179 (1969), 130-141. (J. Kajiwara) 39 #476 (with Harvey, Reese) Compact holomorphically convex subsets of a Stein manifold. *Trans. Amer. Math. Soc.* 136 (1969), 509-516. (B. Shiffman) 38 #3470

(with Nirenberg, Ricardo) Approximation theorems on differentiable submanifolds of a complex manifold. *Trans. Amer. Math. Soc.* 142 (1969), 15-35. (M. Hervé) 39 #7140

(with Hunt, L. R.) The envelope of holomorphy of a two-manifold in C^2. Complex Analysis (Proc. Conf., Rice Univ., Houston, Tex., 1969). *Rice Univ. Studies* 56 (1970), *no.* 2, 51-62 (1971). (S. Hitotumatu) 42 #6279

(with Harvey, F. Reese) Holomorphic approximation on totally real submanifolds of a complex manifold. *Bull. Amer. Math. Soc.* 77 (1971), 824-828. (J. P. Ferrier) 44 #6996

ells, Robert

(See Milnor, J., 29 #634)

Cobordism groups of immersions. *Topology* 5 (1966), 281-294. (R. K. Lashof) 33 #4946

Modifying intersections. *Illinois J. Math.* 11 (1967), 389-403. (F. Raymond) 36 #896

Free involutions of homotopy $S^l \times S^{l'}$s. *Illinois J. Math.* 15 (1971), 160-184. (R. De Sapio) 42 #6838

Some examples of free involutions on homotopy $S^1 \times S^{1'}$ s. *Illinois J. Math.* 15 (1971), 542-550. (L. Lininger) 44 #5980

ells, William R.

(with Kashiwagi, Yasutada) A time optimal control study of a second-order linear system with delay. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 644-655. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2405

(with Kashiwagi, Yasutada) Synthesis of a time-optimal control problem with delay. *IEEE Trans. Automatic Control* AC-14 (1969), 99-100. (Authors' summary) 40 #5307

elsch, John H.

(with Golub, Gene H.) Calculation of Gauss quadrature rules. *Math. Comp.* 23 (1969), 221-230; *addendum, ibid.* 23 (1969), *no.* 106, *loose microfiche suppl.* A1-A10. (F. Stenger) 39 #6513

elsh, Dominic J. A.

(with Hammersley, J. M.) First-passage percolation, subadditive processes, stochastic networks, and generalized renewal theory. *Proc. Internat. Res. Semin., Statist. Lab., Univ. California, Berkeley, Calif.*, 1963, *pp.* 61-110. *Springer-Verlag, New York,* 1965. (J. N. Kapur) 33 #6731

(with Morgan, R. W.) A two-dimensional Poisson growth process. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 497-504. (Authors' summary) 33 #1910

(with Bondy, J. A.) A note on the monomer dimer problem. *Proc. Cambridge Philos. Soc.* 62 (1966), 503-505. (D. W. Walkup) 34 #3958

On dependence in matroids. *Canad. Math. Bull.* 10 (1967), 599-603. (W. T. Tutte) 37 #1269

Some applications of a theorem of Rado. *Mathematika* 15 (1968), 199-203. (L. Mirsky) 39 #77

Kruskal's theorem for matroids. *Proc. Cambridge Philos. Soc.* 64 (1968), 3-4. (A. Lehman) 37 #2623

(with Harary, Frank) Matroids versus graphs. *The Many Facets of Graph Theory (Proc. Conf., Western Mich. Univ., Kalamazoo, Mich.,* 1968*), pp.* 155-170. *Springer, Berlin,* 1969. (E. Lawler) 41 #8267

Transversal theory and matroids. *Canad. J. Math.* 21 (1969), 1323-1330. (D. A. Higgs) 40 #5470

A bound for the number of matroids. *J. Combinatorial Theory* 6 (1969), 313-316. (N. Robertson) 39 #87

Euler and bipartite matroids. *J. Combinatorial Theory* 6 (1969), 375-377. (W. T. Tutte) 38 #5656

On the hyperplanes of a matroid. *Proc. Cambridge Philos. Soc.* 65 (1969), 11-18. (C. St. J. A. Mash-Williams) 38 #4340

Probability theory and its applications. *Mathematics Applied to Physics, pp.* 465-561. *Springer, New York,* 1970. (N. L. Johnson) 41 #4678

On matroid theorems of Edmonds and Rado. *J. London Math. Soc.* (2) 2 (1970), 251-256. (D. A. Higgs) 41 #3309

(with Piff, M. J.) On the vector representation of matroids. *J. London Math. Soc.* (2) 2 (1970), 284-288. (D. A. Higgs) 41 #3308

(with Manvel, B.; Stockmeyer, P. K.) On removing a point of a digraph. *Studia Sci. Math. Hungar.* 5 (1970), 299-301. (F. Harary) 44 #2668

(See also Combinatorial mathematics and its applications, 43 #3128)

Combinatorial problems in matroid theory. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford,* 1969*), pp.* 291-306. *Academic Press, London,* 1971. (From the author's introduction) 43 #4701

(with Piff, M. J.) The number of combinatorial geometries. *Bull. London Math. Soc.* 3 (1971), 55-56. (R. K. Guy) 44 #101

Generalized versions of Hall's theorem. *J. Combinatorial Theory Ser. B.* 10 (1971), 95-101. (A. W. Ingleton) 44 #2621

(with Bondy, J. A.) Some results on transversal matroids and constructions for identically self-dual matroids. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 435-451. (W. Dörfler) 44 #3899

Welsky, G. M. Adelson. See Adel′son-vel′skiĭ, G. M.

Welton, Theodore A.

(with Kronsbein, J.) Note on parametrization of the four-dimensional real symplectic group. *J. London Math. Soc.* 39 (1964), 291-295. (R. Hermann) 29 #190

Wempner, G. A.

Theory for moderately large deflections of thin sandwich shells. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 76-80. (Yi-Yuan Yu) 31 #4247

Wend, David V. V.

Branched regular curve families and finite asymptotic values. *Amer. J. Math.* 86 (1964), 493-520. (P. Porcelli) 29 #2404

Uniqueness of solutions of ordinary differential equations. *Amer. Math. Monthly* 74 (1967), 948-950. (L. D. Fountain) 36 #4062

Singularity-free regions for solutions of systems of nonlinear complex differential equations. *Proc. Amer. Math. Soc.* 18 (1967), 592-597. (T. Ura) 35 #3118

Existence and uniqueness of solutions of ordinary differential equations. *Proc. Amer. Math. Soc.* 23 (1969), 27-33. (L. D. Fountain) 39 #7185

(with Ryder, Gerald H.) Oscillation of solutions of certain ordinary differential equations of nth order. *Proc. Amer. Math. Soc.* 25 (1970), 463-469. (T. L. Sherman) 41 #5710

Wendel, James G.

Zero-free intervals of semi-stable Markov processes. *Math. Scand.* 14 (1964), 21-34. (H. Kesten) 30 #1550

(with Taylor, S. J.) The exact Hausdorff measure of the zero set of a stable process. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 6 (1966), 170-180. (C. Stone) 35 #1090

(with Robbins, H.; Siegmund, D.) The limiting distribution of the last time $s_n \geq n\varepsilon$. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1228-1230. (C. Stone) 39 #4946

Wendell Pedersen, Niels. See Pedersen, Niels Wendell.

Wendland, Wolfgang

* Lösung der ersten und zweiten Randwertaufgaben des Innen- und Aussengebietes für die Potentialgleichung im R_3 durch Randbelegungen. Berichte des Hahn-Meitner-Instituts, No. HMI-B 41. *Hahn-Meitner-Institut, Berlin,* 1965. v + 99 *pp.* (G. Schober) 38 #336

Die Methode der Randbelegungen bei der Lösung der ersten und zweiten Randwertaufgabe der Potentialgleichung für Ränder mit Kanten und Ecken. *Z. Angew. Math. Mech.* 45 (1965), T84-T87. (A. O. Garder, Jr.) 34 #2220

* (with Haack, W.) Systeme linearer partieller Differentialgleichungen. Mit einem Beitrag von M. Schneider. HMI-B-M 29. *Hanh-Meitner-Institut für Kernforschung Berlin, Berlin,* 1966. i + 171 *pp.* (E. Kreyszig) 34 #6295

(with Bruhn, Gerhard) Über die näherungsweise Lösung von linearen Funktionalgleichungen. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach,* 1965*), pp.* 136-164. *Birkhäuser, Basel,* 1967. (D. R. Arterburn) 37 #797

Die Fredholmsche Alternative für Operatoren, die bezüglich eines bilinearen Funktionals adjungiert sind. *Math. Z.* 101 (1967), 61-64. (B. Fishel) 36 #3162

Zur numerischen Behandlung der Randwertaufgaben für elliptische Systeme. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 187-207. *Birkhäuser, Basel,* 1968. (P. Laasonen) 43 #2860

Die Behandlung von Randwertaufgaben im R_3 mit Hilfe von Einfach- und Doppelschichtpotentialen. *Numer. Math.* 11 (1968), 380-404. (J. H. Bramble) 37 #7103

* (with Haack, Wolfgang) Vorlesungen über Partielle und Pfaffsche Differentialgleichungen. Mathematische Reihe, Band 39. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 555 *pp.* (M. Pinl) 42 #4873

Über potentialtheoretische Randwertaufgaben in einem zusammengesetzten Gebiet mit Übergangsbedingung und nichtglatten Rändern. *Methoden und Verfahren der Mathematischen Physik, Band 2 (Bericht über eine Tagung, Oberwolfach,* 1969*), pp.* 125-149. *Bibliographisches Institut, Mannheim,* 1969. (A. O. Garder, Jr.) 41 #7141

(with Simon, Udo) Zur Indexmethode in der Differentialgeometrie im Großen. *Math. Z.* 116 (1970), 242-246. (C.-C. Hsiung) 42 #8427

Wendler, Klaus

Quasidefinite Matrizen. *Arch. Math. (Basel)* 20 (1969), 515-522. (A. Ben-Israel) 41 #1761

* Hauptaustauschschritte (principal pivoting). Lecture Notes in Operations Research and Mathematical Systems, Vol. 45. *Springer-Verlag, Berlin-New York,* 1971. ii + 64 *pp.* (R. W. Cottle) 43 #8368

Die ε-Störung linearer und quadratischer Optimierungsaufgaben und ihre Anwendung auf das Hildreth-Verfahren. (English summary) *Unternehmensforschung* 15 (1971), 1-14. (Author's summary) 43 #1647

Wendroff, Burton

(with Lax, Peter D.) Difference schemes for hyperbolic equations with high order of accuracy. *Comm. Pure Appl. Math.* 17 (1964), 381-398. (H.-O. Kreiss) 30 #722

Bounds for eigenvalues of some differential operators by the Rayleigh-Ritz method. *Math. Comp.* 19 (1965), 218-224. (H. F. Weinberger) 31 #4169

* Theoretical numerical analysis. *Academic Press, New York-London,* 1966. xi + 239 *pp.* (D. J. Evans) 33 #5080

(with Birkhoff, Garrett; de Boor, C.; Swartz, B.) Rayleigh-Ritz approximation by piecewise cubic polynomials. *SIAM J. Numer. Anal.* 3 (1966), 188-203. (C. W. Clenshaw) 34 #3773

Well-posed problems and stable difference operators. *SIAM J. Numer. Anal.* 5 (1968), 71-82. (W. G. Strang) 36 #6159

(with Swartz, Blair) Generalized finite-difference schemes. *Math. Comp.* 23 (1969), 37-49. (J. Legras) 39 #1125

Weneser, J.

(with Unna, I.) The number problem in Bardeen-Cooper-Schrieffer and random-phase-approximation nuclear calculations. *Phys. Rev.* (2) 137 (1965), B1455-B1465. (Y. Nogami) 32 #3662

Weng, Teng-shan

(with Kounias, Eustratios G.) An inequality and almost sure convergence. *Ann. Math. Statist.* 40 (1969), 1091-1093. (R. Fischler) 39 #6370

Wenger, Daniel L.

Canonical root vectors of SU_n. *J. Mathematical Phys.* 8 (1967), 131-135. (Author's summary) 34 #5974

Representation functions of the group of motions of Clifford space. *J. Mathematical Phys.* 8 (1967), 135-140. (Author's summary) 34 #5975

Wenger, Ronald

Some semigroups having quasi-Frobenius algebras. I. *Proc. London Math. Soc.* (3) 18 (1968), 484-494. (R. J. Warne) 37 #4189

Some semigroups having quasi-Frobenius algebras. II. *Canad. J. Math.* 21 (1969), 615-624. (R. J. Warne) 39 #5727

Self-injective semigroup rings for finite inverse semigroups. *Proc. Amer. Math. Soc.* 20 (1969), 213-216. (W. E. Clark) 38 #1192

Wen Guo-chun. See Wen Kuo-ch'un.

Wen Huan-hai

A remark on the article of Ou Yang-liang: "Two comments on the Dirichlet problem for equations of hyperbolic type". (Chinese) *Shuxue Jinzhan* 8 (1965), 334. (Editors) 38 #2445

Wenjen, Chien

Realcompact spaces. *Portugal. Math.* 25 (1966), 135-139. (W. W. Comfort) 37 #885

Rings of generalized continuous functions. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 31-40. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (H. S. Bear) 37 #4588

Concerning paracompact spaces. *Proc. Japan Acad.* 43 (1967), 121-124. (C. R. Borges) 35 #7296

A remark on a problem of M. A. Naimark. *Proc. Japan Acad.* 44 (1968), 651-655. (J. Kist) 38 #5011

Generalizations of the Stone-Weierstrass approximation theorem. *Proc. Japan Acad.* 44 (1968), 928-932. (A. W. Hager) 40 #7821

On H-closedness and the Wallman H-closed extensions. I, II, II. *Proc. Japan Acad.* 46 (1970), 1102-1106; *ibid.* 47 (1971), 31-35; *corrected version, ibid.* 47 (1971), 388-393. (Jack R. Porter) 44 #3291

Wen Kuo-ch'un

(with Li Chung) On the Cauchy formula for elliptic systems of linear partial differential equations of the first order. *Acta Math. Sinica* 14 (1964), 23-32 *(Chinese); translated as Chinese Math.* 5 (1964), 25-35. (L. Bers) 29 #2405

(with Li Chung) On the Riemann-Hilbert boundary value problem for elliptic systems of linear partial differential equations of the first order. *Acta Math. Sinica* 15 (1965), 599-613 *(Chinese); translated as Chinese Math. -Acta* 7 (1965), 323-338. (R. C. MacCamy) 33 #6145

(with Li Chung) The number of solutions of generalized Riemann-Hilbert boundary value problems. *Acta Math. Sinica* 15 (1965), 765-774 *(Chinese); translated as Chinese Math. -Acta* 7 (1965), 497-508. (J. F. Heyda) 33 #5911

Wenner, B. R.

Dimension on boundaries of ε-spheres. *Pacific J. Math.* 27 (1968), 201-210. (Anne K. Steiner) 38 #2735

Sums of finite-dimensional spaces. *Bull. Austral. Math. Soc.* 1 (1969), 357-361. (E. Nunnally) 41 #6185

Remetrization in strongly countable-dimensional spaces. *Canad. J. Math.* 21 (1969), 748-750. (K. Nagami) 39 #3453

(with Vaughan, J. E.) Note on a theorem of J. Nagata. *Compositio Math.* 21 (1969), 4-6. (K. Nagami) 39 #4819

Extending maps and dimension theory. *Duke Math. J.* 37 (1970), 627-631. (V. J. Mancuso) 42 #3765

Dimension-theoretic properties of completions. *Proc. Amer. Math. Soc.* 28 (1971), 590-594. (K. Nagami) 43 #1151

Wente, Henry C.

An existence theorem for surfaces of constant mean curvatur *J. Math. Anal. Appl.* 26 (1969), 318-344. (R. Osserman) 39 #478

An existence theorem for surfaces of constant mean curvatur *Bull. Amer. Math. Soc.* 77 (1971), 200-202. (R. Osserman) 42 #3

A general existence theorem for surfaces of constant mean curvature. *Math. Z.* 120 (1971), 277-288. (W. F. Pohl) 43 #801

Wentzel, Gregor

Symmetry breaking in the static strong-coupling theory. *Helv. Phys. Acta* 38 (1965), 65-72. (Y. Ne'eman) 31 #6591

Wentzel, J. S. See Ventcel', E. S.

Wentzell, R. A.

(with Blackwell, J. H.) The effect of finite conductivity on gravity waves in a horizontal magnetic field. *Canad. J. Phys.* 43 (1965), 645-652. (S. Gartenhaus) 31 #1076

Torsional oscillations of a fluid sphere with a rigid bound in a uniform magnetic field. *J. Fluid Mech.* 24 (1966), 275-284. (K. Stewartson) 33 #964

Wenzel, Günter H.

Note on a subdirect representation of universal algebras. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 329-333. (F. M. Sioson) 36 #1378

On Marczewski's six-tuple of constants in finite universal algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 759-764. (F. M. Sioson) 37 #1296

(with Grätzer, G.) On the concept of congruence relation in partial algebras. *Math. Scand.* 20 (1967), 275-280. (B. H. Neumann) 38 #5688

Konstanten in endlichen, freien universellen Algebren. *Math Z.* 102 (1967), 205-215. (G. Bruns) 38 #102

Note on G. Whaples' paper "Algebraic extensions of arbitrary fields". *Duke Math. J.* 35 (1968), 47. (G. Whaples) 36 #3761

Automorphism groups of unary algebras on groups. *Canad. J. Math.* 21 (1969), 1165-1171. (M. Gould) 42 #174

Subdirect irreducibility and equational compactness in unary algebras $\langle A;f\rangle$. *Arch. Math. (Basel)* 21 (1970), 256-264. (A. Yaqub) 42 #1746

Extensions of congruence relations on infinitary partial algebras. A problem of G. Grätzer. *Fund. Math.* 67 (1970), 163-169. (E. T. Schmidt) 42 #4468

(with Binz, E.; Neukirch, J.) A subgroup theorem for free products of pro-finite groups. *J. Algebra* 19 (1971), 104-109. (L. Ribes) 43 #6318

On $(\mathfrak{S}, \mathfrak{A}, \mathfrak{m})$-atomic compact relational systems. *Math. Ann.* 194 (1971), 12-18. (B. Węglorz) 44 #6473

Wenzel, Horst

Funktionentheoretische Behandlung von Randwertaufgaben bei partiellen linearen Differentialgleichungen vierter Ordnung. (English and Russian summaries) *Z. Angew. Math. Mech.* 44 (1964), 169-182. (L. Bragg) 30 #3610

Wergeland, Harald

Photon emission from a given current. *Norske Vid. Selsk. Forh. (Trondheim)* 37 (1964), 69-75. (H. Araki) 29 #6844

On an alternative to the Wiener Kintchine representation of a stationary stochastic process. *Norske Vid. Selsk. Forh. (Trondheim)* 39 (1966), 109-112. (L. H. Koopmans) 37 #6095

(with Kac, M.) Autocorrelation function of some 'linear' stationary stochastic processes. *Norske Vid. Selsk. Forh. (Trondheim)* 41 (1968), 48-50. (H. P. McKean, Jr.) 39 #2208

Werle, J.

A simple representation for relativistic many-particle systems. *Nuclear Phys.* 44 (1963), 579-587. (PA 66 #18748) #32 #8998

Relativistic invariance in multiparticle reactions. *Nuclear Phys.* 57 (1964), 245-254. (P. W. Higgs) 31 #3039

(with Szymacha, A.) The problem of dynamical groups in quantum mechanics. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Math. Astronom. Phys.* 14 (1966), 325-330. (N. Mukunda) 34 #2269

Wermer, John

Maximal ideal spaces. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 426-434. *Inst. Mirrag-Leffler, Djursholm,* 1963. (Editors) 31 #629

* Seminar über Funktionen-Algebren. Winter-Semester 1963/64. Lecture Notes in Mathematics 1. *Springer-Verlag, Berlin-Göttingen-Heidelberg,* 1964. iv + 30 *pp.* (R. Arens) 35 #5947

(with Glicksberg, I.) Errata: Remark on "Measures orthogonal to a Dirichlet algebra". *Duke Math. J.* 31 (1964), 717. (Editors) 29 #5124

Approximation on a disk. *Math. Ann.* 155 (1964), 331-333. (E. A. Bishop) 29 #2670

(with Browder, A.) A method for constructing Dirichlet algebras. *Proc. Amer. Math. Soc.* 15 (1964), 546-552. (R. Arens) 29 #2669

Polynomially convex disks. *Math. Ann.* 158 (1965), 6-10. (H. Rossi) 30 #5158

Dirichlet algebras. *Contemporary Problems in Theory Anal. Functions (Internat. Conf., Erevan, 1965) (Russian), pp.* 300-304. *Izdat. "Nauka", Moscow,* 1966. (R. B. Burckel) 34 #6559

On two theorems of classical analysis. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 84-87. *Scott-Foresman, Chicago, Ill,* 1966. (A. Mallios) 35 #2154

Bounded point derivations on certain Banach algebras. *J. Functional Analysis* 1 (1967), 28-36. (R. B. Burckel) 35 #5948

(with O'Neill, B. V., Jr.) Parts as finite-sheeted coverings of the disk. *Amer. J. Math.* 90 (1968), 98-107. (H. S. Bear) 36 #5700

(with Hörmander, L.) Uniform approximation on compact sets in C^n. *Math. Scand.* 23 (1968), 5-21 (1969). (F. T. Birtel) 40 #7484

Banach algebras and uniform approximation. *Lectures in Modern Analysis and Applications. I, pp.* 30-43. *Springer, Berlin,* 1969. (B. M. Weinstock) 39 #7441

Polynomial approximation. *Proceedings of the Fifteenth Scandinavian Congress (Oslo,* 1968*), Lecture Notes in Mathematics, Vol.* 118, *pp.* 133-162. *Springer, Berlin,* 1970. (J. P. Ferrier) 41 #7441

Werner, Christian

* Zur Geometrie von Verkehrsnetzen. Die Beziehung zwischen räumlicher Netzgestaltung und Wirtschaftlichkeit. Abhandlungen des 1. Geographischen Instituts der Freien Universität Berlin, Band 10. *Dietrich Reimer Verlag, Berlin,* 1966. 136 *pp.* 33 #3779

Werner, E.

(with Müller, D.) Zur Verwendbarkeit separabler Potentiale in der Kernphysik. *Z. Physik* 186 (1965), 299-304. (G. H. Derrick) 32 #3660

Werner, G.

Un compilateur universel. *Quatrième Congr. de Calcul et de Traitement de l'Information AFIRO, pp.* 163-170. *Dunod, Paris,* 1965. (M. A. Harrison) 31 #6740

Werner, H. K. E.

(with Collatz, L.) Anfangswertprobleme der gewöhnlichen Differentialgleichungen in funktionalanalytischer Behandlung. *Math.-Phys. Semesterber.* 9 (1962/63), 22-40. (Editors) 31 #417

Eigenwerttheorie und rationale Tschebyscheff-Approximation. *Z. Angew. Math. Mech.* 43 (1963), *suppl.,* T35-T37. (G. Meinardus) 33 #4542

On the local behavior of the rational Tschebyscheff operator. *Bull. Amer. Math. Soc.* 70 (1964), 554-555. (T. J. Rivlin) 29 #6232

On the rational Tschebyscheff operator. *Math. Z.* 86 (1964), 317-326. (R. O'Neil) 31 #5022

Zur einheitlichen Behandlung von Tschebyscheff- und $L\gamma$-Approximation mit rationalen Funktionen. *Z. Angew. Math. Mech.* 45 (1965), 507-511. (G. Meinardus) 34 #6399

* Vorlesung über Approximationstheorie. Lecture Notes in Mathematics, 14. *Springer-Verlag, Berlin-New York,* 1966. iv + 196 *pp.* (John Todd) 33 #6213

Ein Auswahlkriterium für diskrete *T*-Approximation mit rationalen Funktionen konstanten Zähler. *Z. Angew. Math. Mech.* 46 (1966), T87-T89. (John Todd) 36 #4223

Die Bedeutung der Normalität bei rationaler Tschebyscheff-Approximation. (English summary) *Computing (Arch. Elektron. Rechnen)* 2 (1967), 34-52. (E. W. Cheney) 35 #3337

Diskretisierung bei Tschebyscheff-Approximation mit verallgemeinerten rationalen Funktionen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach,* 1966*), pp.* 381-391. *Birkhäuser, Basel,* 1968. (G. Meinardus) 43 #5216

Der Existenzsatz für das Tschebyscheffsche Approximationsproblem mit Exponentialsummen. *Funktionalanalytische Methoden der numerischen Mathematik (Vortragsauszüge der Tagung, Oberwolfach,* 1967*), pp.* 133-143. *Birkhäuser, Basel,* 1969. (P. D. Morris) 40 #7689

Starting procedures for the iterative calculation of rational Tschebyscheff approximations. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol.* 1*: Mathematics, Software, pp.* 106-110. *North-Holland, Amsterdam,* 1969. 40 #8225

(with Braess, D.) Über den Zusammenhang von Interpolation und diskreter *T*-Approximation mit rationalen Funktionen. *Numer. Math.* 13 (1969), 112-128. (W. J. Kotzé) 44 #4436

Tschebyscheff-approximation with sums of exponentials. *Approximation Theory (Proc. Sympos., Lancaster,* 1969*), pp.* 109-136. *Academic Press, London,* 1970. (F. Deutsch) 42 #3479

*Praktische Mathematik. I: Methoden der linearen Algebra. Vorlesung gehalten im Wintersemester 1968/69. Nach einem von R. Schaback angefertigten Skriptum, herausgegeben mit Unterstützung von R. Runge und U. Ebert. Mathematica Scripta, 1. *Springer-Verlag, Berlin-New York,* 1970. x + 275 *pp.* (A. S. Householder) 44 #4887

Werner, Heinrich

Eine Charakterisierung funktional vollständiger Algebren. *Arch. Math. (Basel)* 21 (1970), 381-385. (I. Sussman) 42 #4469

(with Wille, Rudolf) Charakterisierungen der primitiven Klassen arithmetischer Ringe. *Math. Z.* 115 (1970), 197-200. (A. Rosenberg) 42 #318

Produkte von Kongruenzklassengeometrien universeller Algebren. *Math. Z.* 121 (1971), 111-140. (I. Gy. Maurer) 43 #7396

Werner, J.

Einschliessungssätze bei nichtlinearen gewöhnlichen Randwertaufgaben und erzwungenen Schwingungen. *Numer. Math.* 13 (1969), 24-38. (G. H. Meyer) 40 #453

Verschärfungen zweier Sätze von Zlámal. *Z. Angew. Math. Mech.* 49 (1969), 185-186. (M. Zlámal) 39 #5886

Einschließungssätze für periodische Lösungen der Liénardschen Differentialgleichung. (English summary) *Computing (Arch. Elektron. Rechnen)* 5 (1970), 246-252. (J. R. Cannon) 42 #2110

Die Existenz periodischer Lösungen gewisser nichtlinearer Differentialgleichungen. *Z. Angew. Math. Mech.* 51 (1971), 236-237. (E. Baiada) 44 #4294

Werner, John

(See Dobrzycki, Jerzy, 42 #7465)

Werner, Peter

Elektromagnetische Schwingungen in nichthomogenen Medien. *Z. Angew. Math. Mech.* 43 (1963), *suppl.,* T37-T40. (C. H. Wilcox) 32 #8691

Elektromagnetische Dipolfelder in nichthomogenen Medien. *Arch. Rational Mech. Anal.* 16 (1964), 1-33. (L. Knopoff) 31 #6518

Über die Randwertprobleme der Helmholtzschen Schwingungsgleichung. *Math. Z.* 85 (1964), 226-240. (R. A. Ross) 29 #6170

(with Brakhage, Helmut) Über das Dirichletsche Aussenraumproblem für die Helmholtzsche Schwingungsgleichung. *Arch. Math.* 16 (1965), 325-239. (R. A. Ross) 32 #7930

Randwertprobleme für die zeitunabhängigen Maxwellschen Gleichungen mit variablen Koeffizienten. *Arch. Rational Mech. Anal.* 18 (1965), 167-195. (R. A. Ross) 30 #3298

(with Greenspan, Donald) A numerical method for the exterior Dirichlet problem for the reduced wave equation. *Arch. Rational Mech. Anal.* 23 (1966), 288-316. (P. Laasonen) 38 #6777

On an integral equation in electromagnetic diffraction theory. *J. Math. Anal. Appl.* 14 (1966), 445-462. (E. Ar) 33 #534

(with Kussmaul, R.) Fehlerabschätzungen für ein numerisches Verfahren zur Auflösung linearer Integralgleichungen mit schwachsingulären Kernen. (English summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 22-46. (I. Stakgold) 38 #5411

Ein Grenzübergang in der Theorie akustischer Wellenfelder. *Arch. Rational Mech. Anal.* 33 (1969), 192-218. (S. Kaliski) 40 #5184

Bemerkungen zur Theorie der L_p-Räume. *J. Reine Angew. Math.* 239/240 (1969), 401-434. (E. Berkson) 42 #3562

Eine Menge zweiter Kategorie vom Maß 0. *Praxis Math.* 11 (1969), 33-40. (J. C. Oxtoby) 40 #6485

A distribution-theoretical approach to certain Lebesgue and Sobolev spaces. *J. Math. Anal. Appl.* 29 (1970), 18-78. (R. D. Moyer) 41 #813

Werner, Ronald A.

(with Criz, Jose B., Jr.) Feedback control which preserves optimality for systems with unknown parameters. *IEEE Trans. Automatic Control* AC-13 (1968), 621-629. (Authors' summary) 42 #9022

Werner, W.

(with Albrecht, R.) Error analysis of a statistical decision method. *IEEE Trans. Information Theory* IT-10 (1964), 34-38. (W. L. Root) 30 #1865

(with Albrecht, R.) Ein Verfahren zur Identifizierung von Zeichen, deren Wiedergabe stationären statistischen Störungen unterworfen ist. (English summary) *Computing (Arch. Elektron. Rechnen)* 1 (1966), 1-7. (J. Wolfowitz) 32 #9118

Werner, W. L.

A double-centralizer theorem for simple associative algebras. *Canad. J. Math.* 21 (1969), 477-478. (Y. Utumi) 38 #5845

Werner, Wolfgang

Numerical solution of systems of quasilinear hyperbolic differential equations by means of the method of nebencharacteristics in combination with extrapolation methods. *Numer. Math.* 11 (1968), 151-169. (W. G. Strang) 36 #6164

Solution of elliptic eigenvalue problems by calculating a "separable" solution of a dynamic problem. *Conf. on Numerical Solution of Differential Equations (Dundee,* 1969*), pp.* 267-275. *Springer, Berlin,* 1969. (D. Greenspan) 42 #2694

Werner Schuster, Hans. See Schuster, Hans Werner.

Wernick, Robert J.

Parametrized games and the eigenproblem. *Linear Algebra and Appl.* 3 (1970), 311-346. (W. F. Tyndall) 42 #2814

de Werra, Dominique

On some combinatorial problems arising in scheduling. (French summary) *CORS J.* 8 (1970), 165-175. (C. Berge) 43 #1878

Construction of school timetables by flow methods. (French summary) *INFOR—Canad. J. Operational Res. and Information Processing* 9 (1971), 12-22. (W.-K. Chen) 44 #1418

(with Florian, Michael; Rossin-Arthiat, Maurice) A property of minimum concave cost flows in capacitated networks. (French summary) *INFOR—Canad. J. Operational Res. and Information Processing* 9 (1971), 293-304. (W.-K. Chen) 44 #6404

Wersan, S. J.

(with Ben-Israel, A.) An elimination method for computing the generalized inverse of an arbitrary complex matrix. *J. Assoc. Comput. Mach.* 10 (1963), 532-537. (T. N. E. Greville) 31 #5318

Werthamer, N. R.

(with Anderson, P. W.; Luttinger, J. M.) An additional equation in the phenomenology of superconductivity: Resistive effects. *Phys. Rev.* (2) 138 (1965), A1157-A1159. (Peter Fulde) 32 #7094

(with Fredkin, D. R.) Towards a quantum many-body theory of lattice dynamics. I. Time-dependent Hartree approximation. *Phys. Rev.* (2) 138 (1965), A1527-A1536. (H. B. Rosenstock) 32 #8946

Wertheim, M. S.

New model for classical fluids. I. *J. Chem. Phys.* 43 (1965), 1370-1380. (H. L. Frisch) 32 #2150

Wesley, James Paul

Causal quantum mechanics with phase and particle velocities equal. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 989-1003. (B. d'Espagnat) 33 #2136

Wesley, Richard Hamming. See Hamming, R. W.

Wesołowski, Zbigniew

Scalar invariants of orthogonal transformation of asymmetric matrices. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 905-918. (G. F. Smith) 31 #4215

Stability of a full elastic sphere uniformly loaded on the surface. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 1131-1151. (R. L. Fosdick) 32 #3360

On the couple stresses in an elastic continuum. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 219-232. (C. Truesdell) 32 #6745

Deformation of surface elements and linear elements in continuum mechanics. (Polish. Russian and English summaries) *Zastos. Mat.* 8 (1966), 335-345. (S. J. Bezuszka) 34 #996

Wess, J. E.

(with Thirring, Walter E.) Solution of a field theoretical model in one space-one time dimension. *Ann. Physics* 27 (1964), 331-337. (G. F. Dell'Antonio) 32 #5136

Meson-baryon scattering with SU(3) invariant interactions. *Z. Physik* 182 (1964), 64-75. (K. T. Mahanthappa) 32 #811

(with Fulton, T.) Symmetry group containing Lorentz invariance and unitary spin. *Phys. Lett.* 14 (1965), 57-60. (B. Kursunoglu) 32 #5213

(with Fulton, T.) Mass relations and the "super-Lorentz group" ℒ. *Phys. Lett.* 14 (1965), 334-336. (B. Kursunoglu) 32 #5214

Lorentz-covariant bilinear functionals. *Lectures in Theoretical Physics. Vol. XB: High Energy Physics and Fundamental Particles (Proceedings Tenth Boulder Summer Institute for Theoretical Physics, Univ. Colorado, Boulder, Colo., 1967)*, pp. 325-338. *Gordon and Breach, New York,* 1968. (From the author's introduction) 39 #1179

Wessel, Walter

Über eine Klasse paarer Graphen. I. Beweis einer Vermutung von Erdős, Hajnal und Moon. *Wiss. Z. Techn. Hochsch. Ilmenau* 12 (1966), 253-256. (J. W. Moon) 35 #1509

Über eine Klasse paarer Graphen. II. Bestimmung der Minimalgraphen. *Wiss. Z. Techn. Hochsch. Ilmenau* 13 (1967), 423-426. (J. W. Moon) 39 #4032b

Eine Methode zur Konstruktion von kanten-*p*-kritischen Graphen. *Beiträge zur Graphentheorie (Kolloquium, Manebach, 1967)*, pp. 207-210. *Teubner, Leipzig,* 1968. (D. W. Walkup) 39 #4044

Über die Vereinigung von planaren Graphen. *Wiss. Z. Techn. Hochsch. Ilmenau* 15 (1969), *Heft* 4/5, 143-147. (L. W. Beineke) 42 #7564

Kanten-kritische Graphen mit der Zusammenhangszahl 2. (English summary) *Manuscripta Math.* 2 (1970), 309-334. (Author's summary) 42 #124

Wessel, Walter

On the theory of the electron. *Fortschr. Physik* 12 (1964), 409-440. (F. Rohrlich) 31 #3048

Wessels, J.

Stochastic programming. *Statistica Neerlandica* 21 (1967), 39-53. (K. Ritter) 35 #7692

(with Peletier, L. A.) On Sobolev's first embedding theorem. *J. Math. Anal. Appl.* 23 (1968), 614-624. (D. Pascali) 37 #6746

Wessner, John

Binomial sums of Fibonacci powers. *Fibonacci Quart.* 4 (1966), 355-358. (J. Riordan) 34 #7394

Wesson, James R.

The construction of projective planes from generalized ternary rings. *Amer. Math. Monthly* 73 (1966), 36-40. (A. Cronheim) 33 #3186

West, Alan

The projection of infinitesimal connections. *J. London Math Soc.* 40 (1965), 551-564. (T. J. Willmore) 31 #2686

West, D. C.

A remark on transitivity in bundles. *Proc. Amer. Math. Soc.* 18 (1967), 885-888. (E. H. Brown) 35 #6145

West, Eric N.

* (with Zyskind, G.; Kempthorne, O.; Martin, F. B.; Carney, E. J.) Linear models and analysis of variance research procedure ARL 68-0119. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1968. iv + 180 *pp.* (M. J. Karson) 38 #6690

West, Geoffrey B.

Scattering from Coulomo-like potentials without divergences of cutoffs. I. Formalism: Generalized Lippmann-Schwinger equations. *J. Mathematical Phys.* 8 (1967), 942-953. (V. de Alfaro) 36 #1161

Construction of Veneziano-like formulas from superconvergenc *Phys. Rev.* (2) 185 (1969), 1927-1928. (J. T. Cushing) 41 #1318

West, H. H.

(with McGuire, M. L.) Dynamic programming approach to optim feedback-feedforward controller design. *J. Engrg. Math.* 4 (1970), 187-193. (Authors' summary) 42 #2843

West, James E.

Fixed point sets of transformation groups on separable infinite-dimensional Fréchet spaces. *Proc. Conf. on Transformati Groups (New Orleans, La., 1967)*, pp. 446-450. *Springer, New York,* 1968. (D. Burghelea) 40 #2041

Extending certain transformation group actions in separable, infinite-dimensional Frechet spaces and the Hilbert cube. *Bull. Amer. Math. Soc.* 74 (1968), 1015-1019. (A. Pełczyński) 38 #1510

Approximating homotopies by isotopies in Fréchet manifolds. *Bull. Amer. Math. Soc.* 75 (1969), 1254-1257. (R. Bonic) 40 #2042

(with Anderson, R. D.; Henderson, David W.) Negligible subsets of infinite-dimensional manifolds. *Compositio Math.* 21 (1969 143-150. (J. Eells) 39 #7630

The diffeomorphic excision of closed local compacta from infinite-dimensional Hilbert manifolds. *Compositio Math.* 21 (1969 271-291. (N. H. Kuiper) 41 #1076

Fixed-point sets of transformation groups on infinite-product spaces. *Proc. Amer. Math. Soc.* 21 (1969), 575-582. (R. W. Bagley 39 #945

Factoring the Hilbert cube. *Bull. Amer. Math. Soc.* 76 (1970), 116-120. (R. Ouzilou) 40 #4978

(with Henderson, David W.) Triangulated infinite-dimensional manifolds. *Bull. Amer. Math. Soc.* 76 (1970), 655-660. (D. E. Sanderson) 41 #2714; erratum, 41, p. 1966

The ambient homeomorphy of an incomplete subspace of infinite-dimensional Hilbert spaces. *Pacific J. Math.* 34 (1970), 257-267. (D. Burghelea) 43 #2748

Infinite products which are Hilbert cubes. *Trans. Amer. Math. Soc.* 150 (1970), 1-25. (D. E. Sanderson) 42 #1055

Mapping cylinders of Hilbert cube factors. *General Topology and Appl.* 1 (1971), *no.* 2, 111-125. (K. Sieklucki) 44 #5984

West, M. T.

(with Plemmons, R. J.) On the semigroup of binary relations. *Pacific J. Math.* 35 (1970), 743-753. (B. M. Schein (Šaĭn)) 43 #4941

West, Robert W.

On representability of contravariant functors over non-connected *CW* complexes. *Illinois J. Math.* 11 (1967), 64-70. (E. H. Brown 34 #5088

Representability of Milnor's functor k_{PL}. *J. Math. Mech.* 17 (1967), 299-314. (Edgar H. Brown, Jr.) 35 #7334

Weak *H*-spaces. *J. Math. Mech.* 17 (1967), 421-431. (Edgar H. Brown, Jr.) 35 #7335

Representability of products in a cohomology theory. *J. Math. Mech.* 17 (1967/68), 803-822. (Edgar H. Brown, Jr.) 36 #3340

A short proof of the existence of additive inverses of topological microbundles. *Proc. Cambridge Philos. Soc.* 63 (1967), 587-589. (J. F. Adams) 35 #3666

On a lemma of Sugawara. *Amer. Math. Monthly* 75 (1968), 640-642. (C. M. Naylor) 38 #1676

Some exact sequences of spaces. *Portugal. Math.* 27 (1968), 99-117. (J. F. Adams) 41 #6216

Uniqueness of multiplicative structure in complex *K*-theory. *J. Math. Mech.* 19 (1969/70), 911-922. (J. A. Schafer) 41 #1043

Some cohomotopy of projective space. *Indiana Univ. Math. J.* 20 (1970/71), 807-827. (M. Mimura) 42 #5262

Weak *H*-rings. *Indiana Univ. Math. J.* 20 (1970/71), 1021-1026. (R. M. F. Moss) 43 #4035

H-spaces which are co-*H*-spaces. *Proc. Amer. Math. Soc.* 31 (1972), 580-582. (C. R. Curjel) 44 #2230

West, T. T.

(with Olagunju, P. A.) The spectra of Fredholm operators in locally convex spaces. *Proc. Cambridge Philos. Soc.* 60 (1964), 801-806. (A. Browder) 30 #451

The spectra of compact operators in Hilbert spaces. *Proc. Glasgow Math. Assoc.* 7, 34-38 (1965). (S. R. Foguel) 31 #2619

Operators with a single spectrum. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 11-18. (M. Nakamura) 34 #1858

Riesz operators in Banach spaces. *Proc. London Math. Soc.* (3) 16 (1966), 131-140. (M. Nakamura) 33 #1742

The decomposition of Riesz operators. *Proc. London Math. Soc.* (3) 16 (1966), 737-752. (A. C. Zaanen) 33 #6417

(with Gillespie, T. A.) A characterisation and two examples of Riesz operators. *Glasgow Math. J.* 9 (1968), 106-110. (M. Nakamura) 38 #5031

(with Kaashoek, M. A.) Semi-simple locally compact monothetic semi-algebras. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 215-219. (G. Brown) 40 #736a

(with Kaashoek, M. A.) Locally compact monothetic semi-algebras. *Proc. London Math. Soc.* (3) 18 (1968), 428-438. (F. F. Bonsall) 37 #3358

Weakly compact monothetic semigroups of operators in Banach spaces. *Proc. Roy. Irish Acad. Sect. A* 67, 27-37 (1968). (S. Kantorovitz) 39 #824

(with Kaashoek, M. A.) Compact semigroups in commutative Banach algebras. *Proc. Cambridge Philos. Soc.* 66 (1969), 265-274. (H. S. Collins) 41 #4250

(with Murphy, Timothy) Inner products in Banach spaces and supports of Radon measures. *Proc. Roy. Irish Acad. Sect. A* 69, 55-61 (1970). (N. T. Peck) 41 #4213

estbrook, D. R.

The torsional rigidity of tubes of constant normal thickness. *Proc. Cambridge Philos. Soc.* 60 (1964), 1023-1026. (J. W. Craggs) 29 #4279

Applications of asymptotic integration to potential problems for shells. *SIAM J. Appl. Math.* 14 (1966), 131-146. (J. W. Craggs) 32 #8589

On the accuracy of "interior" solutions of the reduced wave equation in a plate-like region. *J. Math. and Phys.* 47 (1968), 67-78. (N. Zitron) 36 #7373

estcott, Bryan S.

Generalized confluent hypergeometric and hypergeometric transmission lines. *IEEE Trans. Circuit Theory* CT-16 (1969), 289-294. (Author's summary) 40 #2455

Soluble profiles for inhomogeneous gyrational media. *Quart. J. Mech. Appl. Math.* 23 (1970), 431-440. (M. G. F. Boella) 43 #2916

estcott, M.

Identifiability in linear processes. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 16 (1970), 39-46. (P. W. Millar) 43 #8117

estenberg, J.

Nomograms for testing significance in a 2 × 2 contingency table for sample sizes of 10 to 500. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 441-466. (E. Otto) 30 #730

. Westenholz, C.

Unendlichdimensionale Liegruppen als Symmetrien einer Streumatrix. (English summary) *Acta Phys. Austriaca* 30 (1969), 260-270. (A. J. Coleman) 42 #4107

Analyse der Kopplung von innerer und Raum-Zeit-Symmetrie mit unendlichparametrigen Liegruppen. (English summary) *Acta Phys. Austriaca* 31 (1970), 54-60. (P. W. Higgs) 42 #8807

Magnetische Monopole und Quarks. (English summary) *Ann. Physik* (7) 25 (1970), 337-346. (H. S. P. Grässer) 44 #6276

On a modified classification scheme for elementary particles. (French summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 285-293. (P. W. Higgs) 44 #5024

A group theoretical model for mass-splitting. (French summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 295-308. (P. W. Higgs) 44 #5025

estergren, Bertil

(with Thomée, Vidar) Elliptic difference equations and interior regularity. *Numer. Math.* 11 (1968), 196-210. (Authors' summary) 36 #7347

estermann, L. R. J.

(with Ridder, J.) Hinreichende Bedingungen für analytische, harmonische und subharmonische Funktionen. II, III. *Nederl. Akad. Wetensch. Proc. Ser. A* 64 = *Indag. Math.* 23 (1961), 261-271, 272-279. (M. G. Arsove) 29 #2365a

Hinreichende Bedingungen für analytische, harmonische und subharmonische Funktionen. IV, V. *Nederl. Akad. Wetensch. Proc. Ser. A* 65 = *Indag. Math.* 24 (1962), 266-282, 283-290. (M. G. Arsove) 29 #2365b

Hinreichende Bedingungen für analytische, harmonische und subharmonische Funktionen. VI. VII, VIII, IX. *Nederl. Akad. Wetensch. Proc. Ser. A* 66 = *Indag. Math.* 25 (1963), 97-109, 110-120, 328-336, 337-348. (M. G. Arsove) 29 #2365c

estern, A. E.

* (with Miller, J. C. P.) Tables of indices and primitive roots. Royal Society Mathematical Tables, Vol. 9. *Published for the Royal Society at the Cambridge University Press, London,* 1968. liv + 385 *pp.* (I. A. Stegun) 39 #7792

Westervelt, Peter J.

Gravitational radiation from a pulse of light. *Acta Phys. Polon.* 27 (1965), 831-841. (W. Israel) 32 #3808

Westfall, Richard S.

Huygen's rings and Newton's rings: Periodicity and seventeenth century optics. *Ratio* 10 (1968), 64-77. (J. A. Lohne) 39 #3953

Westlake, Joan R.

* A handbook of numerical matrix inversion and solution of linear equations. *John Wiley & Sons, Inc., New York-London-Sydney,* 1968. viii + 171 *pp.* (Editors) 36 #4794

Westman, Joel J.

Locally trivial C^r groupoids and their representations. *Pacific J. Math.* 20 (1967), 339-349. (S. Kobayashi) 35 #2232

Harmonic analysis on groupoids. *Pacific J. Math.* 27 (1968), 621-632. (H. A. Smith) 39 #5758

Cohomology for ergodic groupoids. *Trans. Amer. Math. Soc.* 146 (1969), 465-471. (A. Kleppner) 41 #431

Cohomology for the ergodic actions of countable groups. *Proc. Amer. Math. Soc.* 30 (1971), 318-320. (L. Shapiro) 43 #6402

Westmann, R. A.

Layered systems subjected to asymmetric surface shears. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/63), 140-149 (1964). (R. Muki) 29 #4271

Pressurized star crack. *J. Math. and Phys.* 43 (1964), 191-198. (F. R. N. Nabarro) 29 #4265

Simultaneous pairs of dual integral equations. *SIAM Rev.* 7 (1965), 341-348. (A. E. Danese) 31 #5049

Asymmetric mixed boundary-value problems of the elastic half-space. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 411-417. (R. Muki) 32 #1955

Weston, J. D.

An algebraic theory of generalized functions. *Nieuw Arch. Wisk.* (3) 18 (1970), 211-249. (J. N. Pandey) 44 #7285

Weston, J. H.

(with Gulden, S. L.; Fleischman, W. M.) Linearly ordered topological spaces. *Proc. Amer. Math. Soc.* 24 (1970), 197-203. (R. M. Stephenson, Jr.) 40 #3511

Weston, Kenneth W.

Z-A groups which satisfy the mth Engel condition. *Illinois J. Math.* 8 (1964), 458-472. (K. W. Gruenberg) 30 #3143

On predicate letter formulas which have no substitution instances provable in a first order language. *Notre Dame J. Formal Logic* 6 (1965), 296-300. (A. H. Lachlan) 35 #1472

On a useful theorem for commutator calculation and the theory of associative rings. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 373-378. *Gordon and Breach, New York,* 1967. (M. F. Newman) 35 #6760

ZA groups with a cyclic terminal upper central factor. *Portugal. Math.* 26 (1967), 185-191. (A. H. Rhemtulla) 41 #6958

An equivalence between nonassociative ring theory and the theory of a special class of groups. *Proc. Amer. Math. Soc.* 19 (1968), 1356-1362. (E. Mendelson) 38 #4531

Varieties of rings and groups. *J. Algebra* 12 (1969), 330-334. (S. E. Stonehewer) 40 #211

(with Krause, E.) An algorithm related to the restricted Burnside group of prime exponent. *Computational Problems in Abstract Algebra (Proc. Conf., Oxford,* 1967*), pp.* 185-187. *Pergamon, Oxford,* 1970. (R. R. Struik) 41 #5473

(with Gupta, Narain D.) On groups of exponent four. *J. Algebra* 17 (1971), 59-66. (H. Heineken) 42 #3176

(with Krause, Eugene F.) On the Lie algebra of a Burnside group of exponent 5. *Proc. Amer. Math. Soc.* 27 (1971), 463-470. (I. Stewart) 43 #2034

Weston, Vaughan H.

Extension of Fock theory for currents in the penumbra region. *J. Res. Nat. Bur. Standards Sect. D* 69D (1965), 1257-1270. (J. J. Bowman) 32 #5032

(with Bowman, J. J.; Ar, Ergun) On the electromagnetic inverse scattering problem. *Arch. Rational Mech. Anal.* 31 (1968/69), 199-213. (R. F. Millar) 38 #2996

The spectral distribution for a differential equation associated with infrasonic waves. *J. Math. Anal. Appl.* 30 (1970), 596-604. (R. R. D. Kemp) 41 #3870

Westpfahl, Konradin

(with Hönl, H.; Maue, A. W.) Theorie der Beugung. *Handbuch der Physik, Band XXV/1, pp.* 218-573. *Springer, Berlin,* 1961. (N. Chako) 31 #1877

(with Gralewski, U.) Die induzierten Darstellungen inhomogen ergänzter unitärer Symmetriegruppen. (English summary) *Comm. Math. Phys.* 10 (1968), 93-113. (G. R. Allcock) 38 #4612

Westphal, Ursula

(with Berens, H.) A Cauchy problem for a generalized wave equation. *Acta Sci. Math. (Szeged)* 29 (1968), 93-106. (Y. Hayashi) 39 #819 (with Berens, H.; Butzer, P. L.) Representation of fractional powers of infinitesimal generators of semigroups. *Bull. Amer. Math. Soc.* 74 (1968), 191-196. (S. Kantorovitz) 36 #3163

(with Berens, H.) Zur Charakterisierung von Ableitungen nichtganzer Ordnung im Rahmen der Laplace-Transformation. *Math. Nachr.* 38 (1968), 115-129. (I. I. Hirschman, Jr.) 38 #1477

Über Potenzen von Erzeugern von Halbgruppenoperatoren. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach, 1968), pp.* 82-91. *Birkhäuser, Basel,* 1969. (A. Pazy) 41 #2464

Ein Kalkül für gebrochene Potenzen infinitesimaler Erzeuger von Halbgruppen und Gruppen von Operatoren. Halbgruppenerzeuger. *Compositio Math.* 22 (1970), 67-103. (G. Sunouchi) 41 #6010a

Ein Kalkül für gebrochene Potenzen infinitesimaler Erzeuger bon Halbgruppen und Gruppen von Operatoren. Gruppenerzeuger. *Compositio Math.* 22 (1970), 104-136. (G. Sunouchi) 41 #6010b

(with Butzer, P. L.) The mean ergodic theorem and saturation. *Indiana Univ. Math. J.* 20 (1970/71), 1163-1174. (D. Leviatan) 43 #5000

van Westrhenen, S. C.

A simple stochastic model of the reduction of a semantic tableau. *Automation in Language Translation and Theorem Proving, pp.* 3-6. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 38 #5605

A simple application of discrete Markov chains to mathematical logic. *Automation in Language Translation and Theorem Proving, pp.* 7-18. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 38 #5606

Some remarks on the statistical estimation of probability in first-order predicate calculus. *Automation in Language Translation and Theorem Proving, pp.* 19-25. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 38 #5607

Statistical estimation of definability. *Automation in Language Translation and Theorem Proving, pp.* 27-39. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 38 #5608

A random generator for sentential calculus. *Automation in Language Translation and Theorem Proving, pp.* 85-91. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 38 #5609

Two programmes for the calculus of propositional logic. *Automation in Language Translation and Theorem Proving, pp.* 49-67. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 39 #5309

A computer programme for the first order predicate calculus without identity. *Automation in Language Translation and Theorem Proving, pp.* 69-83. *Commission of the European Communities, Brussels,* 1968. (L. W. Szczerba) 39 #5310

A probabilistic machine for the estimation of provability in the first order predicate calculus. *Z. Math. Logik Grundlagen Math.* 15 (1969), 291-297. (A. Salamaa) 41 #8236

Weström, M.

(with Schröter, J.) Canonical transformations in quantum mechanics. *Ann. Physik* (7) 26 (1971), 59-65. (H. Araki) 43 #7172

(with Schröter, J.) Time-dependent coordinate transformations. *Ann. Physik* (7) 26 (1971), 66-72. (H. Araki) 43 #7173

Westwater, Ed R.

(with Strand, Otto Neall) Statistical estimation of the numerical solution of a Fredholm integral equation of the first kind. *J. Assoc. Comput. Mach.* 15 (1968), 100-114. (Authors' summary) 38 #4064

(with Strand, Otto Neall) Minimum-rms estimation of the numerical solution of a Fredholm integral equation of the first kind. *SIAM J. Numer. Anal.* 5 (1968), 287-295. (G. F. Miller) 38 #1851

Westwater, M. J.

Feynman functions associated with the sixth order ladder diagram. *Helv. Phys. Acta* 40 (1967), 596-638. (P. G. Federbush) 36 #1153

(with Ponzano, G.; Regge, T.; Speer, E. R.) The monodromy rings of a class of self-energy graphs. *Comm. Math. Phys.* 15 (1969), 83-132. (R. L. Ingraham) 40 #6875

On the renormalization of Feynman integrals. *Fortschr. Physik* 17 (1969), 1-71. (Author's summary) 39 #2416

(with Ponzano, G.; Regge, T.; Speer, E. R.) The monodromy rings of one loop Feynman integrals. *Comm. Math. Phys.* 18 (1970), 1-64. (R. L. Ingraham) 42 #2749

(with Speer, E. R.) Generic Feynman amplitudes. *Ann. Inst. H. Poincaré Sect. A (N.S.)* 14 (1971), 1-55. (J. E. Marsden) 44 #1325

Westwick, Roy

Linear transformations on Grassmann spaces. *Pacific J. Math.* 14 (1964), 1123-1127. (J. A. Todd) 29 #4766

On interpolation between invariant measures. *Proc. London Math. Soc.* (3) 14 (1964), 208-220. (J. H. Neuwirth) 32 #7704

Transformations on tensor spaces. *Pacific J. Math.* 23 (1967), 613-620. (Marvin Marcus) 37 #1397

Linear transformations on Grassmann spaces. *Canad. J. Math.* 21 (1969), 414-417. (P. Botta) 39 #2799

A note on symmetry classes of tensors. *J. Algebra* 15 (1970), 309-311. (P. Botta) 41 #3508

(with Balaban, A. T.; Davies, Roy O.: Harary, Frank; Hill, Anthony) Cubic identity graphs and planar graphs derived from trees. *J. Austral. Math. Soc.* 11 (1970), 207-215. (W. G. Brown) 41 #6718

Weszely, T.

(with Szilágyi, M.) A differential geometric interpretation of integral curves of a system of differential equations of order two. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 273-280. (Authors' summary) 39 #1734

On a theorem of H. Hopf. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 273-279. (W. S. Piper) 37 #3594

Vector fields on compact Kähler manifolds with nonvanishing constant holomorphic curvature. (Romanian. English summary) *Stud. Cerc. Mat.* 21 (1969), 819-821. (M. Stoka) 43 #3981

van de Wetering, R. L.

Parseval's relations for some integral transforms. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 453-466. (K. M. Saksena) 36 #5624

(with Neulenbeld, B.) On some series of Dougall. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 530-534. (H. M. Srivastava) 37 #476

A generalization of the Mehler-Dirichlet integral. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 234-238. (R. A. Askey) 37 #477

Wetherill, G. Barrie

An approximation to the inverse normal function suitable for the generation of random normal deviates on electronic computers. *Appl. Statist.* 14 (1965), 201-205. (M. Muller) 33 #8087

* Sequential methods in statistics. *Methuen & Co., Ltd., London; John Wiley & Sons, Inc., New York,* 1966. x + 218 *pp.* (E. J. Dudewicz) 35 #7504

(with Chen, H.; Vasudeva, R. B.) Sequential estimation of quantal response curves: A new method of estimation. *Biometrika* 53 (1966), 439-454. (D. G. Chapman) 35 #6275

(with Campling, G. E. G.) The decision theory approach to sampling inspection. (With discussion) *J. Roy. Statist. Soc. Ser. B* 28 (1966), 381-416. (S. Blumenthal) 35 #3837

Wets, Roger J.-B.

Programming under uncertainty: The complete problem. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4 (1965/66), 316-339. (B. Bereanu) 34 #7209

Programming under uncertainty: The equivalent convex program. *SIAM J. Appl. Math.* 14 (1966), 89-105. (Author's summary) 32 #7231

Programming under uncertainty: The solution set. *SIAM J. Appl. Math.* 14 (1966), 1143-1151. (J. N. Kapur) 34 #5514

(with Van Slyke, Richard) Programming under uncertainty and stochastic optimal control. *SIAM J. Control* 4 (1966), 179-193. (J. N. Kapur) 33 #2459

(with Witzgall, Christoph) Algorighms for frames and lineality spaces of cones. *J. Res. Nat. Bur. Standards Sect. B.* 71B (1967), 1-7. (G. Ewald) 35 #4816

(with Marshall, Albert W.; Walkup, D. W.) Order-preserving functions: Applications to majorization and order statistics. *Pacific J. Math.* 23 (1967), 569-584. (R. E. Smithson) 36 #2756

(with Walkup, David W.) Continuity of some convex-cone-valued mappings. *Proc. Amer. Math. Soc.* 18 (1967), 229-235. (B. Yood) 35 #702

(with Walkup, David W.) Stochastic programs with recourse. *SIAM J. Appl. Math.* 15 (1967), 1299-1314. (B. Bereanu) 38 #1910

(Van Slyke, Richard M.) Stochastic programs in abstract spaces. *Stochastic Optimization and Control (Proc. Advanced Seminar, Madison, Wis.,* 1967*), pp.* 25-45. *John Wiley, New York,* 1968. (B. Bereanu) 41 #3159

(Walkup, David W.) A note on decision rules for stochastic programs. *J. Comput. System Sci.* 2 (1968), 305-311. (B. Bereanu) 39 #7941

(with Van Slyke, Richard M.) A duality theory for abstract mathematical programs with applications to optimal control theory. *J. Math. Anal. Appl.* 22 (1968), 679-706. (V. F. Dem'janov) 37 #5047

(with Witzgall, Christoph) Towards an algebraic characterization of convex polyhedral cones. *Numer. Math.* 12 (1968), 134-138. (G. T. Sallee) 38 #2665

(with Walkup, David W.) Lifting projections of convex polyhedra. *Pacific J. Math.* 28 (1969), 465-475. (P. McMullen) 39 #3390

(with Walkup, David W.) A Lipschitzian characterization of convex polyhedra. *Proc. Amer. Math. Soc.* 23 (1969), 167-173. (P. McMullen) 39 #7504

(with Walkup, David W.) Stochastic programs with recourse. II.: On the continuity of the objective. *SIAM J. Appl. Math.* 17 (1969), 98-103. (B. Bereanu) 39 #7942

(with Van Slyke, R. M.) *L*-shaped linear programs with applications to optimal control and stochastic programming. *SIAM J. Appl. Math.* 17 (1969), 638-663. (H. Taylor) 40 #6955

(with Walkup, David W.) Some practical regularity conditions for nonlinear programs. *SIAM J. Control* 7 (1969), 430-436. (G. Berman) 41 #9575

Problèmes duaux en programmation stochastique. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A47-A50. (B. Bereanu) 42 #8896

Wette, Eduard

Eine Anmerkung zu Gödels Komprehensionstheorem. *Arch. Math. Logik Grundlagenforsch.* 9 (1966), 59-60. (E.-J. Thiele) 36 #6284

On the mathematical and the physical aspects of the continuum problem. *Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Cracovie, 1965), Sect. III: Histoire des Sciences Exactes (Astronimie, Mathématiques, Physique), pp.* 283-293. *Ossolineum, Wrocław,* 1968. (K. Inoue) 41 #1470

Definition eines (relativ vollständigen) formalen Systems konstruktiver Arithmetik. *Foundations of Mathematics (Symposium Commemorating Kurt Gödel, Columbus, Ohio, 1966), pp.* 130-195. *Springer, New York,* 1969. (K. Schütte) 42 #2941

Wettenschwiler, K.

Spezielle Lösungen der erweiterten Erneuerungsgleichung. (French, English and Italian summaries) *Mitt. Verein. Schweiz. Versich.-Math.* 64 (1964), 215-224. (M. Dwass) 30 #3512

Wetterling, Wolfgang

Anwendung des Newtonschen Iterationsverfahrens bei der Tschebyscheff-Approximation, insbesondere mit nichtlinear auftretenden Parametern. II. *Math.-Tech.-Wirtschaft* 10 (1963), 112-115. (I. Marx) 29 #4180

Tschebyscheff-Approximation mit nichtlinear auftretenden Parametern. *Z. Angew. Math. Mech.* 44 (1964), *suppl.*, T85-T86. (D. C. Gilles) 35 #7046

* (with Collatz, Lothar) Optimierungsaufgaben. Heidelberger Taschenbücher, Band 15. *Springer-Verlag, Berlin-New York,* 1966. ix + 181 *pp.* (M. J. Beckmann) 34 #4003

Lösungsschranken beim Differenzenverfahren zur Potentialgleichung. *Numerische Mathematik, Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach, 1966), pp.* 209-222. *Birkhäuser, Basel,* 1968. (B. A. Bondarenko) 42 #4032

Lösungsschranken bei elliptischen Differentialgleichungen. *Numerische Mathematik. Differentialgleichungen. Approximationstheorie (Tagungen, Oberwolfach, 1966), pp.* 393-401. *Birkhäuser, Basel,* 1968. (I. Aganović) 42 #4033

Lokal optimale Schranken bei Randwertaufgaben. (English summary) *Computing (Arch. Elektron. Rechnen)* 3 (1968), 125-130. (Author's summary) 37 #6050

Definitheitsbedingungen für relative Extrema bei Optimierungs- und Approximationsaufgaben. (English summary) *Numer. Math.* 15 (1970), 122-136. (J. F. Heyda) 42 #5641

Wettstein, K.

(See Klado, T. N., 41 #3220)

Wetzel, John E.

On the functional inequality $f(x + y) \geq f(x)f(y)$. *Amer. Math. Monthly* 74 (1967), 1065-1068. (J. Aczél) 37 #4444

Triangular covers for closed curves of constant length. *Elem. Math.* 25 (1970), 78-82. (B. d'Orgeval) 42 #960

Wetzel, Marion

(with Seall, Robert) Quadratic forms and chain sequences. *Proc. Amer. Math. Soc.* 15 (1964), 729-734. (W. T. Scott) 29 #3787

Wetzel, Wolfgang

Univariable mikro-ökonomische Prognosenmodelle mit exponentieller Gewichtung der Beobachtungswerte. Festschrift für Hans Kellerer. *Metrika* 6 (1963), 155-186. (G. Tintner (Zbl 133, 144)) 38 #846

* (with Jöhnk, Max-Detlev; Naeve, Peter) Statistische Tabellen. *Walter de Gruyter & Co., Berlin,* 1967. 169 *pp.* (H. L. Harter) 36 #4670

Wexler, Dinu

Solutions périodiques et presque périodiques des systèmes d'équations différentielles aux impulsions. *C. R. Acad. Sci. Paris* 259 (1964), 287-289. (C. Cordunean) 29 #2471

Solutions périodiques et presque-périodiques des systèmes d'équations différentielles aux impulsions. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1163-1199. (H. C. Howard) 35 #6932

Solutions presque-périodiques des systèmes d'équations différentielles à perturbation-distribution. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A436-A439. (J. K. Hale) 32 #7867

Sur une équation différentielle nonlinéaire aux impulsions. *J. Differential Equations* 2 (1966), 1-11. (P. Sagirow) 35 #3160

Solutions périodiques et presque-périodiques des systèmes d'équations différentielles linéaires en distributions. *J. Differential Equations* 2 (1966), 12-32. (J. Elliott) 33 #354

Note on the eventual stability. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 819-824. (R. Liu) 34 #4620

Solutions périodiques des systèmes linéaires stationnaires de type neutre. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A56-A58. (T. K. Boehme) 36 #5474

Solutions périodiques des systèmes linéaires à argument retardé. *J. Differential Equations* 3 (1967), 236-247. (G. H. Meisters) 34 #7922

* (with Halanay, A.) Teoria calitativă a sistemelor cu impulsuri. (Romanian) [The qualitative theory of systems with impulse] *Editura Academiei Republicii Socialiste România, Bucharest,* 1968. 313 *pp.* (C. Corduneanu) 38 #1339

On boundary value problems for an ordinary linear differential system. *Ann. Mat. Pura Appl.* (4) 80 (1968), 123-134. (G. H. Meyer) 40 #511

Solutions presque-périodiques des systèmes linéaires à perturbation-distribution. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 111-129. (N. Chafee) 40 #463

Periodic solutions of some stationary linear systems. *J. Differential Equations* 5 (1969), 12-31. (Joseph C. Wilson) 38 #1340

Wey, Ing-tzer

Estimation of parameters in the domain of study with two-stage sampling. *Tamkang J. Math.* 1 (1970), *no.* 2, 109-120. (D. S. Tracy) 43 #4209

Weyers, J.

Diffusion dans des systèmes de quatre corps. *Ann. Soc. Sci. Bruxelles Ser. I* 79 (1965), 76-86. (I. Białynicki-Birula) 31 #2996

(with Cerulus, F.) Unitary symmetry and finite groups. *Nuclear Phys.* 79 (1966), 604-608. (S. Okubo) 33 #7020

Formal theory of n-particle scattering. *Phys. Rev.* (2) 145 (1966), 1236-1242. (D. I. Olive) 34 #2270

Weygandt, C. N.

(with Jonnada, R. K.) Limit cycles of higher order nonlinear autonomous systems. *J. Franklin Inst.* 291 (1971), 195-210. (J. W. Heidel) 43 #6508

Weyh, Ulrich

* Elemente der Schaltungsalgebra. *R. Oldenbourg, Munich,* 1960. 116 *pp.* (Editors) 29 #5689

Weyl, Hermann

*La simmetria. Traduzione dall'inglese di Giliola Lopez. *Giangiacomo Feltrinelli Editore, Milan,* 1962. 175 *pp.* (Editors) 33 #7218

* Mathematische Analyse des Raumproblems: Vorlesungen gehalten in Barcelona und Madrid. *Was ist Materie? Zwei Aufsätze zur Naturphilolophie. *Wissenschaftliche Buchgesellschaft, Darmstadt,* 1963. vii + 117 *pp.*; iv + 88 *pp.* (Editors) 31 #1163

* Die Idee der Riemannschen Fläche. Vierte Auflage. Unveränderter Nachdruck der dritten, vollständig umgearbeiteten Auflage. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1964. viii + 162 *pp.* (Editors) 29 #239

* The concept of a Riemann surface. Translated from the third German edition by Gerald R. MacLane. ADIWES International Series in Mathematics. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1964. xi + 191 *pp.* (M. H. Heins) 29 #3628

* Algebraische Zahlentheorie. Übersetzt aus dem Englischen von Wolfgang Schwarz. B. I. Hochschultaschenbücher, Band 136/136a. *Bibliographisches Institut, Mannheim,* 1966. 222 *pp.* (Editors) 35 #164

* Philosophie der Mathematik und Naturwissenschaft. Überarbeitet und übersetzt aus dem englischen von Gottlob Krischmer. Dritte wesentlich erweiterte Auflage. *R. Oldenbourg, Munich-Vienna,* 1966. 406 *pp.* (Editors) 35 #1432

* Gesammelte Abhandlungen. Bände I, II, III, IV. Herausgegeben von K. Chandrasekharan. *Springer-Verlag, Berlin-New York,* 1968. *Band I:* vi + 698 *pp. (1 plate); Band II:* iv + 647 *pp. (loose drrata); Band III:* iv + 791 *pp.; Band IV:* iv + 694 *pp.* (Editors) 37 #6157

* Raum, Zeit, Materie. Vorlesungen über allgemeine Relativitätstheorie. Sechste, univeränderte Auflage. *Springer-Verlag, Berlin-New York,* 1970. viii + 338 *pp.* (Editors) 42 #2768

(See also Reid, Constance, 42 #5767 and Hilbert, D., 44 #18)

Weyssenhoff, Jean

Modèles relativistes de particules à spin et lignes d'univers isotropes. *Les théories relativistes de la gravitation (Royaumont, 1959), pp.* 57-66. *Editions du Centre National de la Recherche Scientifique, Paris,* 1962. (F. A. E. Pirani) 29 #2030

Whaley, Thomas P.

Algebras satisfying the descending chain condition for subalgebras. *Pacific J. Math.* 28 (1969), 217-223. (M. Gould) 38 #5693

Large sublattices of a lattice. *Pacific J. Math.* 28 (1969), 477-484. (P. A. Fillmore) 39 #2670

(with Bednarek, A. R.) Binary relations on sets of regular cardinality. *Proc. Amer. Math. Soc.* 23 (1969), 455-457. (D. Rosenblatt) 40 #5507

Whang Chia-kong. See Wang Chia-kang.

Whaples, George

(with Grant, K.) Abstract class formations. *Bull. Amer. Math. Soc.* 67 (1961), 393-395. (J. E. Adney) 30 #86 (E)

(with Grant, K.) Correction to "Abstract class formations". *Bull. Amer. Math. Soc.* 69 (1963), 123. (Editors) 30 #87 (with Grant, K.) Abstract class formations. *J. Fac. Sci. Univ. Tokyo Sect. I* 11, 187-194 (1965). (Y. Kawada) 32 #4117

(with Rim, D. S.) Global norm-residue map over quasi-finite field. *Nagoya Math. J.* 27 (1966), 323-329. (J. V. Armitage) 34 #4252

(with Seo, Tae Kun) A generalization of global class field theory. *Canad. J. Math.* 21 (1969), 609-614. (H. Yokoi) 39 #2725

(with Rhie, Y. H.) Hecke operators in cohomology of groups. *J. Math. Soc. Japan* 22 (1970), 431-442. (M. Kuga) 44 #2838

(with Glass, K. H. M.; Moore, R. A.) On extending a norm residue symbol. *J. Reine Angew. Math.* 245 (1970), 124-132. (H. Yokoi) 42 #5950

Wheatley, Patrick O.

(with Kelly, Henry J.; Denham, Walter F.; Johnson, Ivan L.) An accelerated gradient method for parameter optimization with non-linear constraints. *J. Astronaut. Sci.* 13 (1966), 166-169. (J. N. Kapur) 33 #8219

Wheeden, Richard L.

On the *n*-dimensional integral of Marcinkiewicz. *J. Math. Mech.* 14 (1965), 61-70. (T. A. Botts) 30 #221

Derivatives of Fourier series and integrals. *Studia Math.* 28 (1966), 69-80. (G. Sunouchi) 34 #6437

Hypersingular integrals and summability of Fourier integrals and series. *Singular Integrals (Proc. Sympos. Pure Math., Chicago, Ill., 1966), pp.* 336-369. *Amer. Math. Soc., Providence, R. I.,* 1967. (J. Bryant) 39 #3364

(with Hunt, Richard A.) On the boundary values of harmonic functions. *Trans. Amer. Math. Soc.* 132 (1968), 307-322. (S. Schneider) 37 #1634

On hypersingular integrals and Lebesgue spaces of differentiable functions. *Trans. Amer. Math. Soc.* 134 (1968), 421-435. (R. A. Hunt) 38 #575

(with Segovia, C.) On certain fractional area integrals. *J. Math. Mech.* 19 (1969/70), 247-262. (M. Itô) 39 #7472

Lebesgue and Lipschitz spaces and integrals of the Marcinkiewicz type. *Studia Math.* 32 (1969), 73-93. (P. G. Rooney) 40 #3376

On hypersingular integrals and Lebesgue spaces of differentiable functions. II. *Trans. Amer. Math. Soc.* 139 (1969), 37-53. (R. A. Hunt) 39 #2028

On hypersingular integrals and certain spaces of locally differentiable functions. *Trans. Amer. Math. Soc.* 146 (1969), 211-230. (R. A. Hunt) 40 #6313

(with Segovia, D.) On the function g_λ^* and the heat equation. *Studia Math.* 37 (1970), 57-93. (B. Frank Jones, Jr.) 44 #3124

(with Hunt, Richard A.) Positive harmonic functions on Lipschitz domains. *Trans. Amer. Math. Soc.* 147 (1970), 507-527. (Guy Johnson) 43 #547

(with Muckenhoupt, Benjamin) Weighted norm inequalities for singular and fractional integrals. *Trans. Amer. Math. Soc.* 161 (1971), 249-258. (C. Fox) 44 #3155

Wheeler, John Archibald

Absence of a gravitational analog to electrical charge. *Fundamental Topics in Relativistic Fluid Mechanics and Magnetohydrodynamics (Proc. Sympos., Michigan State Univ., 1962), pp.* 1-20. *Academic Press, New York,* 1963. (J. Lew) 30 #942

Geometrodynamics and the issue of the final state. *Relativité, Groupes et Topologie (Lectures, Les Houches, 1963 Summer School of Theoret. Phys., Univ. Grenoble), pp.* 315-520. *Gordon and Breach, New York,* 1964. (P. Roman) 29 #5596

(See also Battelle rencontres, 38 #955)

Wheeler, Lewis T.

Some results in the linear dynamical theory of anisotropic elastic solids. *Quart. Appl. Math.* 28 (1970/71), 91-101. (H. R. Aggarwal) 42 #4058

Wheeler, Mary Fanett

(with Young, David M.) Alternating direction methods for solving partial difference equations. *Nonlinear Problems of Engineering, pp.* 220-246. *Academic Press, New York,* 1964. (M. Lees) 30 #4395

Wheeler, R. Clyde

(with Buckley, D. J.) Some results for fixed-time traffic signals. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 133-140. (G. Newell) 30 #1556

Wheeler, Roger F.

Complete connectives for the 3-valued propositional calculus. *Proc. London Math. Soc.* (3) 16 (1966), 167-191. (V. Devidé) 32 #7402

Wheeler, Stanley

(with Watson, G. S.) A distribution-free two-sample test on a circle. *Biometrika* 51 (1964), 256-257. (Authors' summary) 30 #2609

Wheeling, R. F.

Heuristic search: Structured problems. *Progress in Operations Research, Vol. III: Relationship Between Operations Research and the Computer, pp.* 317-359. *Wiley, New York,* 1969. (E. J. Haug, Jr.) 44 #1444

Wheelon, Albert D.

* Tables of summable series and integrals involving Bessel functions. *Holden-Day, San Francisco, Calif.-London-Amsterdam,* 1968. v + 125 *pp.* (Editors) 37 #1060

Whelchel, J. E., Jr.

(with Guinn, D. F.) Properties of high radix fast Fourier Hadamard transforms. *Applications of Walsh Functions (Proc. Sympos. and Workshop, Naval Research Lab., Washington, D. C., 1970), pp.* 80-87. *Naval Research Lab., Washington, D. C.,* 1970. (John Todd) 44 #4907

Whidden, Ph.

(with Duffin, R. J.) An exponomial extrapolator. *J. Math. Anal. Appl.* 3 (1961), 526-536. (A. Schubert (Zbl 123, 121)) 36 #2301

Whinston, Andrew

A dual decomposition alsorighm for quadratic programming. *Cahiers Centre Études Recherche Opér.* 6 (1964), 188-201. (J. Stoer) 31 #2077

(with van de Panne, C.) Simplicial methods for quadratic programming. *Naval Res. Logist. Quart.* 11 (1964), 273-302. (J. Stoer) 32 #3863

The bounded variable problem—An application of the dual method for quadratic programming. *Naval Res. Logist. Quart.* 12 (1965), 173-179. (Author's summary) 33 #7135

Conjugate functions and dual programs. *Naval Res. Logist. Quart.* 12 (1965), 315-322. (E. M. L. Beale) 34 #8817

(with Rothschild, B.) Feasibility of two commodity network flows. *Operations Res.* 14 (1966), 1121-1129. (A. C. Williams) 34 #8809

Some applications of the conjugate function theory to duality *Nonlinear Programming (NATO Summer School, Menton, 1964), pp.* 75-96. *North-Holland, Amsterdam,* 1967. (G. Owen) 38 #3043

(with Rothschild, B.) Maximal two-way flows. *SIAM J. Appl. Math.* 15 (1967), 1228-1238. (D. R. Fulkerson) 36 #5034

(van de Panne, C.) The symmetric formulation of the simplex method for quadratic programming. *Econometrica* 37 (1969), 507-527 (A. Göpfert) 41 #6572

(with Kleitman, D.; Martin-Löf, A.; Rothschild, B.) A matching theorem for graphs. *J. Combinatorial Theory* 8 (1970), 104-114. (C. R. Fulkerson) 41 #6713

Whipp, A. T.

An application of distribution theory to Martin's method in potential scattering. *Proc. Cambridge Philos. Soc.* 68 (1970), 709-718. (J. L. Griffith) 42 #3568

Whipple, Kenneth E.

Cauchy sequences in Moore spaces. *Pacific J. Math.* 18 (1966), 191-199. (K. W. Kwun) 33 #4889

Whippman, M. L.

(with Gerstein, I. S.) Bound states and elementary particles in the limit $Z_3 = 0$. *Phys. Rev.* (2) 134 (1964), B1123-B1127. (P. W. Higgs) 29 #977

Branching rules for simple Lie groups. *J. Mathematical Phys.* 6 (1965), 1534-1539. (R. Delbourgo) 31 #6599

(with Gerstein, I. S.) Higher symmetries for the vector mesons. *Phys. Rev.* (2) 136 (1964), B829-B835. (J. M. Charap) 32 #871

(with Gerstein, I. S.) Strong-interaction symmetries based upon rank-three Lie groups. *Phys. Rev.* (2) 137 (1965), B1522-B1529 (G. Barton) 32 #3638

Some properties of SU_{l+1}. (Italian summary) *Nuovo Comento* (10) 37 (1965), 824-830. (C. R. Hagen) 32 #8860

Whirlow, D. K.

(with Rouleau, W. T.) Periodic flow of a viscous liquid in a thick-walled elastic tube. *Bull. Math. Biophys.* 27 (1965), 355-370. (W. C. Rheinboldt) 31 #6683

Whitbeck, Richard F.

A frequency domain approach to linear optimal control. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 726-737. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the author's summary) 40 #2406

Whitcomb, Mary G.

(with Guenther, William C.) Critical regions for tests of interval hypotheses about the variance. *J. Amer. Statist. Assoc.* 61 (1965), 204-219. (Authors' summary) 33 #816

White, A. J.

Some inclusion relations between matrices compounded from Cesaro matrices. *Trans. Amer. Math. Soc.* 124 (1966), 558-568. (B. E. Rhoades) 34 #532

* Real analysis: An introduction. *Addison-Wesley Publishing Co., London-Reading, Mass.-Don Mills, Ont.,* 1968. viii + 244 *pp.* (S. K. Berberian) 36 #5274

(with Duncan, J.; McGregor, C. M.; Pryce, J. D.) The numerical index of a normed space. *J. London Math. Soc.* (2) 2 (1970), 481-488. (M. V. Subbarao) 41 #8967 (with Steigerwalt, M. S.) Some function spaces related to L_p spaces. *Proc. London Math. Soc.* (3) 22 (1971), 137-163. (R. A. Hunt) 43 #5304

(with Chow, P. S.) The structure semigroup of some convolution measure algebras. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 221-229. (D. E. Ramirez) 44 #7308

White, A. R.

A crossing-symmetric Sommerfeld-Watson transformation of the two-variable expansion of the scattering amplitude. (Italian and Russian summaries) *Nuovo Cimento A* (10) 62 (1969), 805-819. (Author's summary) 42 #8815

(with Goddard, P.) Complex helicity and the Sommerfeld-Watson transformation of group-theoretic expansions. (Italian and Russian summaries) *Nuovo Cimento A* (11) 1 (1971), 645-679. (Authors' summary) 43 #1527

White, Albert George, Jr.

2-Banach spaces. *Math. Nachr.* 42 (1969), 43-60. (Z. Semadeni) 41 #2365

White, Arthur T.

The genus of the complete tripartite graph $K_{mn, n, n}$. *J. Combinatorial Theory* 7 (1969), 283-285. (Author's summary) 39 #6778

The genus of cartesian products of complete bipartite graphs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 469-471. *Gordon and Breach, New York,* 1970. (W. Imrich) 42 #4433

(with Lick, Don R.) *k*-degenerate graphs. *Canad. J. Math.* 22 (1970), 1082-1096. (H. V. Kronk) 42 #1715

(with Chartrand, Gary) Randomly traversable graphs. *Elem. Math.* 25 (1970), 101-107. (F. Harary) 44 #2644

The genus of repeated cartesian products of bipartite graphs. *Trans. Amer. Math. Soc.* 151 (1970), 393-404. (I. Z. Bouwer) 43 #7368

On the genus of products of graphs. *Recent Trends in Graph Theory (Proc. Conf., New York, 1970), pp.* 217-219. *Lecture Notes in Mathematics, Vol.* 186. *Springer, Berlin,* 1971. (Author's introduction) 43 #3153

The genus of the Cartesian product of two graphs. *J. Combinatorial Theory Ser. B* 11 (1971), 89-94. (D. R. Lick) 44 #113

(with Nordhaus, E. A.; Stewart, B. M.) On the maximum genus of of a graph. *J. Combinatorial Theory Ser. B* 11 (1971), 258-267. (K. Wagner) 44 #3922

White, C. C.

(with Civin, P.) Maximal closed preprimes in Banach algebras. *Trans. Amer. Math. Soc.* 147 (1970), 241-260. (S. Warner) 40 #7799

White, D. A.

(with Tallmadge, J. A.) Static menisci on the outside of cylinders. *J. Fluid Mech.* 23 (1965), 325-335. (From the authors' introduction) 32 #680

White, D. J.

On finite nests of intervals of integers. *J. London Math. Soc.* 42 (1967), 501-503. (L. Gillman) 36 #1330

On the largest cap in a convex subset of a sphere. *Proc. London Math. Soc.* (3) 17 (1967), 157-162. (L. A. Santaló) 34 #3440

Operations preserving the convergence of infinite series. II. *Proc. London Math. Soc.* (3) 17 (1967), 163-177. (A. Alexiewicz) 35 #619

Plane sets with intersections of prescribed power. *Fund. Math.* 63 (1968), 111-135. (A. H. Stone) 39 #2051

Functions preserving compactness and connectedness are continuous. *J. London Math. Soc.* 43 (1968), 714-716. (G. S. Ungar) 37 #4785

Functions preserving compactness and connectedness. *J. London Math. Soc.* (2) 3 (1971), 767-768. (G. S. Ungar) 44 #7529

White, D. J.

Forecasts and decisionmaking. *J. Math. Anal. Appl.* 14 (1966), 163-173. (B. Bereanu) 33 #5373

Dynamic programming and systems of uncertain duration: A Markov model. *J. Math. Anal. Appl.* 29 (1970), 419-423. (K. Ritter) 40 #3900

(with Davidson, D.) The optimal route problem and the method of approximation in policy space. *J. Math. Anal. Appl.* 32 (1970), 453-455. (D. Hochstädter) 43 #5896

White, David

(with Hultquist, Robert A.) Construction of confounding plans for mixed factorial designs. *Ann. Math. Statist.* 36 (1965), 1256-1271. (J. Kiefer) 31 #2808

White, George K.

On generators and defining relations for the unimodular group $\mathfrak{M}_2$. *Amer. Math. Monthly* 71 (1964), 743-748. (I. Reiner) 29 #3546

Grid bases in *n*-space. *Quart. J. Math. Oxford Ser.* (2) 16 (1965), 126-134. (A. M. Macbeath) 31 #2213

On subgroups of fixed index. *Pacific J. Math.* 28 (1969), 225-232. (C. K. Megibben) 39 #1554

White, H. E., Jr.

The approximation of one-one measurable transformations by diffeomorphisms. *Trans. Amer. Math. Soc.* 141 (1969), 305-322. (P. T. Church) 39 #4867

White, James H.

Self-linking and the Gauss integral in higher dimensions. *Amer. J. Math.* 91 (1969), 693-728. (W. S. Piper) 40 #6479

Some differential invariants of submanifolds of Euclidean space. *J. Differential Geometry* 4 (1970), 207-223. (M. Kurita) 42 #1035

Self-linking and the directed secant span of a differentiable manifold. *J. Differential Geometry* 5 (1971), 357-369. (W. F. Pohl) 44 #7496

Global properties of immersions into Euclidean spheres. *Indiana Univ. Math. J.* 20 (1970/71), 1187-1194. (K. Aoki) 44 #1045

(with Takens, Floris) Morse theory of double normals of immersions. *Indiana Univ. Math. J.* 21 (1971/72), 11.17. (J. Franks) 44 #7575

White, John S.

(with Rice, John R.) Norms for smoothing and estimation. *SIAM Rev.* 6 (1964), 243-256. (M. M. Siddiqui) 29 #5334

A note on the precise computation of $\log_e N$. *Indust. Math.* 16 (1966), 39-46. (B. C. Carlson) 40 #6739

The moments of log-Weibull order statistics. *Technometrics* 11 (1969), 373-386. (From the author's summary) 39 #2245

White, Lee J.

An efficient algorithm for the Shannon switching game. International Conference on Combinatorial Mathematics (1970). *Ann. New York Acad. Sci.* 175 (1970), 411-412. (A. Lehman) 43 #1879

White, Leon S.

Markovian decision models for the evaluation of a large class of continuous sampling inspection plans. *Ann. Math. Statist.* 36 (1965), 1408-1420. (G. Elfving) 32 #1852

White, Paul A.

(with Brown, Robert R.) A comparison of methods for computing the eigenvalues and eigenvectors of a real symmetric matrix. *Math. Comp.* 18 (1964), 457-463. (James H. Wilkinson) 29 #2947

* Linear algebra. *Dickenson Publishing Co., Inc., Belmont, Calif.,* 1966. x + 323 *pp.* (Y. Lehrer-Ilamed) 34 #1331

The number of solutions of some congruences molulo a product of three primes. *Duke Math. J.* 34 (1967), 1-22. (L. Carlitz) 34 #5747

White, R. B.

(with Cocho, G.; Fronsdal, C.) Current algebras, sum rules, and canonical field theories. *Phys. Rev.* (2) 180 (1969), 1547-1555. (Y. Kato) 40 #6887

(with Dremin, I. M.; Roĭzen, I. I.; Černavskiĭ, D. S.) The Bethe-Salpeter equation and role of "central" interactions. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 952-964 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 633-641. (N. Nakanishi) 32 #816

White, Richard H.

(with May, Michael M.) Hydrodynamic calculations of general-relativistic collapse. *Phys. Rev.* (2) 141 (1966), 1232-1241. (L. Infeld) 33 #2392

White, W. B. Smith. See Smith-White, W. B.

White, Warren

Some tameness conditions involving singular disks. *Trans. Amer. Math. Soc.* 143 (1969), 223-234. (G. Burde) 40 #2040

A 2-complex is collapsible if and only if it admits a strongly convex metric. *Fund. Math.* 68 (1970), 23-29. (A. Lelek) 41 #7626

Whitehead, Donald S.

(with Sloane, Neil J. A.) New family of single-error correcting codes. *IEEE Trans. Information Theory* IT-16 (1970), 717-719. (Authors' summary) 42 #9070

Whitehead, Earl Glen, Jr.

The cross ratio on the real line. *Math. Mag.* 42 (1969), 193-195. (S. R. Mandan) 40 #2607

Whitehead, George W.

Some aspects of stable homotopy theory. *Proc. Internat. Congr. Mathematicians (Stockholm, 1962), pp.* 502-506. *Inst. Mittag-Leffler, Djursholm,* 1963. (Editors) 31 #744

(with Kan, Daniel M.) The reduced join of two spectra. *Topology* 3 (1965), *suppl.* 2, 239-261. (V. Gugenheim) 31 #2720 (with Kan, Daniel M.) Orientability and Poincaré duality in general homology theories. *Topology* 3 (1965), 231-270. (V. Gugenheim) 32 #8335

* Homotopy theory. Compiled by Robert J. Aumann. *Massachusetts Institute of Technology, Cambridge, Mass.-London*, 1966. viii + 124 *pp.* (S.-T. Hu) 33 #4935

The work of Norman E. Steenrod in Algebraic topology: An appreciation. *The Steenrod Algebra and its Applications (Proc. Conf. to Celebrate N. E. Steenrod's Sixtieth Birthday, Battelle Memorial Inst., Columbus, Ohio,* 1970*), pp.* 1-10. *Lecture Notes in Mathematics, Vol.* 168. *Springer, Berlin,* 1970. (Editors) 42 #5255

Whitehead, J. H. C.

(See Mathematical works of J. H. C. Whitehead, 30 #4667a-d)

Whitelaw, T. A.

On the Mathieu group of degree twelve. *Proc. Cambridge Philos. Soc.* 62 (1966), 351-364. (H. S. M. Coxeter) 33 #2730

Janko's group as a collineation group in *PG*(6, 11). *Proc. Cambridge Philos. Soc.* 63 (1967), 663-677. (P. Dembowski) 35 #5522

Whiteley, J. N.

Notes on a theorem on convolutions. *Proc. Amer. Math. Soc.* 16 (1965), 1-7. (L. Carlitz) 30 #1334

On Newton's inequality for real polynomials. *Amer. Math. Monthly* 76 (1969), 905-909. (J. E. Whitesitt) 40 #4248

Whiteman, Albert Leon

(with Carlitz, L.) The number of solutions of some congruences modulo a product of primes. *Trans. Amer. Math. Soc.* 112 (1964), 536-552. (D. G. Cantor) 29 #1171

Theorems on Brewer and Jacobsthal sums. I. *Proc. Sympos. Pure Math., Vol. VIII, pp.* 44-55. *Amer. Math. Soc., Providence, R. I.,* 1965. (R. Ayoub) 31 #137

Theorems on Brewer and Jacobsthal sums. II. *Michigan Math. J.* 12 (1965), 65-80. (R. Ayoub) 36 #132

(with Muskat, Joseph B.) The cyclotomic numbers of order twenty. *Acta Arith.* 17 (1970), 185-216. (H. B. Mann) 42 #3050

Whiteman, J. R.

Treatment of singularities in a harmonic mixed boundary value problem by dual series methods. *Quart. J. Mech. Appl. Math.* 21 (1968), 41-50. (M. G. Hall) 36 #7348

(with Bernal, M. J. M.) Numerical treatment of biharmonic boundary value problems with re-entrant boundaries. *Comput. J.* 13 (1970), 87-91. (Authors' summary) 41 #6417

(with Webb, Jerry C.) Convergence of finite-difference techniques for a harmonic mixed boundary value problem. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 366-374. (F. M. Pascal) 43 #1451

(with Noble, B.) The solution of dual cosine series by the use of orthogonality relations. *Proc. Edinburgh Math. Soc.* (2) 17 (1970), 47-51. (From the authors' introduction) 42 #4981

(with Noble, B.) Solution of dual trigonometrical series using orthogonality relations. *SIAM J. Appl. Math.* 18 (1970), 372-379. (R. P. Srivastav) 41 #5914

Whiteman, Russell A.

A converse form of Daĭovitch's theorem. *Duke Math. J.* 31 (1964), 321-324. (W. C. Royster) 29 #221

A concise proof of Borel's theorem on coefficient bounds. *Amer. Math. Monthly* 74 (1967), 1094. (A. A. Armendáriz) 37 #426

Compactness and certain subclasses of schlicht functions. *Amer. Math. Monthly* 76 (1969), 643-647. (P. L. Duren) 39 #2967

Whiten, W. J.

The use of multi-dimensional cubic spline functions for regression and smoothing. *Austral. Comput. J.* 3 (1971), 81-88. (M. Marsden) 44 #3466

Whiteside, Derek Thomas

(See Newton, Isaac, 32 #5479, 35 #6518; Mathematical papers of Isaac Newton, 35 #5276, 37 #3901 and 41 #8197)

Letter to the editor. *Physis—Riv. Internaz. Storia Sci.* 10 (1968), 258. (J. A. Lohne) 41 #5164

Whitfield, J. H. M.

Differentiable functions with bounded nonempty support on Banach spaces. *Bull. Amer. Math. Soc.* 72 (1966), 145-146. (R. S. Palais) 32 #1547

Whitham, G. B.

A general approach to linear and non-linear dispersive waves using a Lagrangian. *J. Fluid Mech.* 22 (1965), 273-283. (H. P. Greenspan) 31 #6459

Non-linear dispersive waves. *Proc. Roy. Soc. Ser. A* 283 (1965), 238-261. (F. Ursell) 31 #996

Nonlinear dispersive waves. *SIAM J. Appl. Math.* 14 (1966), 956-958. (W. F. Ames) 34 #5376

Non-linear dispersion of water waves. *J. Fluid Mech.* 27 (1967), 399-412. (W. F. Ames) 34 #8711

Two-timing, variational principles and waves. *J. Fluid Mech.* 44 (1970), 373-395. (F. V. Pohle) 42 #4858

Whitin, Thomson M.

(with Hadley, G.) An inventory-transportation model with *N* locations. *Multistage Inventory Models and Techniques, pp.* 116-142. *Stanford Univ. Press, Stanford, Calif.,* 1963. 32 #3867

Whitley, Robert J.

Strictly singular operators and their conjugates. *Trans. Amer. Math. Soc.* 113 (1964), 252-261. (M. Fukamiya) 31 #1565

(with Thorp, Edward O.) Operator representation theorems. *Illinois J. Math.* 9 (1965), 595-601. (R. A. Hirschfeld) 31 #6126

(with Lacey, H. Elton) Conditions under which all the bounded linear maps are compact. *Math. Ann.* 158 (1965), 1-5. (K. Gęba) 30 #3373

(with Arterburn, David) Projections in the space of bounded linear operators. *Pacific J. Math.* 15 (1965), 739-746. (R. G. Bartle) 32 #4507

(with Herman, R.) An example concerning reflexivity. *Studia Math.* 28 (1966/67), 289-294. (B. Yood) 35 #5900

Conull and other matrices which sum a bounded divergent sequence. *Amer. Math. Monthly* 74 (1967), 798-801. (J. Bryant) 36 #3010

An elementary proof of the Eberlein-Šmulian theorem. *Math. Ann.* 172 (1967), 116-118. (M. Rosenfeld) 35 #3419

(with Thorp, Edward) The strong maximum modulus theorem for analytic functions into a Banach space. *Proc. Amer. Math. Soc.* 18 (1967), 640-646. (A. Brown) 35 #5643

The spectral theorem for a normal operator. *Amer. Math. Monthly* 75 (1968), 856-861. (J. B. Deeds) 38 #5040

The size of the unit sphere. *Canad. J. Math.* 20 (1968), 450-455. (R. E. Edwards) 37 #4576

Extreme points in subalgebras of functions vanishing at infinity. *Studia Math.* 32 (1969), 65-72. (D. R. Wilken) 39 #468

(with Finkelstein, Mark) Local and global subordination theorems for vector-valued analytic functions. *Trans. Amer. Math. Soc.* 144 (1969), 73-76. (R. H. Cox) 40 #4469

(with Thorp, Edward) Poincaré's conjecture and the distribution of digits in tables. *Compositio Math.* 23 (1971), 233-250. (H. G. Meijer) 44 #5281

(with Thorp, Edward) Partially bounded sets of infinite width. *J. Reine Angew. Math.* 248 (1971), 117-122. (D. G. Larman) 43 #5291

Whitlock, H. Ian

A composition algebra for multiplace functions. *Math. Ann.* 157 (1964), 167-178. (O. Frink) 30 #3857

(with Menger, Karl) Two theorems on the generation of systems of functions. *Fund. Math.* 58 (1966), 229-240. (B. Schweizer) 34 #2448

Whitlock, J. H.

(with Robson, D. S.) Estimation of a truncation point. *Biometrika* 51 (1964), 33-39. (A. C. Cohen) 31 #5278

Whitman, A. B.

(with DeSilva, C. N.) Thermodynamical theory of directed curves. *J. Mathematical Phys.* 12 (1971), 1603-1609. (P. P. Teodorescu) 44 #5011

Whitman, Andrew P.

(with Conlon, Lawrence) A note on holonomy. *Proc. Amer. Math. Soc.* 16 (1965), 1046-1051. (J. A. Wolf) 32 #1641

Whitman, David G.

Some remarks on regular local rings. *Math. Japon.* 15 (1970), 15-17. (M. Nagata) 43 #1971

On the multiplicity of an integral extension of a local ring. *Proc. Amer. Math. Soc.* 25 (1970), 145-146. (E. H. Batho) 42 #26

On ring theoretic lattice modules. *Fund. Math.* 70 (1971), *no.* 3, 221-229. (J. A. Johnson) 44 #6678

Whitmer, R. F.

(with Barrett, E. B.; Tetenbaum, S. J.) Nonlinear interaction of an electromagnetic wave with a plasma layer in the presence of a static magnetic field. III. Theory of mixing. *Phys. Rev.* (2) 135 (1964), A369-A373. (K. C. Westfold) 29 #6882

(with Tetenbaum, S. J.; Barrett, E. B.) Nonlinear interaction of an electromagnetic wave with a plasma layer in the presence of a static magnetic field. IV. Experiemtal results. *Phys. Rev.* (2) 135 (1964), A374-A381. (K. C. Westfold) 29 #6883

Whitney, E. L.

Estimates of weights in Gauss-type quadrature. *Math. Comp.* 19 (1965), 277-286. (J. C. P. Miller) 34 #2186

Loewner's equation and Grunsky's inequalities. *J. Analyse Math.* 18 (1967), 377-388. (K. W. Lucas) 37 #1586

Whitney, Hassler

Local properties of analytic varieties. *Differential and Combinatorial Topology (A Symposium in Honor of Marston Morse), pp.* 205-244. *Princeton Univ. Press, Princeton, N. J.,* 1965. (L. Bungart) 32 #5924

Tangents to an analytic variety. *Ann. of Math.* (2) 81 (1965), 496-549. (H. Cartan) 33 #745

The mathematics of physical quantities. I. Mathematical models for measurement. *Amer. Math. Monthly* 75 (1968), 115-138. (S. Priess-Crampe) 37 #3803a

The mathematics of physical quantities. II. Quantity structures and dimensional analysis. *Amer. Math. Monthly* 75 (1968), 227-256. (S. Priess-Crampe) 37 #3803b

Whitney, James C.

Finite difference methods for the Fokker-Planck wquation. *J. Computational Phys.* 6 (1970), 483-509. 42 #8709

Whitney, Raymond E.

Extensions of recurrence relations. *Fibonacci Quart.* 4 (1966), 37-42. (H. Gupta) 36 #5076

Composition of recursive formulae. *Fibonacci Quart.* 4 (1966), 363-366. (R. L. Goodstein) 34 #5743

A property of linear recursion relations. *Fibonacci Quart.* 5 (1967), 281-285. (V. M. Bhise) 36 #6373

Planar incidence geometries with two points per line. *Math. Mag.* 40 (1967), 265-267. 36 #5797

On a class of difference equations. *Fibonacci Quart.* 8 (1970), *no.* 5, 470-475. (R. Finkelstein) 43 #4757

Whitney, T. M.

(with Meany, R. K.) Two algorithms related to the method of steepest descent. *SIAM J. Numer. Anal.* 4 (1967), 109-118. (M. Lotkin) 35 #5125

Whitt, Ward

(with Iglehart, Donald L.) Multiple channel queues in heavy traffic. I. *Advances in Appl. Probability* 2 (1970), 150-177. (D. J. Daley) 42 #1237

(with Iglehart, Donald L.) Multiple channel queues in heavy traffic. II. Sequences, networks, and batches. *Advances in Appl. Probability* 2 (1970), 355-369. (D. J. Daley) 43 #8154

Multiple channel queues in heavy traffic. III. Random server selection. *Advances in Appl. Probability* 2 (1970), 370-375. (D. J. Daley) 43 #8155

Weak convergence of probability measures on the function space $C[0, \infty]$. *Ann. Math. Statist.* 41 (1970), 939-944. (S. J. Taylor) 41 #6259

Whittaker, Edmund T.

* (with Watson, G. N.) A course of modern analysis. An introduction to the general theory of infinite processes and of analytic functions; with an account of the principal transcendental functions. Fourth edition. Reprinted. *Cambridge University Press, New York,* 1962. vii + 608 *pp.* (Editors) 31 #2375

* (with Robinson, G.) The calculus of observations: An indtoduction to numerical analysis. Fourth edition. *Dover Publications, Inc., New York,* 1967. xiv + 397 *pp. (1 foldout)* (Editors) 38 #1807

Whittaker, J.-M.

* Interpolatory function theory. Cambridge Tracts in Mathematics and Mathematical Physics, No. 33. *Stechert-Hafner, Inc., New York,* 1964. v + 107 *pp.* (Editors) 32 #2798

The basis of Vitali's theorem. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 353-357. *Ohio Univ. Press, Athens, Ohio,* 1970. (J. H. Curtiss) 43 #2200

An inequality involving derivatives. *Bull. London Math. Soc.* 2 (1970), 297-300. (J. D. Buckholtz) 43 #488

Whittaker, James V.

A mountain-climbing problem. *Canad. J. Math.* 18 (1966), 873-882. (A. M. Bruckner) 33 #4208

Some normal subgroups of homeomorphisms. *Trans. Amer. Math. Soc.* 123 (1966), 88-98. (H. R. Gluck) 33 #707

Multiply transitive groups of transformations. *Pacific J. Math.* 23 (1967), 189-207. (R. F. Dickman, Jr.) 36 #870

Whittemore, Alice

(with Cossey, John) On the Frattini subgroup. *Proc. Amer. Math. Soc.* 21 (1969), 699-702. (K. W. Gruenberg) 39 #2851 (E)

On the Frattini subgroup. *Trans. Amer. Math. Soc.* 141 (1969), 323-333. (C. Y. Tang) 39 #6993

(with Cossey, John) Addendum to "On the Frattini subgroup". *Proc. Amer. Math. Soc.* 27 (1971), 63-64. (K. W. Gruenberg) 42 #4639

Whitten, R. C.

Potentials for three-body systems. *J. Mathematical Phys.* 10 (1969), 1631-1634. (Author's summary) 40 #1100

Whitten, W. C., Jr.

A pair of non-invertible links. *Duke Math. J.* 36 (1969), 695-698. (H. Terasaka) 40 #6532

Symmetries of links. *Trans. Amer. Math. Soc.* 135 (1969), 213-222. (C. H. Giffen) 39 #3480

Some intricate noninvertible links. *Bull. Amer. Math. Soc.* 76 (1970), 1100-1102. (H. E. Debrunner) 41 #9237

On noninvertible links with invertible proper sublinks. *Proc. Amer. Math. Soc.* 26 (1970), 341-346. (H. E. Debrunner) 41 #9238

Some intricate noninvertible links. *Michigan Math. J.* 18 (1971), 55-60. (R. J. Daverman) 43 #6910

Surgically transforming links into noninvertible knots. *Bull. Amer. Math. Soc.* 78 (1972), 99-103. (R. H. Fox) 44 #4733

Whittinghill, Maurice

(with Potthoff, Richard F.) Testing for homogeneity. I. The binomial and multinomial distributions. *Biometrika* 53 (1966), 167-182. (S. W. Nash) 35 #7471

(with Potthoff, Richard F.) Testing for homogeneity. II. The Poisson distribution. *Biometrika* 53 (1966), 183-190. (S. W. Nash) 35 #7472

Whittington, J. E.

On the fixpoints of entire functions. *Proc. London Math. Soc.* (3) 17 (1967), 530-546. (I. N. Baker) 35 #5616

Whittle, Peter

Quadratic forms in Poisson and multinomial variables. *J. Austral. Math. Soc.* 1 (1959/60), 233-240. (H. O. Pollak) 30 #4311.

Topographic correlation, power-law covariance functions, and diffusion. *Biometrika* 49 (1962), 305-314. (H. Wold) 31 #5305

Stochastic processes in several dimensions. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 974-994. (I. J. Good) 30 #3500

Some general results in sequential analysis. *Biometrika* 51 (1964), 123-141. (J. Kiefer) 30 #3556

A branching process in which individuals have variable lifetimes. *Biometrika* 51 (1964), 262-264. (E. A. Robinson) 30 #2558

Some general results in sequential design. (With discussion) *J. Roy. Statist. Soc. Ser. B* 27 (1965), 371-394. (S. S. Gupta) 34 #2133

Recursive relations for predictors of non-stationary processes. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 523-532. (E. J. Hannan) 33 #3429

Statistical processes of aggregation and polymerization. *Proc. Cambridge Philos. Soc.* 61 (1965), 475-495. (J. A. McLennan) 31 #3151

The deterministic stochastic transition in control processes and the use of maximum and integral transforms. *Proc. Fifth Berkeley Sympos. Mathematical Statistics and Probability (Berkeley, Calif.,* 1965/66), *Vol. III: Physical Sciences, pp.* 217-227. *Univ. California Press, Berkeley, Calif.,* 1967. (H. J. Kushner) 38 #3069

(with Lane, R. O. D.) A class of situations in which a sequential estimation procedure is non-sequential. *Biometrika* 54 (1967), 229-234. (L. J. Gleser) 36 #2260

Equilibrium distributions for an open migration process. *J. Appl. Probability* 5 (1968), 567-571. (P. M. Lee) 39 #7689

Sequential decision processes with essential unobservables. *Advances in Appl. Probability* 1 (1969), 271-287. (H. L. Seal) 40 #6681

A view of stochastic control theory. Symposium on Control Theory. *J. Roy. Statist. Soc. Ser. A* 132 (1969), 320-334. (G. M. Ewing) 40 #8462

(See also Discussion of the papers by Dr. Wishart, Professor Whittle and Dr. Bather, 40 #8464)

Refinements of Kolmogorov's inequality. (Russian summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 315-317. (D. S. Adorno) 39 #7657

* Probability. *Penguin Books, Baltimore, Md.,* 1970. 239 *pp.* (Bernard Harris) 42 #2511

Whittlesey, E. F.

Analytic functions in Banach spaces. *Proc. Amer. Math. Soc.* 16 (1965), 1077-1083. (A. E. Taylor) 32 #1566

Whittlesey, John R. B.

A comparison of the correlational behavior of random number generators for the IBM 360. *Comm. ACM* 11 (1968), 641-644. (R. R. Coveyou) 40 #8218

Whitworth, William Allen

(See Irwin, J. O., 35 # 5019)

Wholey, Joseph S.

Persistence and Herbrand expansions. *J. Symbolic Logic* 28 (1963), 280-282. (H. J. Keisler) 30 #3837

Whyburn, Clifton T.

The second smallest quadratic non-residue. *Duke Math. J.* 32 (1965), 519-528. (L. Carlitz) 31 #4759

A note on addition chains. *Proc. Amer. Math. Soc.* 16 (1965), 1134. (Editors) 31 #4752

The density of power residues and non-residues in subintervals of $[1, \sqrt{p}]$. *Acta Arith.* 14 (1967/68), 113-116. (O. P. Stackelberg) 37 #139

An elementary note on character sums. *Duke Math. J.* 37 (1970), 307-310. (O. P. Stackelberg) 41 #5286

The distribution of rth powers in a finite field. *J. Reine Angew. Math.* 245 (1970), 183-187. (H. Kisilevsky) 42 #7634

Whyburn, Gordon Thomas

Developments in topological analysis. *Fund. Math.* 50 (1961/62), 305-318. (W. R. Utz (Zbl 100, 67)) 29 #3651

The Cauchy inequality in topological analysis. *Proc. Nat. Acad. Sci. U.S.A.* 48 (1962), 1335-1336. (D. Gaier (Zbl 108, 71)) 32 #4281

* Analytic topology. American Mathematical Society Colloquium Publications, Vol. XXVIII. *American Mathematical Society, Providence, R. I.*, 1963. x + 280 *pp.* (Editors) 32 #425

* Topological analysis. Second, revised edition. Princeton Mathematical Series, No. 23. *Princeton University Press, Princeton, N. J.*, 1964. xii + 125 *pp.* (P. Porcelli) 29 #2758

On compactness of mappings. *Proc. Nat. Acad. Sci. U.S.A.* 52 (1964), 1426-1431. (L. Fourès) 31 #722

Directed families of sets and closedness of functions. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 688-692. (Ky Fan) 32 #435

Continuity of multifunctions. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 1494-1501. (R. E. Smithson) 32 #6423

Compactification of mappings. *Math. Ann.* 166 (1966), 168-174. (P. T. Church) 34 #791

Connectivity of peripherally continuous functions. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 1040-1041. (R. H. Rosen) 33 #4902

Loosely closed sets and partially continuous functions. *Michigan Math. J.* 14 (1967), 193-205. (E. Duda) 34 #8387

Quasi-closed sets and fixed points. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 201-205. (S. Mardešić) 35 #1006

What is a curve? *Studies in Modern Topology*, pp. 23-38. *Math. Assoc. Amer. (distributed by Prentice-Hall, Englewood Cliffs, N. J.)*, 1968. (M. L. Marx) 37 #895

Retracting multifunctions. *Proc. Nat. Acad. Sci. U.S.A.* 59 (1968), 343-348. (T. A. Botts) 37 #3543

Cut points in general topological spaces. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 380-387. (S. Armentrout) 39 #3463

Inward motions in connected spaces. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 271-274. (P. T. Church) 41 #9225

Dynamic topology. *Amer. Math. Monthly* 77 (1970), 556-570. (P. T. Church) 41 #9226

Accessibility spaces. *Proc. Amer. Math. Soc.* 24 (1970), 181-185. (E. Halfar) 40 #1973

(See also Proceedings of the Conference on Monotone Mappings and Open Mappings, First, 43 #1146; General topology and its relations to modern analysis and algebra, 43 #5474; and Floyd, E. E. and Jones, F. B., 42 #1639)

Functional movements in dendritic structures. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur, 1968), pp.* 319-327. *Academia, Prague,* 1971. (J. Dugundji) 43 #5496

Cohesive spaces and fixed points. *General Topology and its Relations to Modern Analysis and Algebra, III (Proc. Conf., Kanpur, 1968), pp.* 311-317. *Academia, Prague,* 1971. (J. Dugundji) 43 #5518

Whyburn, Kenneth

A nontopological 1-1 mapping onto E^3. *Bull. Amer. Math. Soc.* 71 (1965), 533-537. (J. R. Isbell) 30 #5277

Differentiable cohomology on locally compact groups. *Proc. Math. Acad. Sci. U.S.A.* 67 (1970), 45-51. (Deane Montgomery) 42 #994

Wiatrowska, L.

(with Nitka, W.) Linearity in the Minkowski space with non-strictly convex spheres. *Colloq. Math.* 20 (1969), 113-115. (L. M. Kelly) 39 #2070

Wiatrowski, Paweł

* Limitation exacte du module de la dérivée logarithmique dans la famille des fonctions univalentes bornées. Societas Scientiarum Lodziensis, Sect. III, Nr. 63. *Państwowe Wydawnictwo Naukowe, Łódź,* 1960. 60 *pp.* (F. R. Keogh) 33 #4273

On the radius of convexity of some family of functions regular in the ring $0 < |z| < 1$. *Ann. Polon. Math.* 25 (1971), 85-98. (J. W. Noonan) 44 #4201

Wiberg, Donald M.

Nonexistence of solutions to the Riccati equation. *IEEE Trans. Automatic Control* AC-14 (1969), 409-410. (Author's summary) 40 #2942

Reduction of time-varying linear systems to controllable and observable form. *Internat. J. Control* (1) 11 (1970), 909-915. (S. Leela) 42 #8995

Wichern, Dean W.

(with Hill, William J.; Hunter, William G.) A joint design criterion for the dual problem of model discrimination and parameter estimation. *Technometrics* 10 (1968), 145-160. (H. L. Seal) 36 #4732

Wichman, Michael

The width of a module. *Canad. J. Math.* 22 (1970), 102-115. (D. Kirby) 41 #5345

Wichmann, Eyvind H.

Density matrices arising from incomplete measurements. *J. Mathematical Phys.* 4 (1963), 884-896. (Author's summary) 29 #4523

(with Landau, Lawrence J.) On the translation invariance of local internal symmetries. *J. Mathematical Phys.* 11 (1970), 306-311. (M. Glück) 41 #1330

Wichs, Tomáš

On minimal semirigid relations. *Comment. Math. Univ. Carolinae* 12 (1971), 359-365. (E. M. Palmer) 44 #1583

Wichterle, Karel

Relations between the $\mathfrak{Y}$-completeness and the paracompactness of closure spaces. *Comment. Math. Univ. Carolinae* 9 (1968), 583-593. (D. C. Kent) 39 #6258

On $\mathfrak{B}$-convergence spaces. (Loose Russian summary) *Czechoslova Math. J.* 18(93) (1968), 569-588. (D. C. Kent) 39 #2116

Wichura, Michael J.

Inequalities with applications to the weak convergence of random processes with multi-dimensional time parameters. *Ann. Math. Statist.* 40 (1969), 681-687. (C. G. Esseen) 39 #7663

On the construction of almost uniformly convergent random variables with given weakly convergent image laws. *Ann. Math. Statist.* 41 (1970), 284-291. (H. G. Tucker) 42 #1182

Wick, Gian Carlo

(with Lee, T. D.) Space inversion, time reversal, and other discrete symmetries in local field theories. *Phys. Rev.* (2) 148 (1966), 1385-1404. (Y. Aharonov) 37 #3816

Discrete symmetries problems. *High Energy Phys. Theory Elem. Particles (Internat. School Theoret. Phys., Yalta,* 1966) *(Russian), pp.* 227-236. *"Naukova Dumka", Kiev,* 1967. (H. M. Goldberg) 37 #3817

Wick, Joachim

Über eine Integralgleichung vom Abelschen Typ. *Z. Angew. Math. Mech.* 48 (1968), T39-T41. (E. Gesztelyi) 41 #4163

Wicke, Howard H.

(with Worrell, J. M., Jr.) Characterizations of developable topological spaces. *Canad. J. Math.* 17 (1965), 820-830. (C. E. Burgess) 32 #427

(with Worrell, J. M., Jr.) Opencontinuous mappings of spaces having bases of countable order. *Duke Math. J.* 34 (1967), 255-271 (E. Michael) 35 #979 (E)

(with Worrell, J. M., Jr) Errata to: "Open continuous mappings of spaces having bases of countable order". *Duke Math. J.* 34 (1967), 813-814. (Editors) 35 #7309

The regular open continuous images of complete metric spaces. *Pacific J. Math.* 23 (1967), 621-625. (E. Michael) 36 #2118

On the Hausdorff open continuous images of Hausdorff paracompact p-spaces. *Proc. Amer. Math. Soc.* 22 (1969), 136-140. (B. J. Ball) 39 #4801

(with Worrell, J. M., Jr.) Extension of a result of Dieudonné. *Proc. Amer. Math. Soc.* 25 (1970), 634-637. (J. P. Ferrier) 41 #9197

Open continuous images of certain kinds of M-spaces and completeness of mappings and spaces. *General Topology and Appl.* 1 (1971), *no.* 1, 85-100. (R. F. Dickman, Jr.) 43 #8060

Wickens, N. R.

The consistency and efficiency of generalized least squares in simultaneous equation systems with autocorrelated errors. *Econometrica* 37 (1969), 651-659. 42 #3899

Wickless, William J.

Quasi-isomorphism and TFM rings. *Pacific J. Math.* 27 (1968), 633-639. (H. K. Farahat) 38 #5843

A characterization of the nil radical of a ring. *Pacific J. Math.* 35 (1970), 255-258. (A. G. Heinicke) 42 #7693

Rings with the contraction property. *Proc. Amer. Math. Soc.* 27 (1971), 57-60. (J. E. Whitesitt) 42 #1856

Widder, David Vernon

A problem of Kampé de Fériet. *J. Math. Anal. Appl.* 9 (1964), 458-467. (R. V. Churchill) 34 #8107

(with Hirschman, I. I., Jr.) The Laplace transform, the Stieltjes transform and their generalizations. *Studies in Real and Complex Analysis, pp.* 67-89. *Math. Assoc. Amer. (distributed by Prentice-Hall, Englewood Cliffs, N. J.)*, 1965. (Editors) See 32 #1080

* (with Hirschman, I. I.) La transformation de convolution. Traduit de l'Anglais par B. Pénicaut. *Gauthier-Villars &* C^{ie}, *Editeur-Imprimeur, Paris,* 1965. xi + 293 *pp.* (Editors) 32 #1511

(with Dauns, John) Convolution transforms whose inversion functions have complex roots. *Pacific J. Math.* 15 (1965), 427-442. (I. I. Hirschman, Jr.) 32 #324

Fourier cosine transforms whose real parts are non-negative in a strip. *Proc. Amer. Math. Soc.* 16 (1965), 1246-1252. (G. Doetsch) 32 #1507

Some analogies from classical analysis in the theory of heat conduction. *Arch. Rational Mech. Anal.* 21 (1966), 108-119. (Editors) 32 #2031

A transform related to the Poisson integral for a half-plane. *Duke Math. J.* 33 (1966), 355-362. (I. I. Hirschman, Jr.) 33 #514

Inversion of a heat transform by use of series. *J. Analyse Math.* 18 (1967), 389-413. (D. T. Haimo) 35 #2088

(See also Birkhoff, George David, 38 #4271a, 38 #4271b and 38 #4271c)

Expansions in terms of the homogeneous solutions of the heat equation. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill, 1967), pp.* 171-196. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (D. T. Haimo) 41 #2233

(with Pollard, H.) Gaussian representations related to heat conduction. *Arch. Rational Mech. Anal.* 35 (1969), 253-258. (D. T. Haimo) 39 #7356

Expansions in series of homogeneous temperature functions of the first and second kinds. *Duke Math. J.* 36 (1969), 495-509. (I. I. Hirschman, Jr.) 40 #4704

(with Pollard, Harry) Inversion of a convolution transform related to heat conduction. *SIAM J. Math. Anal.* 1 (1970), 527-532. (D. T. Haimo) 43 #824

idiger, Alfred

(with Kertész, A.) Artinsche Ringe mit artinschem Radikal. *J. Reine Angew. Math.* 242 (1970), 8-15. (B. J. Mueller) 41 #6886

idlund, Olof B.

On the stability of parabolic difference schemes. *Math. Comp.* 19 (1965), 1-13. (W. G. Strang) 30 #717

On the rate of convergence of an alternating direction implicit method in a noncommutative case. *Math. Comp.* 20 (1966), 500-515. (RŽMat 1967 #4 B572) 37 #7104

Stability of parabolic difference schemes in the maximum morm. *Numer. Math.* 8 (1966), 186-202. (A. O. Garder, Jr.) 33 #5149

On difference methods for parabolic equations and alternating direction implicit methods for elliptic equations. *IBM J. Res. Develop.* 11 (1967), 239-243. (J. H. Bramble) 36 #7356

A note on unconditionally stable linear multistep methods. *Nordisk Tidskr. Informations-Behandling* 7 (1967), 65-70. (T. E. Hull) 35 #6373

On the effects of scaling of the Peaceman-Rachford method. *Conf. on Numerical Solution of Differential Equations (Dundee, 1969), pp.* 113-132. *Springer, Berlin,* 1969. (D. M. Young, Jr.) 44 #1245

On the rate of convergence for parabolic difference schemes. I. *Numerical Solution of Field Problems in Continuum Physics (Proc. Sympos. Appl. Math., Durham, N. C., 1968), SIAM-AMS Proc., Vol. II, pp.* 60-73. *Amer. Math. Soc., Providence, R. I.,* 1970. (Gilbert Strang) 41 #9458a

On the rate of convergence for parabolic difference schemes. II. *Comm. Pure Appl. Math.* 23 (1970), 79-96. (Gilbert Strang) 41 #9458b

(with Kreiss, H. O.; Thomée, V.) Smoothing of initial data and rates of convergence for parabolic difference equations. *Comm. Pure Appl. Math.* 23 (1970), 241-259. (Gilbert Strang) 40 #5160

On Lax's theorem on Friedrichs type finite difference schemes. *Comm. Pure Appl. Math.* 24 (1971), 117-123. (J. Ll. Morris) 43 #1446

idman, Kjell-Ove

On the boundary values of harmonic functions in R^3. *Ark. Mat.* 5, 221-230 (1964). (E. C. Schlesinger) 34 #1544

On the boundary behavior of solutions to a class of elliptic partial differential equations. *Ark. Mat.* 6, 485-533 (1967). (R. Beals) 36 #2949

Inequalities for the Green function and boundary continuity of the gradient of solutions of elliptic differential equations. *Math. Scand.* 21 (1967), 17-37 (1968). (M. Wachman) 39 #621

A quantitative form of the maximum principle for elliptic partial differential equations with coefficients in L_∞. *Comm. Pure Appl. Math.* 21 (1968), 507-513. (Z. C. Motteler) 38 #1389

On the Hölder continuity of solutions of elliptic partial differential equations in two variables with coefficients in L_∞. *Comm. Pure Appl. Math.* 22 (1969), 669-682. (C. A. Swanson) 40 #4594

On the preceding paper by Jäger. *Arch. Rational Mech. Anal.* 37 (1970), 29-32. (A. Haimovici) 40 #7401

idom, B.

On the radial distribution function in fluids. *J. Chem. Phys.* 41 (1964), 74-77. (Author's summary) 29 #1022

idom, Harold

Asymptotic behavior of the eigenvalues of certain integral equations. II. *Arch. Rational Mech. Anal.* 17 (1964), 215-229. (J. Chover) 29 #6270

On the spectrum of a Toeplitz operator. *Pacific J. Math.* 14 (1964), 365-375. (A. Devinatz) 29 #476

Toeplitz matrices. *Studies in Real and Complex Analysis, pp.* 179-209. *Math. Assoc. Amer. (distributed by Prentice-Hall, Englewood Cliffs, N. J.),* 1965. (Editors) 32 #1080

Toeplitz operators on H_p. *Pacific J. Math.* 19 (1966), 573-582. (P. L. Duren) 34 #1859

(with Wilf, Herbert) Small eigenvalues of large Hankel matrices. *Proc. Amer. Math. Soc.* 17 (1966), 338-344. (C. G. Cullen) 32 #6664 (E)

Hankel matrices. *Trans. Amer. Math. Soc.* 121 (1966), 1-35. (C. R. Putnam) 32 #4553

Polynomials associated with measures in the complex plane. *J. Math. Mech.* 16 (1967), 997-1013. (M. Zedek) 35 #346

Norm inequalities for entire functions of exponential type. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill., 1967), pp.* 143-165. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (A. Baillette) 38 #4682

(with Wilf, Herbert) Errata to: "Small eigenvalues of large Hankel matrices". *Proc. Amer. Math. Soc.* 19 (1968), 1508. (Editors) 37 #7081

* Lectures on integral equations. Notes by David Drazin and Anthony J. Tromba. Van Nostrand Mathematical Studies, No. 17. *Van Nostrand; Reinhold Co., New York-Toronot, Ont.-London,* 1969. iv + 124 pp. (K. Wiener) 39 #4621; erratum, 40, p. 1706

Extremal polynomials associated with a system of curves in the complex plane. *Advances in Math.* 3, 127-232 (1969). (R. C. Buck) 39 #418

On some extremal quantities associated with unbounded sets in the plane. *J. Math. Mech.* 19 (1969/70), 439-449. (M. A. Akcoglu) 40 #7470

(with Douglas, R. G.) Toeplitz operators with locally sectorial symbols. *Indianan Univ. Math. J.* 20 (1970/71), 385-388. (M. J. Fisher) 41 #9024

An inequality for rational functions. *Proc. Amer. Math. Soc.* 24 (1970), 415-416. (H. Kober) 40 #5828

The maximum principle for multiple-valued analytic functions. *Acta Math.* 126 (1971), 63-82. (G. G. Weill) 43 #5034

$\mathcal{H}_p$ sections of vector bundles over Riemann surfaces. *Ann. of Math.* (2) 94 (1971), 304-324. (H. Wu) 44 #5976

The strong Szegö limit theorem for circular arcs. *Indiana Univ. Math. J.* 21 (1971/72), 277-283. (I. I. Hirschman, Jr.) 44 #5693

Wiebe, Hartmut

(with Scheja, Günter) Über die Divisorenklassengruppen lokaler Ringe auf zweidimensionalen normalen Hyperflächen. *Math. Ann.* 172 (1967), 229-237. (H. Röhrl) 37 #4067

Über homologische Invarianten lokaler Ringe. *Math. Ann.* 179 (1969), 257-274. (Tor Holtedahl Gulliksen) 41 #192

Więckowski, Józef

The extremum problem of a certain linear functional with one-side lateral condition and its interpretation in ship mechanics. (Polish. Russian and English summaries) *Rozprawy Inż.* 12 (1964), 399-427. (A. Alexiewicz) 34 #652

Estimation of the linear parameters of a ship in a certain set of loads. (Polish. Russian and English summaries) *Rozprawy Inż.* 14 (1966), 93-115. (R. M. Evan-Iwanowski) 33 #5164

On abstract linearization of some systems of difference and ordinary differential equations. (Polish. Russian and English summaries) *Prace Inst. Maszyn Przepływowych* 35 (1967), 3-48. (D. Przeworska-Rolewicz) 39 #514

Criteria for the existence of solutions to the problem of retardation in a linear system with a finite number of degrees of freedom. (Polish. Russian and English summaries) *Prace Inst. Maszyn Prezepływowych* 45 (1969), 109-127. (From the author's summary) 41 #6591

Wieczorek, E.

(with Kaschluhn, F.) Nonuniqueness in the *S*-matrix reduction by means of the asymptotic condition. I. (Italian summary) *Nuovo Cimento* (10) 32 (1964), 1202-1216. (H. Lustig) 30 #863

Wieczorek, Zbigniew

The ranges of values of the functionals $\log(f(z)/z)$ and $\log[\{f(z_2)/z_2\} / \{f(z_1)/z_1\}]$ in certain classes of starlike functions. (Polish. French summary) *Zeszyty Nauk. Uniw. Łódzk. Nauki Mat. Przyrod. Ser. II Zeszyt* 34 (1969), 73-86. (R. J. Libera) 41 #8651

Wiegand, Roger

The cohomological dimension of Stone spaces. *Bull. Amer. Math. Soc.* 74 (1968), 944-945. (J. P. May) 37 #6355

Some topological invariants of Stone spaces. *Michigan Math. J.* 16 (1969), 289-296. (O. A. Laudal) 42 #1116

Sheaf cohomology of locally compact totally disconnected spaces. *Proc. Amer. Math. Soc.* 20 (1969), 533-538. (S. Y. Husseini) 40 #6539

Endomorphism rings of ideals in commutative regular ring. *Proc. Amer. Math. Soc.* 23 (1969), 442-449. (W. H. Caldwell) 40 #7245

Wiegandt, Richard

Über linear kompakte reguläre Ringe. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 445-446. (A. Sade) 32 #4163

Über transfinit nilpotente Ringe. *Acta Math. Acad. Sci. Hungar.* 17 (1966), 101-114. (F. W. Anderson) 34 #210

Investigations in the theory of linearly compact rings. I, II. (Hungarian. German summary) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 16 (1966), 239-267; *ibid.* 16 (1966), 333-363. (S. Lajos) 38 #5865

Über halbeinfache linear kompakte Ringe. *Studia Sci. Math. Hungar.* 1 (1966), 31-38. (J. G. Horne) 34 #5885

Über lokal linear kompakte Ringe. *Acta Sci. Math. (Szeged)* 28 (1967), 255-260. (M. E. Shanks) 36 #3834

(with Steinfeld, O.) Über die Verallgemeinerungen und Analoga der Wedderburn-Artinschen und Noetherschen Struktursätze. *Math. Nachr.* 34 (1967), 143-156. (P. Abellanas) 36 #1495

Radical and semi-simplicity in categories. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 345-364. (H.-J. Hoehnke) 38 #5882

On compact objects in categories. *Publ. Math. Debrecen* 15 (1968), 267-281. (H. Gonshor) 38 #4546

(with Szász, F.) On the dualization of subdirect embeddings. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 289-302. (C. Năstăsescu) 40 #2739

A note on Kurosh-Amitsur radical properties. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 63-65. (E. P. Armendariz) 41 #255

(with Szász, F.) On the duality of radical and semi-simple objects in categories. *Acta Math. Acad. Sci. Hungar.* 21 (1970), 175-182. (S. A. Amitsur) 41 #8491

On the socle of an object in categories. *Acta Sci. Math. (Szeged)* 31 (1970), 245-251. (J. S. Alin) 43 #3326

On subdirect embeddings in categories. *Fund. Math.* 68 (1970), 7-12. (H. Gonshor) 41 #6938

Wieghardt, Karl

* Theoretische Strömungslehre: Eine Einführung. Leitfäden der angewandten Mathematik und Mechanik, Band 4. *B. G. Teubner Verlagsgesellschaft, Stuttgart,* 1965. 226 *pp.* (W. O. Criminale, Jr.) 32 #3374

Wiegmann, Fritz

(See Andronov, A. A.; Vitt, A. A.; Haĭkin, S. È., 39 #2373)

Wiegmann, Klaus-Werner

Einbettungen komplexer Räume in Zahlenräume. *Invent. Math.* 1 (1966), 229-242. (R. Nirenberg) 36 #6652

Über quotienten holomorph-konvexer komplexer Räume. *Math. Z.* 97 (1967), 251-258. (R. C. Gunning) 35 #5662

Ein holomorph-separabler komplexer Raum muß nicht holomorph-regulär sein. *Enseignement Math.* (2) 14 (1968), 283-284 (1970). (N. Kuhlmann) 41 #8709

Strukturen auf Quotienten komplexer Räume. *Comment. Math. Helv.* 44 (1969), 93-116. (N. Kuhlmann) 39 #3032

Einige Eigenschaften endlich-dicht-erzeugter holomorpher Algebren. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 749-759. (O. Forster) 42 #546

Zur Unabhängigkeit der charakteristischen Bedingungen für komplexe Unterstrukturen. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 935-945. (W. Thimm) 43 #3500

Wiegmann, N. A.

Quasi-normal matrices and products. *J. Austral. Math. Soc.* 11 (1970), 329-339. (G. E. Wall) 42 #1842

Wiegner, Adam

(See Batóg, Tadeusz, 39 #1280)

Wiegold, E. C.

(with Neumann, B. H.) A semigroup representation of varieties of algebras. *Colloq. Math.* 14 (1966), 111-114. (C. Y. Chao) 33 #211

Wiegold, James

(with Newman, M. F.) Groups with many nilpotent subgroups. *Arch. Math.* 15 (1964), 241-250. (Graham Higman) 30 #1183

(with Neumann, Peter M.) Schreier varieties of groups. *Math. Z.* 85 (1964), 392-400. (S. Lipschutz) 30 #1167

Multiplicators and groups with finite central factor-groups. *Math. Z.* 89 (1965), 345-347. (B. H. Neumann) 31 #3510

Soluble embeddings of group amalgams. *Publ. Math. Debrecen* 12 (1965), 227-230. (R. R. Struik) 33 #195

Transitive subgroups of transitive p-groups. *Math. Z.* 96 (1967), 294-295. (F. Haimo) 34 #5912

(with Neumann, Peter M.; Sims, Charles C.) Counterexamples to a theorem of Cauchy. *J. London Math. Soc.* 43 (1968), 234. (D. Livingstone) 38 #5906

Periodic series. *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 81-82. (M. F. Newman) 38 #5934

Schunk classes are nilpotent product closed. *Bull. Austral. Math. Soc.* 1 (1969), 27-28. (R. Schmidt) 40 #1478

Ext(Q, Z) is the additive group of real numbers. *Bull. Austral. Math. Soc.* 1 (1969), 341-343. (J. Rotman) 41 #1841

Commutator subgroups of finite p-groups. *J. Austral. Math. Soc.* 10 (1969), 480-484. (R. Göbel) 41 #3606

(with Leedham-Green, C. R.; Neumann, Peter M.) The breadth and the class of a finite p-group. *J. London Math. Soc.* (2) 1 (1969), 409-420. (M. F. Newman) 39 #6987

(with Dey, I. M. S.) Generators for alternating and symmetric groups. *J. Austral. Math. Soc.* 12 (1971), 63-68. (Morris Newman) 43 #6300

Some groups with non-trivial multiplicators. *Math. Z.* 120 (1971), 307-308. (H. Bechtell) 44 #4101

The multiplicator of a direct product. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 103-105. (C. Y. Tang) 44 #1738

Wieladek, Romuald

A propositional calculus without the law of extensionality. (Polish. English and Russian summaries) *Studia Logica* 24 (1969), 187-208. 40 #2519

Wielandt, Helmut W.

Gedanken für eine allgemeine Theorie der Permutationsgruppen. *Univ. e Politec. Torino Rend. Sem. Mat.* 21 (1961/62), 31-39. (G. G. Zacher) 30 #2060

* Finite permutation groups. Translated from the German by R. Bercov. *Academic Press, New York-London,* 1964. x + 114 *pp.* (N. Ito) 32 #1252

On the structure of composite groups. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 379-388. *Gordon and Breach, New York,* 1967. (O. H. Kegel) 36 #266

On automorphisms of doubly transitive permutation groups. *Proc. Internat. Conf. Theory of Groups (Canberra, 1965), pp.* 389-393. *Gordon and Breach, New York,* 1967. (K. Strambach) 36 #258

Endliche k-homogene Permutationsgruppen. *Math. Z.* 101 (1967), 142. (D. Livingstone) 36 #257

(with Brualdi, Richard A.) A spectral characterization of stochastic matrices. *Linear Algebra and Appl.* 1 (1968), *no.* 1, 65-71. (J. G. Mauldon) 36 #6435

Factors of groups. *Symposia Mathematica (INDAM, Rome,* 1967/68), Vol. 1, *pp.* 187-194. *Academic Press, London,* 1969. (J. H. Walter) 39 #5682

Permutation representations. *Illinois J. Math.* 13 (1969), 91-94. (D. Wales) 38 #3364

Wieleitner, Heinrich

* История математики от Декарта до середины XIX столетия. (Russian) [History of mathematics from Descartes to the middle of the nineteenth centruy] Second edition. Translation from the German edited by A. P. Juškevič. *Izdat. "Nauka", Moscow,* 1966. 507 *pp.* (Editors) 35 #6

Wiener, Klaus

Lineare Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 11 (1962), 567-580. (A. Erdélyi) 30 #2307

Belastete Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 31-37. (H. Widom) 29 #2618a

Über die Lösung einer Abelschen Integralgleichung mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 39-42. (H. Widom) 29 #2618b

Nichtlineare Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 43-49. (H. Widom) 29 #2618c

Zur Lösung einer partiellen Differentialgleichung vom gemischten Typ. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 12 (1963), 259-264. (H. Hochstadt) 29 #1457

Über ein gemischtes Randwertproblem für die verallgemeinerte Tricomi-Gleichung. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 13 (1964), 55-57. (J. W. Miles) 29 #5007

Über die Lösung Volterrascher Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 13 (1964), 443-447. (P. L. Butzer) 30 #1373

Iterierte Abelsche Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 15 (1966), 635-644. (R. P. Srivastav) 35 #4694a

Über die Lösung einiger Integralgleichungen mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 15 (1966), 645-660. (R. P. Srivastav) 35 #4694b

Zur lösung der Abelschen Integralgleichung mit einem Hadamard-Integral. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 15 (1966), 661-666. (R. P. Srivastav) 35 #4694c

Über Fehlerabschätzungen bei der Lösung von Integralgleichungen mit Hadamard-Integralen unter Verwendung ausgearteter Kerne. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 15 (1966), 667-675. (R. P. Srivastav) 35 #4694d

Integralgleichungen mit Hadamard-Integralen mit festen Singularitäten. *Math. Nachr.* 35 (1967), 75-103. (R. P. Srivastav) 37 #710

Verallgemeinerungen einer Integralgleichung aus der Tragflügeltheorie. *Math. Nachr.* 35 (1967), 117-123. (R. P. Srivastav) 36 #6887

Verallgemeinerungen einer Integralgleichung von Romanovsky. I. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 16 (1967), 79-107. (R. C. MacCamy) 36 #5635

Verallgemeinerungen einer Integralgleichung von Romanovsky. II, III. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 16 (1967), 991-1002; *ibid.* 17 (1968), 485-489. (R. C. MacCamy) 39 #1926

Über nichtlineare Integralgleichungen mit Hadamard-Integralen mit festen Singularitäten. *Math. Nachr.* 36 (1968), 93-108. (R. C. MacCamy) 40 #3229

Über die Lösung nichtlinearer Integralgleichungen mit Hadamard-Integralen. *Math. Nachr.* 36 (1968), 289-309. (I. Fenyő) 37 #4524

Über nichtlineare Integrodifferentialgleichungen mit Hadamard-Integralen. *Math. Z.* 106 (1968), 123-138. (D. H. Hyers) 39 #1927

Über nichtlineare Integralgleichungen mit Hadamard-Integralen mit variablen oberen Grenzen und festen Singularitäten. *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg* M1 (1968/69), 101-110. (R. C. MacCamy) 39 #3265; erratum 39, p. 1594

Über die Lösung unednlicher Systeme nichtlinearer Integralgleichungen mit Hadamard-Integralen mit festen Singularitäten. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 17 (1968), 795-804. (D. H. Hyers) 39 #6037

Über nichtlineare Volterrasche Integralgleichungen und Gleichungssysteme mit Hadamard-Integralen. I. *Wiss. Z. Martin-Luther-Univ. Hall-Wittenberg Math.-Natur. Reihe* 17 (1968), 805-827. (D. H. Hyers) 39 #6038

Über eine Klasse nichtlinearer Integrodifferentialgleichungen mit Hadamard-Integralen mit variablen Singularitäten. *Math. Ann.* 181 (1969), 203-236. (D. H. Sattinger) 40 #666

Über unendliche Systeme nichtlinearer Integralgleichungen mit Hadamard-Integralen. *Math. Nachr.* 40 (1969), 79-109. (D. H. Hyers) 40 #667

Über nichtlineare Integrodifferentialgleichungen mit Hadamard-Integralen mit variablen Singularitäten. *Math. Nachr.* 41 (1969), 253-270. (D. H. Hyers) 40 #3230

Zur Lösung einer nichtlinearen Integrodifferentialgleichung mit Hadamard-Integralen. *Publ. Math. Debrecen* 16 (1969), 245-252. (D. H. Hyers) 42 #802

Über nichtlineare Volterrasche Integralgleichungen und Gleichungssysteme mit Hadamard-Integralen. II. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 18 (1969), 81-93. (D. H. Hyers) 40 #3231

Zur Lösung linearer Integralgleichungen mit Hadamard-Integralen mit festen Singularitäten. *Math. Nachr.* 44 (1970), 351-361. (R. P. Srivastav) 42 #4978

Über die Lösung nichtlinearer Integralgleichungen und Integralgleichungssysteme mit Hadamard-Integralen mit festen Singularitäten. *Math. Nachr.* 46 (1970), 81-96. (D. H. Hyers) 43 #2445

Über ein System nichtlinearer Integrodifferentialgleichungen mit Hadamard-Integralen. *Math. Nachr.* 47 (1970), 283-291. (I. Fenyő) 44 #3099

Über beschränkte Lösungen einer nichtlinearen Integrodifferentialgleichung mit Hadamard-Integralen. *Wiss. Z. Martin-Luther-Univ. Halle-Wittenberg Math.-Natur. Reihe* 19 (1970), *Heft* 4, 101-105. (G. J. Butler) 43 #7897

Über die Lösungen Abelscher Integralgleichungen mit Hadamard-Integralen. *Math. Nachr.* 48 (1971), 335-339. (R. P. Srivastav) 44 #7238

iener, Norbert

(with Della Riccia, Giacomo) Random theory in classical phase space and quantum mechanics. *Analysis in function space, pp.* 3-14. *M.I.T. Press, Cambridge, Mass.*, 1964. (G. Heber) 29 #4420

(with Della Riccia, Giacomo) Random theory in classical phase space and quantum mechanics. *Proc. Conf. on Theory and Appl. of Analysis in Function Space (Dedham, Mass.,* 1963*), pp.* 3-14. *The M.I.T. Press, Cambridge, Mass.*, 1964. (A. Siegel) 32 #3710

* (with Paley, R. E. A. C.) Преобразование Фурье в комплексной области. (Russian) [Fourier transforms in the complex domain] Translated from the English by F. V. Širokov. *Izdat. "Nauka", Moscow*, 1964. 267 *pp.* (Editors) 31 #5038

(See also Selected papers of Norbert Wiener, 32 #3 and Bibliography of Norbert Wiener, 32 #1084)

* Generalized harmonic analysis and Tauberian theorems. *The M. I. T. Press, Cambridge, Mass.-London*, 1966. iv + 242 *pp.* (Editors) 34 #23

(with Della Riccia, Giacomo) Wave mechanics in classical phase space, Brownian motion, and quantum theory. *J. Mathematical Phys.* 7 (1966), 1372-1383. (G. Heber) 34 #7132

* (with Siegel, Armand; Rankin, Bayard; Martin, William Ted) Differential space, quantum systems, and preduction. *The M.I.T. Press, Cambridge, Mass.-London*, 1966. x + 176 *pp.* (M. Loève) 35 #7394

iener, Sister Margaret M.

(with Flatto, Leopold) Regular polytopes and harmonic polynomials. *Canad. J. Math.* 22 (1970), 7-21. (E. Złotkiewicz) 41 #1950

ienholtz, Ernst

(with Hildebrandt, Stefan) Constructive proofs of representation theorems in separable Hilbert space. *Comm. Pure Appl. Math.* 17 (1964), 369-373. (P. R. Halmos) 29 #3881

(with Rohde, Hanns-Walter) Ein Regularitätssatz zur schwachen 2. Randbedingung mit Anwendungen auf elliptische Differentialoperatoren. *Math. Z.* 98 (1967), 9-26. (M. Schechter) 37 #4401

eprzkowicz, Bohdan

The generalized non-linear boundary problem with an oblique derivative investigated by the method of successive approximations. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 235-254. (P. Szeptycki) 38 #1393

Wieringa, J. D.

(with Hugenholtz, N. M.) On locally normal states in quantum statistical mechanics. *Comm. Math. Phys.* 11 (1968/69), 183-197. (H. Ezawa) 40 #3811

Wiertelak, K.

A certain combinatorial problem in the theory of correcting codes. (Polish. English and Russian summaries) *Fasc. Math. No.* 4 (1969), 97-107 (1970). (H. F. Mattson, Jr.) 43 #5990

Wierzbicki, A.

Dispersion of light in multipole media. *Acta Phys. Polon.* 27 (1965), 123-136. (K. C. Westfold) 32 #754

Wierzbicki, Tomasz

A thick-walled elasto-visco-plastic spherical container under stress and displacement boundary value condition. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 297-308. (N. Cristescu) 31 #2908

Impulsive loading of a spherical container with rigid-plastic and strain rate sensitive material. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 775-790. (T. W. Ting) 31 #963

Wiese, Karl-Ernst

(with Blaquière, Augustin; Gérard, Françoise) Construction d'un couple stratégique optimal et calcul de la valeur du jeu dans un jeu multiétage quantitatif par application de la programmation dynamique. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A832-A833. (E. Marchi) 41 #6577

(with Blaquière, Augustin) Construction des ensembles du jeu et des stratègies optimales dans un jeu multiétage qualitatif à deux joueurs. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1055-A1056. (Authors' summary) 41 #3118

(with Blaquière, Augustin) Jeux qualitatifs multiétages à *N* personnes, coalitions. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A1280-A1282. (J. Fichefet) 44 #6344

(with Blaquière, Augustin; Bonnemay-Juricek, L.) Sur la géométrie des surfaces de Pareto d'un jeu différentiel à *N*-joueurs; théorème du maximum. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A1030-A1032. (Authors' summary) 42 #7299

Wiesler, H.

(with Calugareanu, G., Jr.) Remarks on triples in enriched categories. *Bull. Austral. Math. Soc.* 3 (1970), 375-383. (R. Fritsch) 43 #318

Wiesler, Herwart

On convexity for generalized barycentric coordinates. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 369-373. (L. A. Santaló) 32 #4599

Wiesner. Jan

(with Ulehla, Ivan) Remark to the problem of eigenvalues of Schrödinger equation. *Apl. Mat.* 15 (1970), 352-355. (E. Müller-Pfeiffer) 42 #2083

(with Lelek, Vladimīr) The form of discrete spectrum in the case of high simgular potential. (Czech summary) *Apl. Mat.* 16 (1971), 168-171. (D. L. Colton) 44 #1862

Wiesner, Jerome B.

(with Rosenblith, Walter) From philosophy to mathematics to biology. *Bull. Amer. Math. Soc.* 72 (1966), *no.* 1, *pt.* 2, 33-38. (Editors) 32 #1107

Wiezorke, B.

Auswahlverfahren in der Regressionsanalyse. (English summary) *Metrika* 12 (1967), 68-79. (Author's summary) 35 #6284

Wiggert, Djimitri

A simple method of detecting decoding errors with threshold decoding. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 171-180. *Univ. of Illinois, Urbana, Ill.*, 1968. (Author's summary) 41 #8144

Wiggin, Albert

(with Christiano, John) Biorthogonality of characteristic vectors. *Math. Mag.* 42 (1969), 133-135. (R. F. Rinehart) 39 #4184

Wiggins, Alvin D.

A minimum cost model of spare parts inventory control. *Technometrics* 9 (1967), 661-665. (M. M. Flood) 36 #6205

Wiggins, Ralph A.

(with Robinson, Enders A.) Recursive solution to the multichannel filtering problem. *J. Geophys. Res.* 70 (1965), 1885-1891. (E. A. Robinson) 32 #589

Wightman, Arthur S.

Some results on the structure of relativistic quantum field theory. *Proc. Internat. Congr. Mathematicians (Stockholm,* 1962*), pp.* 587-595. *Inst. Mittag-Leffler, Djursholm*, 1963. (Editors) 31 #1935

La théorie quantique locale et la théorie quantique des champs. (English summary) *Ann. Inst. H. Poincaré Sect. A (N.S.)* 1 (1964), 403-420. (R. Jost) 33 #5270

Remarks on the present state of affairs in the quantum theory of elementary particles. *Mathematical Theory of Elementary Particles (Proc. Conf., Dedham, Mass., 1965), pp.* 171-184. *M.I.T. Press, Cambridge, Mass.,* 1966. (G. R. Allcock) 34 #8759

(with Jaffe, Arthur M.; Lanford, Oscar E., III) A general class of cut-off model field theories. *Comm. Math. Phys.* 15 (1969), 47-68. (H. Araki) 40 #6896

Wiginton, C. Lamar

Factoring pointlike simplicial mappings. *Trans. Amer. Math. Soc.* 129 (1967), 344-359. (S. S. Cairns) 35 #6140

(with Shrader, Susan) Spaces determined by a group of functions. *Bull. Amer. Math. Soc.* 74 (1968), 1110-1112. (S. K. Kaul) 38 #700

(with Decell, Henry P., Jr.) A characterization of the maximal subgroups of the semigroup of $n \times n$ complex matrices. *Czechoslovak Math. J.* 18(93) (1968), 675-677. (J. B. Kim) 38 #3366

Wigley, Neil M.

Asymptotic expansions at a corner of solutions of mixed boundary value problems. *J. Math. Mech.* 13 (1964), 549-576. (W. Wasow) 29 #2516

Development of the mapping function at a corner. *Pacific J. Math.* 15 (1965), 1435-1461. (E. Reich) 32 #4261

On the convergence of discrete approximations to solutions of mixed boundary value problems. *SIAM J. Numer. Anal.* 3 (1966), 372-382. (J. H. Curtiss) 34 #5327

On a method to subtract off a singularity at a corner for the Dirichlet or Neumann problem. *Math. Comp.* 23 (1969), 395-401. (L. Fox) 39 #6535

Mixed boundary value problems in plane domains with corners. *Math. Z.* 115 (1970), 33-52. (Moshe Marcus) 41 #7274

Wigner, David

Algebraic cohomology of topological groups. *Bull. Amer. Math. Soc.* 76 (1970), 825-826. (T. Husain) 41 #8574

Wigner, Eugene P.

(See Dispersion relations and their connection with causality, 29 4475 and Talman, James D., 39 #511)

The role of invariance principles in natural philosophy. *Dispersion Relations and Their Connection with Causality (Proc. Internat. School of Phys. "Enrico Fermi", Course XXIX, Varenna, 1963), pp.* ix-xvi. *Academic Press, New York,* 1964. (P. Roman) 29 #4476

Causality, *R*-matrix, and collision matrix. *Dispersion Relations and Their Connection with Causality (Proc. Internat. School of Phys. "Enrico Fermi", Course XXIX, Varenna, 1963), pp.* 40-67. *Academic Press, New York,* 1964. (P. Roman) 29 #4478

Unitary representations of the inhomogeneous Lorentz group including reflections. *Group theoretical concepts and methods in elementary particle physics (Lectures Istanbul Summer School Theoret. Phys., 1962), pp.* 37-80. *Gordon and Breach, New York,* 1964. (P. Roman) 30 #1210

(with Yanase, Mutsuo M.) On the positive semidefinite nature of a certain matrix expression. *Canad. J. Math.* 16 (1964), 397-406. (R. F. Rinehart) 29 #114

(with Duke, C. B.) Approximation method in collision theory based on *R*-matrix theory. *Rev. Modern Phys.* 36 (1964), 584-589. (H. Lustig) 30 #849

(with van Dam, H.) Classical relativistic mechanics of interacting point particles. *Phys. Rev.* (2) 138 (1965), B1576-B1582. (M. Sachs) 32 #8968

(with Houtappel, R. M. F.; van Dam, H.) The conceptual basis and use of the geometric invariance principles. *Rev. Modern Phys.* 37 (1965), 595-632. (M. Sachs) 33 #6979

(with van Dam, H.) Instantaneous and asymptotic conservation laws for classical relativistic mechanics of interacting point particles. *Phys. Rev.* (2) 142 (1966), 838-843. (P. Havas) 34 #7183

(with Sáenz, A. W.) Unimodular matrices homomorphic to Lorentz transformations in $n \geq 2$ spacelike dimensions. *Z. Naturforsch.* 22a (1967), 1293-1299. (Authors' summary) 36 #2737

(with Hegerfeldt, G. C.; Kraus, K.) Proof of the Fermion superselection rule without the assumption of time-reversal invariance. *J. Mathematical Phys.* 9 (1968), 2029-2031. (A. Pozzi) 38 #4104

(with Schweinler, H. C.) Orthogonalization methods. *J. Mathematical Phys.* 11 (1970), 1693-1694. (B. Kolman) 41 #6862

van Wijk, W. R.

(with Bruijn, P. J.) Laplace transforms of empirical curves in the evaluation of physical parameters in differential equations. *Physica* 30 (1964), 1097-1108. (G. Doetsch) 31 #2568

van Wijngaarden, A.

Numerical analysis as an independent science. *Nordisk Tidskr. Informations-Behandling* 6 (1966), 66-81. (H. Rutishauser) 34 #2141

Wijsman, Robert A.

(with Hall, W. J.; Ghosh, J. K.) The relationship between sufficiency and invariance with applications in sequential analysis. *Ann. Math. Statist.* 36 (1969), 575-614. (W. Hoeffding) 31 #2809

Existence of local cross-sections in linear Cartan *G*-spaces under the action of noncompact groups. *Proc. Amer. Math. Soc.* 17 (1966), 295-301. (J. L. Koszul) 34 #7705

Convergence of sequences of convex sets, cones and functions. II. *Trans. Amer. Math. Soc.* 123 (1966), 32-45. (Z. Frolík) 33 #4786

Cross-sections of orbits and their application to densities of maximal invariants. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 389-400. *Univ. California Press, Berkeley, Calif.,* 1967. (K. C. S. Pillai) 36 #7230

General proof of termination with probability one of invariant sequential probability ratio tests based on multivariate normal observations. *Ann. Math. Statist.* 38 (1967), 8-24. (I. R. Savage) 34 #5244

Bounds on the sample size distribution for a class of invariant sequential probability ratio tests. *Ann. Math. Statist.* 39 (1968), 1048-1056. (I. R. Savage) 37 #1029

Wik, Anders

A problem of Newman on the eigenvalues of operators of convolution type. *Ark. Mat.* 7, 601-605 (1969). (J. H. Neuwirth) 39 #4609

Wik, Ingemar

Some examples of sets with linear independence. *Ark. Mat.* 5, 207-214 (1964). (N. Dinculeanu) 29 #5060

A strong form of spectral synthesis. *Ark. Mat.* 6, 55-64 (1965). (J.-P. Kahane) 34 #3209

Extrapolation of absolutely convergent Fourier series by identically zero. *Ark. Mat.* 6, 65-76 (1965). (G. Sunouchi) 33 #4585

Criteria for absolute convergence of Fourier series of functions of bounded variation. *Trans. Amer. Math. Soc.* 163 (1971), 1-24. (S. Izumi) 44 #3068

Wilansky, Albert

* Functional analysis. *Blaisdell Publishing Co.* [*Ginn and Co.*], *New York-Toronto-London,* 1964. xvi + 293 *pp.* (R. Arens) 30 #425

Distinguished subsets and summability invariants. *J. Analyse Math.* 12 (1964), 327-350. (A. Peyerimhoff) 31 #541

Topological divisors of zero and Tauberian theorems. *Trans. Amer. Math. Soc.* 113 (1964), 240-251. (Edwin Hewitt) 29 #6222

On an article by R. W. Cross on the summability of bounded divergent sequences. *Bull. Soc. Math. Belg.* 17 (1965), 186-187. (A. Peyerimhoff) 36 #4197

(with Rajagopalan, M.) Reversible topological spaces. *J. Austral. Math. Soc.* 6 (1966), 129-138. (S. Swaminathan) 33 #4886

* Topics in functional analysis. Notes by W. D. Laverell. Lecture Notes in Mathematics, No. 45. *Springer-Verlag, Berlin-New York,* 1967. iv + 102 *pp.* (T. Husain) 36 #6901

Between T_1 and T_2. *Amer. Math. Monthly* 74 (1967), 261-266. (S. P. Franklin) 34 #8367

An elementary version of the Mackey-Arens theorem. *Amer. Math. Monthly* 75 (1968), 654-655. (S. Swaminathan) 37 #6731

Spectral decomposition of matrices for high school students. *Math. Mag.* 41 (1968), 51-59. 37 #2781

(with Chang, Shao-chien; Macphail, M. S.; Snyder, A. K.) Consistency and replaceability for conull matrices. *Math. Z.* 105 (1968), 208-212. (F. Ustina) 37 #5568

From triangular matrices to separated inductive limits. *Studia Math.* 31 (1968), 469-479. (V. Pták) 38 #6335

(with Bennett, Grahame) Two problems in summability. *Math. Z.* 112 (1969), 221. (G. M. Petersen) 40 #4627

Corrigenda to: "From triangular matrices to separated inductive limits". *Studia Math.* 33 (1969), 249. (Editors) 39 #6048

Life without T_2. *Amer. Math. Monthly* 77 (1970), 157-161; *correction, ibid.* 77 (1970), 728. (Author's introduction) 42 #1053

Subalgebras of $B(X)$. *Proc. Amer. Math. Soc.* 29 (1971), 355-360. (J. D. Gray) 43 #7930 (E)

Wilbur, W. John

(with Macintyre, A. J.) A proof of the power series expansion without differentiation theory. *Proc. Amer. Math. Soc.* 18 (1967), 419-424. (P. T. Church) 35 #5638

(with Pfeffer, W. F.) A note on cluster points of a semihereditary stable system of sets. *Proc. Amer. Math. Soc.* 21 (1969), 121-125. (B. K. Lahiri) 38 #6529

On measurability and regularity. *Proc. Amer. Math. Soc.* 21 (1969), 741-746. (J. C. Oxtoby) 39 #391

(with Pfeffer, W. F.) On the measurability of Perron integrable functions. *Pacific J. Math.* 34 (1970), 131-144. (J. C. Oxtoby) 43 #458

Wilcox, Calvin H.

* Asymptotic solutions of differential equations and their applications. Proceedings of a Symposium Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, May 4-6, 1964. Edited by Calvin H. Wilcox. Publication No. 13 of the Mathematics Research Center, United States Army, The University of Wisconsin. *John Wiley & Sons, Inc., New York-London-Sydney*, 1964. x + 249 *pp.* (Editors) 29 #3702

Electric wave propagation on non-uniform coupled transmission lines. *SIAM Rev.* 6 (1964), 148-165. (W. T. Reid) 30 #5676

Uniform asymptotic estimates for wave packets in the quantum theory of scattering. *J. Mathematical Phys.* 6 (1965), 611-620. (S. T. Kuroda) 32 #280

(See also Perturbation theory and its applications in quantum mechanics, 34 #1130)

Wave operators and asymptotic solutions of wave propagation problems of classical physics. *Arch. Rational Mech. Anal.* 22 (1966), 37-78. (S. T. Kuroda) 33 #7675

Steady-state wave propagation in homogeneous anisotropic media. *Arch. Rational Mech. Anal.* 25 (1967), 201-242. (J. W. Craggs) 37 #1121

(with Avila, Geraldo S.S.) The near-field behavior of the Green's matrix in anisotropic wave motion. *J. Math. Mech.* 16 (1967), 867-883. (From the authors' introduction) 35 #530

Transient wave propagation in homogeneous anisotropic media. *Arch. Rational Mech. Anal.* 37 (1970), 323-343. (J. W. Craggs) 41 #6455

(with Schulenberger, John R.) The singularities of the Green's matrix in anisotropic wave motion. *Indiana Univ. Math. J.* 20 (1970/71), 1093-1117. (Teruo Ikebe) 44 #7156

(with Schulenberger, John R.) A Rellich uniqueness theorem for steady-state wave propagation in inhomogeneous anisotropic media. *Arch. Rational Mech. Anal.* 41 (1971), 18-45. (D. L. Russell) 43 #712

(with Schulenberger, John R.) The limiting absorption principle and spectral theory for steady-state wave propagation in inhomogeneous anisotropic media. *Arch. Rational Mech. Anal.* 41 (1971), 46-65. (D. L. Russell) 43 #713

(with Schulenberger, John R.) Completeness of the wave operators for perturbations of uniformly propagative systems. *J. Functional Analysis* 7 (1971), 447-474. (J. Smoller) 43 #978

Wilcox, Gordon W.

(with Harary, Frank) Boolean operations on graphs. *Math. Scand.* 20 (1967), 41-51. (J. W. Moon) 35 #2775

Wilcox, Howard J.

Pseudocompact groups. *Pacific J. Math.* 19 (1966), 365-379. (W. W. Comfort) 34 #5964

Dense subgroups of compact groups. *Proc. Amer. Math. Soc.* 28 (1971), 578-580. (L. Corwin) 43 #6359

Wilcox, Ralph M.

Classical diagram technique for calculating thermostatic properties of solids; application to dielectric susceptibility of paraelectrics. *Phys. Rev.* (2) 139 (1965), A1281-A1291. (A. A. Maradudin) 32 #5309

Exponential operators and parameter differentiation in quantum physics. *J. Mathematical Phys.* 8 (1967), 962-982. (From the author's introduction) 38 #3005

(with Bellman, Richard) Truncation and preservation of moment properties for Fokker-Planck moment equations. *J. Math. Anal. Appl.* 32 (1970), 532-542. (S. Ueno) 44 #3465

Closed-form solution of the differential equation $(\partial^2/(\partial x\partial y) + ax\,\partial/\partial x + by\,\partial/\partial y + cxy + \partial/\partial t)P = 0$ by normal-ordering exponential operators. *J. Mathematical Phys.* 11 (1970), 1235-1237. (Editors) 41 #3956e

Transmission of electromagnetic waves through a conducting plasma slab. *J. Mathematical Phys.* 12 (1971), 1195-1207. (H. C. Kranzer) 44 #6215

Wilcox, Theodore W.

On the structure of maximally almost periodic groups. *Bull. Amer. Math. Soc.* 73 (1967), 732-734. (H. Freudenthal) 35 #4344

On the structure of maximally almost periodic groups. *Math. Scand.* 23 (1968), 221-232 (1969). (A. Kleppner) 40 #5788

Wilcox, W. C.

(with Carnes, R. D.) An infixed, punctuation-free notation. *Notre Dame J. Formal Logic* 9 (1968), 171-178. (H. Rohleder) 38 #6892

On infinite matrices and the paradoxes of material implication. *Notre Dame J. Formal Logic* 11 (1970), 254-256. (N. C. A. da Costa) 43 #3098

Wilcoxon, Frank

(with Bradley, Ralph A.; Martin, Donald C.) Sequential rank tests. I. Monte Carlo studies of the two-sample procedure. *Technometrics* 7 (1965), 463-483. (H. E. Reinhardt) 32 #8456

(with Daniel, Curhbert) Factorial 2^{p-q} plans robust against linear and quadratic trends. *Technometrics* 8 (1966), 259-278. (Authors' summary) 34 #3730

(with Bradley, Ralph A.; Merchant, Sarla D.) Sequential rank tests. II. Modified two-sample procedures. *Technometrics* 8 (1966), 615-623. (H. E. Reinhardt) 34 #8569

(See also Karas, James and Savage, I. Richard, 35 #5020)

Wilczyński, Władysław

(with Jedrzejewski, J.) On the family of sets of limit numbers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 453-460. (W. J. Wilbur) 43 #2168

On points of absolute continuity. Functions of several variables. *Colloq. Math.* 22 (1971), 285-289. (F. Brooks) 43 #6366

Wilde, Carroll O.

(with Witz, Klaus) Invariant means and the Stone-Čech compactification. *Pacific J. Math.* 21 (1967), 577-586. (E. Granirer) 35 #3423

(with Argabright, Loren) Invariant means and factor-semigroups. *Proc. Amer. Math. Soc.* 18 (1967), 226-228. (E. Granirer) 35 #5908

(with Argabright, L. N.) Semigroups satisfying a strong Følner condition. *Proc. Amer. Math. Soc.* 18 (1967), 587-591. (M. M. Day) 35 #1683

Wilde, Douglass J.

A multivariable dichotomous optimum-seeking method. *IEEE Trans. Automatic Control* AC-10 (1965), 85-87. (J. Kiefer) 31 #6352a

(with Beightler, C. S.; Johnson, D. B.) Superposition in branching allocation problems. *J. Math. Anal. Appl.* 12 (1965), 65-70. (S. E. Dreyfus) 31 #6680

Jacobians in constrained nonlinear optimization. *Operations Res.* 13 (1965), 848-856. (E. M. L. Beale) 33 #2416

(with Avriel, Mordecai) Optimality proof for the symmetric Fibonacci search technique. *Fibonacci Quart.* 4 (1966), 265-269. (D. G. Cantor) 34 #8621

(with Beightler, Charles S.) Diagonalization of quadratic forms by Gauss elimination. *Management Sci.* 12 (1966), 371-379. (W. C. Rheinboldt) 32 #6652

(with Passy, U.) Generalized polynomial optimization. *SIAM J. Appl. Math.* 15 (1967), 1344-1356. (R. L. Graves) 38 #926

(with Beightler, C. S.; Johnson, D. B.) Erratum to: "Superposition in branching allocation problems". *J. Math. Anal. Appl.* 21 (1968), 466. (Editors) 36 #2384

(with Avriel, Mordecai) Golden block search for the maximum of unimodal functions. *Management Sci.* 14 (1968), 307-319. (Authors' summary) 39 #7934

(with Reklaitis, G.) A computationally compact sufficient condition for constrained minima. *Operations Res.* 17 (1969), 425-436. (A. F. Veinott, Jr.) 40 #2352

(with Beamer, John H.) Minimax optimization of unimodal functions by variable block search. *Management Sci.* 16 (1969/70), 529-541. (A. D. Booth) 43 #7043

Wilde, I. F.

(with Streater, R. F.) The time evolution of quantized fields with bounded quasi-local interaction density. *Comm. Math. Phys.* 17 (1970), 21-32. (M. E. Mayer) 42 #2763

Wilde, Kenneth A.

Anharmonicity in vibrational state sums. *J. Chem. Phys.* 41 (1964), 448-451. (Author's summary) 29 #1015

de Wilde, Marc. See De Wilde, Marc.

Wilde, Piotr

The thermal buckling of a thin plate in the form of a minimal surface. (Polish and Russian summary) *Arch. Mech. Stos.* 16 (1964), 81-92. (P. R. Paslay) 29 #6703

Wildenhain, Günther

Räume m-mal stetig differenzierbarer Funktionen. I, II. *Wiss. Z. Techn. Univ. Dresden* 12 (1963), 559-564; *ibid.* 12 (1963), 877-881. (R. E. Williamson) 31 #2609

* Anwendung von Räumen stetig differenzierbarer Funktionen für potentialtheoretische Betrachtungen bei einigen Typen linearer elliptischer Differentialgleichungen. *Von der Fakultät für Mathematik und Naturwissenschaften an der Technischen Universität Dresden zur Erlangung des Grades eines Doktors der Naturwissenschaften genehmigte Dissertation, Dresden*, 1964. xiv + 160 *pp.* (W. H. Fleming) 30 #2161

Potentialtheoretische Betrachtungen bei der Bipotentialgleichung. *Math. Ann.* 161 (1965), 1-23. (L. L. Helms) 33 #1482

Anwendung eines Approximationssatzes für stetig differenzierbare Funktionen auf die Bipotentialgleichung. *Math. Nachr.* 31 (1966), 137-152. (R. E. Williamson) 36 #418

Eine Charakterisierung von Mengen der Kapazität null im R^1. *Math. Nachr.* 32 (1966), 269-275. (H. Bauer) 35 #6857

Ein eindimensionales Modell der Potentialtheorie. *Math. Nachr.* 33 (1967), 1-24. (R. E. Williamson) 36 #414

Über einen Kapazitätsbegriff bei der Differentialgleichung $\Delta^m u = 0$. *Math. Z.* 96 (1967), 125-142. (M. Brelot) 34 #6138
Über das Dirichletsche Problem bei der Bipotentialgleichung. *Math. Ann.* 175 (1968), 189-206. (M. Brelot) 36 #5520
Eine Bemerkung zum Cauchyschen Problem bei gewöhnlichen Differentialgleichungen. *Math. Nachr.* 42 (1969), 267-274. (D. H. Sattinger) 42 #565

de Wilde-Nibes, M. T. See De Wilde-Nibes, M. T.

Wilder, B. E.
Various types of norm-determining manifolds. *Proc. Amer. Math. Soc.* 18 (1967), 1014-1019. (T. L. Hicks) 36 #661
Concerning point sets with a special connectedness property. *Colloq. Math.* 19 (1968), 221-224. (J. Segal) 37 #5852
Concerning point sets with a special connectedness property. II. *Colloq. Math.* 22 (1970), 61-67. (J. Segal) 42 #8457
Semigroups on acyclic plane continua. *Proc. Amer. Math. Soc.* 28 (1971), 587-589. (K. D. Magill, Jr.) 43 #2686

Wilder, Donald R.
(with Herzberger, Max) Characteristic functions for special image formations and for a general thick lens. *J. Opt. Soc. Amer.* 54 (1964), 773-790. (W. Franzen) 31 #6504

Wilder, Raymond Louis
* Topology of manifolds. American Mathematical Society Colloquium Publications, Vol. XXXII. *American Mathematical Society, Providence, R. I.*, 1963. xi + 403 pp. (Editors) 32 #440
* Introduction to the foundations of mathematics. Second edition. *John Wiley & Sons, Inc., New York-London-Sydney*, 1965. xii + 327 *pp.* (A. Heyting) 32 #35
A problem of Bing. *Proc. Nat. Acad. Sci. U.S.A.* 54 (1965), 683-687. (L. K. Barrett) 32 #6442
The role of the axiomatic method. *Amer. Math. Monthly* 74 (1967), 115-127. (J. Tucker) 34 #7315
* Evolution of mathematical concepts. An elementary study. *John Wiley & Sons, In., New York-London-Sydney*, 1968. xviii + 224 *pp.* (Kenneth May) 40 #7065
Addition and reduction theorems for medial properties. *Trans. Amer. Math. Soc.* 130 (1968), 131-140. (H. B. Griffiths) 36 #3364
The role of the axiomatic method. (Bulgarian) *Fiz.-Mat. Spis. B"lgar. Akad. Nauk.* 12(45) (1969), 221-234. (Editors) 40 #4050

Wildermuth, Karl
(with Okai, S.; Park, Sh.) Exclusion principle and nuclear reaction mechanism. *Z. Physik* 184 (1965), 451-480. (Z. Janković) 31 #6604

Wildt, Rupert
Thermodynamics of the gray atmosphere. I. Reversible adiabatic processes. *Astrophys. J.* 140 (1964), 1343-1352. (S. Ueno) 32 #5347

Wilets, Lawrence
(with Henley, E. M.; Kennedy, R. C.) Finite superconductors and their infinite volume limit. *Phys. Rev.* (2) 135 (1964), A1172-A1174. (Authors' summary) 30 #3722

Wilf, Herbert S.
(with de Bruijn, N. G.) On Hilbert's inequality in n dimensions. *Bull. Amer. Math. Soc.* 68 (1962), 70-73. (Editors) 31 #291
On the zeros of Riesz' function in the analytic theory of numbers. *Illinois J. Math.* 8 (1964), 639-641. (S. Chowla) 30 #1989
Exactness conditions in numerical quadrature. *Numer. Math.* 6 (1964), 315-319. (R. A. Valentin) 31 #4178
The stability of smoothing by least squares. *Proc. Amer. Math. Soc.* 15 (1964), 933-937. (J. R. Rice) 29 #5036
(with Rooij, A. C. M.) The interchange graph of a finite graph. (Russian summary) *Acta Math. Acad. Sci. Hungar.* 16 (1965), 263-269. (F. Harary) 33 #3959
(with Fine, N. J.) Uniqueness theorems for periodic functions. *Proc. Amer. Math. Soc.* 16 (1965), 109-114. (A. Devinatz) 30 #5124
On the permanent of a doubly stochastic matrix. *Canad. J. Math.* 18 (1966), 758-761. (G. F. Clements) 33 #4078
(with Widom, Harold) Small eigenvalues of large Hankel matrices. *Proc. Amer. Math. Soc.* 17 (1966), 338-344. (C. G. Cullen) 32 #6664 (E)
Errata: The stability of smoothing by least squares. *Proc. Amer. Math. Soc.* 17 (1966), 542. (Editors) 32 #8016
(See also Mathematical methods for digital computers, Vol. II, 35 #2516 and Mathematische Methoden für Digitalrechner, 40 #8314 and 40 #8213)
The eigenvalues of a graph and its chromatic number. *J. London Math. Soc.* 42 (1967), 330-332. (J. W. Moon) 34 #7408
Hadamard determinants, Möbius functions, and the chromatic number of a graph. *Bull. Amer. Math. Soc.* 74 (1968), 960-964. (R. A. Brualdi) 37 #5106
(with Szekeres, G.) An inequality for the chromatic number of a graph. *J. Combinatorial Theory* 4 (1968), 1-3. (W. Imrich) 36 #1356
Divisibility properties of the permanent function. *J. Combinatorial Theory* 4 (1968), 194-197. (G. F. Clements) 36 #3665a
A mechanical counting method and combinatorial applications. *J. Combinatorial Theory* 4 (1968), 246-258. (D. A. Klarner) 36 #1346
(with Widom, Harold) Errata to: "Small eigenvalues of large Hankel matrices". *Proc. Amer. Math. Soc.* 19 (1968), 1508. (Editors) 37 #7081
The Möbius function in combinatorial analysis and chromatic graph theory. *Proof Technique in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich.*, 1968*), pp.* 179-188. *Academic Press, New York*, 1969. (J. Riordan) 40 #7126
* Finite sections of some classical inequalities. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 52. *Springer-Verlag, New York-Berlin*, 1970. v + 83 *pp.* (A. E. Heins) 42 #6643
(with Nijenhuis, Albert) On a conjecture in the theory of permanents. *Bull. Amer. Math. Soc.* 76 (1970), 738-739. (N. J. Pullman) 41 #3302
(with Nijenhuis, Albert) On a conjecture of Ryser and Minc. *Nederl. Akad. Wetensch. Proc. Ser. A* 73 = *Indag. Math.* 32 (1970), 151-157. (B. N. Moyls) 42 #4566
An analogue of the chromatic polynomial for vertex assignments modulo 3. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford*, 1969*), pp.* 311-313. *Academic Press. London*, 1971. (Zuthor's introduction) 43 #3168
The friendship theorem. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford*, 1969*), pp.* 307-309. *Academic Press, London*, 1971. (From the author's introduction) 44 #91
(with Nijenhuis, Albert) Representations of integers by linear forms in nonnegative integers. *J. Number Theory* 4 (1972), 98-106. (H. Gupta) 44 #5274

Wilhelm, Kecs. See Kecs, Wilhelm.

Wilhelm, Otto
(with Sprengel, Hans-Jürgen) Zur Systematik einiger integrabler Fälle der Differentialgleichung $U'' + f(z)U = 0$ im Zusammenhang mit der Ausbreitung elektromagnetischer Wellen in inhomogenen Medien. *Wiss. Z. Pädagog. Hochsch. Potsdam Math.-Natur. Reihe* 13 (1969), 401-404. (I. Kay) 40 #8344

Wilhelmi, Gerhard
Summierbarkeit von Potenzreihen auf dem Rand des Konvergenzkreises. *Mitt. Math. Sem. Giessen Heft* 73 (1967), iii + 57 *pp.* (L. Alpár) 36 #1620

Wilhelmsen, Russell
A nonlinear boundary value problem. *Bull. Amer. Math. Soc.* 73 (1967), 920-921. (P. Waltman) 36 #1718
(with Bebernes, J. W.) A technique for solving two-dimension boundary value problems. *SIAM J. Appl. Math.* 17 (1969), 1060-106 (A. D. Ziebur) 41 #3873
(with Bebernes, J. W.) A general boundary value problem technique. *J. Differential Equations* 8 (1970), 404-415. (A. D. Ziebur) 42 #575
(with Bebernes, J.) A remark concerning a boundary value problem. *J. Differential Equations* 10 (1971), 389-391. (A. D. Ziebur) 44 #7033

Wilk, M. B.
(with Gnanadesikan, R.) Graphical methods for internal comparisons in multiresponse experiments. *Ann. Math. Statist.* 35 (1964), 613-631. (S. G. Ghurye) 29 #6585
(with Shapiro, S. S.) An analysis of variance test for normality: Complete samples. *Biometrika* 52 (1965), 591-611. (N. L. Johnson) 34 #5213
(with Gnanadesikan, R.; Lauh, Elizabeth) Scale parameter estimation from the order statistics of unequal gamma components. *Ann. Math. Statist.* 37 (1966), 152-176. (M. Muller) 33 #6753
(with Shapiro, S. S.; Chen, H. J.(Mrs.)) A comparative study of various tests for normality. *J. Amer. Statist. Assoc.* 63 (1968), 1343-1372. (From the authors' summary) 38 #5362
(with Shapiro, S. S.) Approximations for the null distribution of the W statistic. *Technometrics* 10 (1968), 861-866. 38 #2867
(with Gnanadesikan, R.) Data analytic methods in multivariat statistical analysis. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio*, 1968*), pp.* 593-638. *Academic Pres New York*, 1969. (P. R. Krishnaiah) 40 #5072
(with Gnanadesikan, R.) Use of maximum likelihood for estimating error variance from a collection of analysis of varianc mean squares. *Ann. Math. Statist.* 41 (1970), 292-304. (E. H. Lehman, Jr.) 41 #6372
(with Gnanadesikan, R.) A probability plotting procedure for general analysis of variance. *J. Roy. Statist. Soc. Ser. B* 32 (1970), 88-101. 42 #1282

Wilke, F. W.
(with Zemmer, J. L.) Some new finite translation planes. *Trans. Amer. Math. Soc.* 131 (1968), 378-397. (D. A. Foulser) 36 #7021.
A class of translation planes and a conjecture of D. R. Hughes. *Trans. Amer. Math. Soc.* 145 (1969), 223-232. (D. A. Foulser) 40 #3427

(with Narayana Rao, M. L.) A necessary condition that two finite quasi-fields coordinatize isomorphic translation planes. *Proc. Amer. Math. Soc.* 24 (1970), 124-125. (B. Artmann) 40 #1879

(with Narayana Rao, M. L.; Rodabaugh, D. J.; Zemmer, J. L.) A new class of finite translation planes obtained from the exceptional near-fields. *J. Combinatorial Theory Ser. A* 11 (1971), 72-92. (P. J. Lorimer) 43 #5408

Wilken, Donald R.

Maximal ideal spaces and A-convexity. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ., 1965), pp.* 120-121. *Scott-Foresman, Chicago, Ill.*, 1966. (A. Brown) 33 #1757

Approximate normality and function algebras on the interval and the circle. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ.*, 1965), *pp.* 98-111. *Scott-Foresman, Chicago, Ill.*, 1966. (P. Civin) 33 #4712

Maximal ideal spaces and A-convexity. *Proc. Amer. Math. Soc.* 17 (1966), 1357-1362. (I. Glicksberg) 34 #3375

Lebesgue measure of parts for $R(X)$. *Proc. Amer. Math. Soc.* 18 (1967), 508-512. (J. Wermer) 35 #7132

Representing measures for harmonic functions. *Duke Math. J.* 35 (1968), 383-389. (J. H. Neuwirth) 37 #2005

Parts in analytic polyhedra. *Michigan Math. J.* 15 (1968), 345-351. (B. M. Weinstock) 38 #2609

The support of representing measures for $R(X)$. *Pacific J. Math.* 26 (1968), 621-626. (J. Wermer) 38 #5008

A note on strongly regular function algebras. *Canad. J. Math.* 21 (1969), 912-914. (H. S. Bear) 39 #6084

(with Gamelin, T. W.) Closed partitions of maximal ideal spaces. *Illinois J. Math.* 13 (1969), 789-795. (E. L. Stout) 40 #4767

Remarks on the string of beads. *Proc. Amer. Math. Soc.* 23 (1969), 133-135. (J. Garnett) 40 #3319

Bounded point derivations and representing measures on $R(X)$. *Proc. Amer. Math. Soc.* 24 (1970), 371-373. (R. H. Cox) 40 #1781

(with Brickman, L.; MacGregor, T. H.) Convex hulls of some classical families of univalent functions. *Trans. Amer. Math. Soc.* 156 (1971), 91-107. (R. McLaughlin) 43 #494

Wilken, Harald

* Die Behandlung von Randwertaufgaben der Kirchhoffschen Plattentheorie als Kopplungsprobleme der Funktionentheorie. Zur Erlangung des Akademischen Grades eines Doktor-Ingenieurs von der Fakultät für Maschinenbau und Verfahrenstechnik der Universität Karlsruhe (TH) genehmigte Dissertation. *Universität Karlsruhe, Karlsruhe*, 1969. 124 *pp.* (J. L. Nowinski) 42 #5485

Wilkens, Alexander

Zur Theorie der nahezu kommensurablen Bewegung der Planetoiden des Hecuba-Typus im Raum. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1963, *Abt.* II, 101-127 (1964). (D. Brouwer) 29 #6921a

Zur Theorie der nahezu kommensurablen Bewegung der Planetoiden des Hestia-Typus im Raum. *Bayer. Akad. Wiss. Math.-Natur. Kl. S.-B.* 1963, *Abt.* II, 129-153 (1964). (D. Brouwer) 29 #6921b

Wilker, John B.

Open disk packings of a disk. *Canad. Math. Bull.* 10 (1967), 395-415. (H. S. M. Coxeter) 35 #6041

Four proofs of a generalization of the Descartes circle theorem. *Amer. Math. Monthly* 76 (1969), 278-282. (R. G. Stanton) 39 #7511

Wilker, Peter

Über die maximale Zerlegung linearer Abbildungen von endlich-dimensionalen Vektorräumen. *Arch. Math.* 14 (1963), 361-366. (B. Vinograde) 29 #113

Double loops and ternary rings. *Bull. Amer. Math. Soc.* 70 (1964), 543-547. (L. G. Kovács) 29 #181

Doppelloops und Ternärkörper. *Math. Ann.* 159 (1965), 172-196. (L. G. Kovács) 33 #218

$\mathcal{F}$-closure algebras. *Fund. Math.* 64 (1969), 105-119. (R. Sikorski) 40 #2582

Adjoint product and hom functors in general topology. *Pacific J. Math.* 34 (1970), 269-283. (R. Wiegand) 42 #5218

Wilkes, E. W.

(with Knops, R. J.) On Movchan's theorems for stability of continuous systems. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 4 (1966), 303-329. (C. S. Hsu) 34 #5360

Wilkes, Maurice

* A short introduction to numerical analysis. *Cambridge University Press, London-New York*, 1966. iv + 76 *pp.* (J. F. Riordan) 34 #3748

Wilkie, D.

Complete set of leading coefficients, $\lambda(r, n)$, for orthogonal polynomials up to $n = 26$. *Technometrics* 7 (1965), 644-648. 32 #3178

Wilkie, Dennis F.

(with Perkins, William R.) Generation of sensitivity functions for linear systems using low order models. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp.* 598-614. *Univ. of Illinois, Urbana, Ill.*, 1968. (Authors' summary) 41 #8070

(with van Schieveen, Henk M.) On the sensitivity of the linear state regulator. *Proc. Seventh Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1969), pp.* 549-563. *Univ. of Illinois, Urbana, Ill.*, 1969. (Authors' summary) 41 #8111

(with Perkins, William R.) Generation of sensitivity functions for linear systems using low-order models. *IEEE Trans. Automatic Control* AC-14 (1969), 123-130. 39 #5202

(with van Schieveen, Henk M.) On the sensitivity of the linear state regulator. *Internat. J. Control* (1) 12 (1970), 709-719. (Authors' summary) 42 #9023

Wilkie, H. C.

On non-Euclidean crystallographic groups. *Math. Z.* 91 (1966), 87-102. (J. J. Burckhardt) 32 #2483

Wilkins, Coleridge A.

(with Reichel, A.) On the theory of resonance integrals in the statistical region. *J. Appl. Probability* 1 (1964), 335-346. (P. Caldirola) 31 #4476

Some remarks on a certain process. *Austral. J. Statist.* 7 (1965), 62-66. (J. R. Blum) 33 #6728

Wilkins, J. Ernest, Jr.

Problems of stationarity and control with a nonlocal cost per unit time. *J. Math. Anal. Appl.* 33 (1971), 433-434. (L. D. Berkovitz) 42 #5143

Wilkins, John W.

(with Jensen, H. Højgaard; Smith, Henrik) Upper and lower bounds on transport coefficients arising from a linearized Boltzmann equation. *Phys. Rev.* (2) 185 (1969), 323-337. (M. Dutta) 40 #8413

Wilkins, John

* The mathematical and philosophical works of the Right Rev. John Wilkins. Two volumes in one. Cass Library of Science Classics, No. 11. *Frank Cass & Co. Ltd., London*, 1970. *Vol. I:* xvi + 261 *pp.* (Editors) 41 #23

Wilkinson, James B.

A lower bound for the dimension of certain G_δ sets in completely normal spaces. *Proc. Amer. Math. Soc.* 20 (1969), 175-178. (R. F. Williams) 38 #6559

Wilkinson, James Hardy

Error analysis of direct methods of matrix inversion. *J. Assoc. Comput. Mach.* 8 (1961), 281-330. (V. K. Saud'ev (RŽMat 1962 #7 V165)) 31 #874

* The algebraic eigenvalue problem. *Clarendon Press, Oxford*, 1965. xviii + 662 *pp.* (A. S. Householder) 32 #1894

Error analysis of transformations based on the use of matrices of the form $I-2ww^H$. *Error in Digital Computation, Vol. 2 (Proc. Sympos. Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis., 1965), pp.* 77-101. *Wiley, New York*, 1965. (J. M. Ortega) 32 #6711

Convergence of the LR, QR, and related algorithms. *Comput. J.* 8 (1965), 77-84. (E. R. Hansen) 32 #590

The QR algorithm for real symmetric matrices with multiple eigenvalues. *Comput. J.* 8 (1965), 85-87. (E. R. Hansen) 31 #5329

The calculation of Lamé polynomials. *Comput. J.* 8 (1965), 273-277. (Author's summary) 32 #1884

(with Oettli, Karl Werner; Prager, W.) Admissible solutions of linear systems with not sharply defined coefficients. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 291-299. (L. W. Ehrlich) 32 #1888

(with Golub, G. H.) Note on the iterative refinement of least squares solution. *Numer. Math.* 9 (1966), 139-148. (W. J. Kotzé) 35 #3849

The basic forms of error analysis of matrix processes. (French summary) *Programmation en Mathématiques Numériques (Actes Colloq. Internat. C.N.R.S. No.* 165, *Besançon*, 1966), *pp.* 127-133. *Éditions Centre Nat. Recherche Sci., Paris*, 1968. (L. W. Ehrlich) 37 #7075

A priori error analysis of algebraic processes. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 629-640. *Izdat. "Mir", Moscow*, 1968. (A. S. Householder) 38 #1853

A survey of error analysis of matrix algorithms. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 93-102. (B. N. Parlett) 37 #3797

Almost diagonal matrices with multiple or close eigenvalues. *Linear Algebra and Appl.* 1 (1968), *no.* 1, 1-12. (John Todd) 37 #1386

Global convergence of tridiagonal QR algorithm with origin shifts. *Linear Algebra and Appl.* 1 (1968), 409-420. (E. R. Hansen) 38 #2938

* Rundungsfehler. Aus dem Englischen übertragen von G. Goos. Heidelberger Taschenbücher, Band 44. *Springer-Verlag, Berlin-New York,* 1969. x + 208 pp. (Editors) 39 #3730

Global convergence of QR algorithm. (With discussion) *Information Processing 68 (Proc. IFIP Congress, Edinburgh, 1968), Vol. 1: Mathematics, Software, pp.* 130-133. *North-Holland, Amsterdam,* 1969. (Author's summary) 40 #8246

(with Peters, G.) Eigenvalues of $Ax = \lambda Bx$ with band symmetric A and B. *Comput. J.* 12 (1969), 398-404. (Authors' summary) 40 #6757

(with Householder, Alston S.; Varga, Richard S.) A note on Gerschgorin's inclusion theorem for eigenvalues of matrices. *Numer. Math.* 16 (1970), 141-144. (J. Stoer) 43 #1401

(with Peters, G.) $Ax = \lambda Bx$ and the generalized eigenproblem. *SIAM J. Numer. Anal.* 7 (1970), 479-492. (E. Deutsch) 43 #2843

Some comments from a numerical analyst. *J. Assoc. Comput. Mach.* 18 (1971), 137-147. (Author's summary) 43 #8205

Wilkinson, William D.

(See Symposium on computer augmentation of human reasoning, 34 #983)

Wilkinson, Willaim E.

(See Proceedings of the Symposium on Congestion Theory, Chapel Hill, N. C., 1964, 32 #7223)

(with Smith, Walter L.) On branching processes in random environments. *Ann. Math. Statist.* 40 (1969), 814-827. (F. L. Spitzer) 39 #7684

On calculating extinction probabilities for branching processes in random environments. *J. Appl. Probability* 6 (1969), 478-492. (P. E. Ney) 41 #2787

(with Smith, Walter L.) Branching processes in Markovian environments. *Duke Math. J.* 38 (1971), 749-763. (C. C. Heyde) 44 #6080

Wilkov, R. S.

(with Kim, W. H.) A practical approach to the chromatic partition problem. *J. Franklin Inst.* 289 (1970), 333-349. (F. Bernhart) 41 #8300

Wilks, Samuel Stanley

Multivariate statistical outliers. *Sankhyā Ser. A* 25 (1963), 407-426. (T. S. Ferguson) 30 #3547

(See also Gulliksen, Harold, 29 #3345; Anderson, T. W., 30 #4656, 30 #4657; and Stephan, Frederick F.; Tukey, John W. Mosteller, Frederick; Mood, Alex M.; Hansen, Morris H.; Simon, Leslie E.; Dixon, W. J., 32 #8420)

* Collected papers: Contributions to mathematical statistics. Edited by T. W. Anderson. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. xxvi + 693 *pp. (1 plate)* (Editors) 36 #997

* Математическая статистика. (Russian) [Mathematical statistics] Translated from the English by A. M. Kagan, L. A. Halfin, O. V. Šalaevskiĭ. Edited by Ju. V. Linnik. *Izdat. "Nauka", Moscow,* 1967. (Editors) 37 #2345

Will, Clifford M.

(with Thorne, Kip S.) Theoretical frameworks for testing relativistic gravity. I. Foundations. *Astrophys. J.* 163 (1971), 595-610. (P. Sengupta) 44 #1390

Theoretical frameworks for testing relativistic gravity. II. Parametrized post-Newtonian hydrodynamics, and the Nordtvedt effect. *Astrophys. J.* 163 (1971), 611-628. (P. Sengupta) 44 #1391

Willans, C. P.

On formulae for the nth prime number. *Math. Gaz.* 48 (1964), 413-415. (L. K. Durst) 31 #2198

Willard, Claude

A theorem on convolution algebra in the theory of the Laplace transform. (Spanish) *Rev. Mat. Elem.* 8 (1966), 46-47. (A. A. Armendáriz) 33 #3057

Stratégie en face d'une demande aléatoire. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A446-A448. (B. Bereanu) 36 #1192

Willard, Earl R.

Properties of projective generators. *Math. Ann.* 158 (1965), 352-364. (P. J. Higgins) 31 #1290

Willard, Stephen

Absolute Borel sets in their Stone-Čech compactifications. *Fund. Math.* 58 (1966), 323-333. (R. Duda) 33 #4892

Embedding metric absolute Borel sets in completely regular spaces. *Colloq. Math.* 20 (1969), 38-88. (C. R. Borges) 39 #3458

Matric spaces all of whose decompositions are metric. *Proc. Amer. Math. Soc.* 21 (1969), 126-128. (D. R. Traylor) 39 #919

* General topology. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1970. xii + 369 *pp.* (C. W. Kohls) 41 #9173

Willcocks, T. H.

Some squared squares and rectangles. *J. Combinatorial Theory* 3 (1967), 54-56. (A. H. Stone) 35 #5347

Willcox, Alfred B.

Šilov type C algebras over a connected locally compact abelian group. II. *Pacific J. Math.* 14 (1964), 1463-1474. (E. Hewitt) 31 #563

Wille, Friedrich

Durchschnitts- und Distanzeigenschaften bei Überdeckungen von Kugel, Sphäre und Raum. *Arch. Math. (Basel)* 21 (1970/71), 666-672. (H. Groemer) 44 #3203

Zwei Überdeckungssätze für die n-dimensionale Kugel. *Elem. Math.* 25 (1970), 49-54. (P. T. Church) 41 #9234

Zur Überdeckung der Sphäre mit sphärisch streng konvexen Mengen. *Math.-Phys. Semesterber.* 17 (1970), 221-222. (H. Groemer) 42 #3676

Verallgemeinerung der Sätze von Borsuk-Ulam und Lusternik-Schnirelmann-Borsuk auf nichtantipodische Punktepaare. *Monatsh. Math.* 74 (1970), 351-370. (H. Groemer) 43 #4004

Wille, R. J.

The existence of a topological group with automorphism group C_7. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 53-57. (J. de Groot) 37 #4197

On the boundary operator of differential modules. *Abh. Math. Sem. Univ. Hamburg* 35 (1971), 164-173. (R. A. Wiegand) 44 #6754

Wille, Rudolf

Halbkomplementäre Verbände. *Math. Z.* 94 (1966), 1-31. (G. Bruns) 36 #84

Verbandstheoretische Charakterisierung n-stufiger Geometrien. *Arch. Math. (Basel)* 18 (1967), 465-468. (R. J. Bumcrot) 36 #3217

Variety invariants for modular lattices. *Canad. J. Math.* 21 (1969), 279-283. (G. S. Monk) 39 #2671

Subdirekte Produkte und konjunkte Summen. *J. Reine Angew. Math.* 239/240 (1969), 333-338. (S. Comer) 44 #2690

Primitive Länge und primitive Weite bei modularen Verbänden. *Math. Z.* 108 (1969), 129-136. (B. Artmann) 39 #2672

* Kongruenzklassengeometrien. Lecture Notes in Mathematics, Vol. 113. *Springer-Verlag, Berlin-New York,* 1970. iii + 99 *pp.* (B. Artmann) 41 #6759

(with Michler, Gerhard) Die primitiven Klassen arithmetische Ringe. *Math. Z.* 113 (1970), 369-372. (A. Rosenberg) 41 #5420

(with Werner, Heinrich) Charakterisierungen der primitiven Klassen arithmetischer Ringe. *Math. Z.* 115 (1970), 197-200. (A. Rosenberg) 42 #318

Willems, Jacques L.

(with Brockett, R. W.) Frequency domain stability criteria. I. *IEEE Trans. Automatic Control* AC-10 (1965), 255-261. (B. Porter) 32 #3883

(with Brockett, R. W.) Frequency domain stability criteria. II. *IEEE Trans. Automatic Control* AC-10 (1965), 407-413. (B. Porter) 32 #3884

The stability of oscillations in nonlinear networks. *IEEE Trans. Circuit Theory* CT-15 (1968), 284-286. (Author's summary) 40 #1200

The computation of finite stability regions by means of open Liapunov surfaces. *Internat. J. Control* (1) 10 (1969), 537-544. (E. B. Lee) 41 #6596

A general stability criterion for non-linear time-varying feedback systems. *Internat. J. Control* (1) 11 (1970), 625-631. 42 #7332

On generalisations of the Popov criterion. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 5 (1970), 131-141. (B. J. Leon) 42 #8996

Direct methods for transient stability studies in power system analysis. *IEEE Trans. Automatic Control* AC-16 (1971), 332-341. (W. D. Collins) 44 #6369

Willems, Jan C.

(with Brockett, Roger W.) Some new rearrangement inequalitie having application in stability analysis. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 755-768. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #3943

On the asymptotic stability of the null solution of linear differential equations with periodic coefficients. *IEEE Trans. Automatic Control* AC-13 (1968), 65-72. (J. S. W. Wong) 37 #6557

(with Brockett, Roger W.) Some new rearrangement inequalitie having application in stability analysis. *IEEE Trans. Automatic Control* AC-13 (1968), 539-549. (Daniel J. Kleitman) 41 #6881

Some results on the L_p stability of linear time-varying systems. *IEEE Trans. Automatic Control* AC-14 (1969), 660-665. (I. H. Mufti) 44 #1472

Stability, instability, invertibility and causality. *SIAM J. Control* 7 (1969), 645-671. (Leonard Weiss) 43 #1689

Willett, D. W.

(with Wong, J. S. W.) On the discrete analogues of some generalizations of Gronwall's inequality. *Monatsh. Math.* 69 (1965), 362-367. (T. E. Hull) 32 #2644

A linear generalization of Gronwall's inequality. *Proc. Ame Math. Soc.* 16 (1965), 774-778. (W. T. Reid) 31 #5953

On a nonlinear boundary value problem with a small parameter multiplying the highest derivative. *Arch. Rational Mech. Anal.* 23 (1966), 276-687. (W. Wasow) 34 #6255

(with Meir, A.; Wong, J. S. W.) A stability condition for $y'' + p(x)y = 0$. *Michigan Math. J.* 13 (1966), 169-170. (C. S. Coleman) 32 #7885

On an example in second order linear ordinary differential equations. *Proc. Amer. Math. Soc.* 17 (1966), 1263-1266. (A. Meir) 34 #1612

(with Wong, J. S. W.) The boundedness of solutions of the equation $\ddot{x} + f(x, \dot{x}) + g(x) = 0$. *SIAM J. Appl. Math.* 14 (1966), 1084-1098. (T. L. Sherman) 34 #7901

(with Meir, A.; Wong, J. S. W.) On the asymptotic behavior of the solutions of $x'' + a(t)x = 0$. *Michigan Math. J.* 14 (1967), 47-52. (G. Sansone) 35 #463

(with Wong, J. S. W.) Some boundedness and unboundedness results for the equation $x'' + a(t)x^{2n-1} = 0$. *Monatsh. Math.* 71 (1967), 461-465. (W. R. Utz) 37 #509

Uniqueness of solutions of boundary value problems. *SIAM Rev.* 9 (1967), 726-728. (T. L. Sherman) 37 #3093

The existence-uniqueness theorem for an *n*th order linear ordinary differential equation. *Amer. Math. Monthly* 75 (1968), 174-178. (R. K. Miller) 37 #1674

(with Coles, W. J.) Summability criteria for oscillation of second order linear differential equations. *Ann. Mat. Pura Appl.* (4) 79 (1968), 391-398. (D. Hinton) 38 #4757

(with Wong, J. S. W.) Some properties of the solutions of $[p(t)x']' + q(t)f(x) = 0$. *J. Math. Anal. Appl.* 23 (1968), 15-24. (J. W. Heidel) 37 #1707

Classification of second order linear differential equations with respect to oscillation. *Advances in Math.* 3, 594-623 (1969). (C. A. Swanson) 43 #6519

Uniqueness for second order nonlinear boundary value problems with applications to almost periodic solutions. *Ann. Mat. Pura Appl.* (4) 81 (1969), 77-92. (Jagdish Chandra) 40 #444

On the oscillatory behavior of the solutions of second order linear differential equations. *Ann. Polon. Math.* 21 (1969), 175-194. (H. C. Howard) 40 #2964

A necessary and sufficient condition for the oscillation of some linear second order differential equations. *Rocky Mountain J. Math.* 1 (1971), no. 2, 357-365. (L. Erbe) 44 #7048

Willett, Robert A.

A new identity between certain products of hypergeometric functions. *Quart. J. Math. Oxford Ser.* (2) 18 (1967), 361-366. (L. J. Slater) 36 #1710

Willey, Raymond S.

(with Johnson, Kenneth A.; Baker, Marshall) Quantum electrodynamics. *Phys. Rev. Lett.* 11 (1963), 518-520. (J. M. Charap) 29 #3157

(with Johnson, Kenneth A.; Baker, M.) Self-energy of the electron. *Phys. Rev.* (2) 136 (1964), B1111-1119. (G. Källén) 31 #4403

William, Jaco

(with Hempel, John) Fundamental groups of 3-manifolds which are extensions. *Ann. of Math.* (2) 95 (1972), 86-98. (S. S. Cairns) 44 #4754

William of Sherwood

(See William of Sherwood's ***Introduction to logic,*** 34 #4101)

Williams, A. C.

Marginal values in linear programming. *J. Soc. Indust. Appl. Math.* 11 (1963), 82-94. (M. L. Balinski) 32 #2197

On stochastic linear programming. *J. Soc. Indust. Appl. Math.* 13 (1965), 927-940. (M. L. Juncosa) 34 #8808 (E)

Approximation formulas for stochastic linear programming. *SIAM J. Appl. Math.* 14 (1966), 668-677. (J. N. Kapur) 34 #5515

Errata: "On stochastic linear programming". *SIAM J. Appl. Math.* 15 (1967), 228. (Editors) 35 #1345

(with Avriel, M.) On the primal and dual constraint sets in geometric programming. *J. Math. Anal. Appl.* 32 (1970), 684-688. (G. Berman) 42 #2801

Boundedness relations for linear constraint sets. *Linear Algebra and Appl.* 3 (1970), 129-141. (A. Ben-Israel) 42 #1515

(with Avriel, M.) The value of information and stochastic programming. *Operations Res.* 18 (1970), 947-954. (Authors' summary) 42 #1521

(with Avriel, M.) Complementary geometric programming. *SIAM J. Appl. Math.* 19 (1970), 125-141. (G. Berman) 42 #2802

Complementarity theorems for linear programming. *SIAM Rev.* 12 (1970), 135-137. (W. F. Tyndall) 41 #3105

Williams, A. O., Jr.

Acoustic field of a circular plane piston. *J. Acoust. Soc. Amer.* 36 (1964), 2408-2410. (Author's summary) 30 #3671

Williams, Britain J.

The effect of truncation on tests of hypotheses for normal populations. *Ann. Math. Statist.* 36 (1965), 1504-1510. (Z. W. Birnbaum) 31 #4127

Williams, C. M.

(with Tyrrell, J. A.) On the pure transcendence of certain fields of rational functions. *Bull. London Math. Soc.* 1 (1969), 75-78. (J. Ohm) 39 #184

Williams, C. R.

(with Cochran, A. C.; Keown, R.) On a class of topological algebras. *Pacific J. Math.* 34 (1970), 17-25. (P. D. Morris) 42 #8278

Williams, C. St J. A. Nash. See Nash-Williams, C. St J. A.

Williams, Christine S. See Ayoub, Christine Williams.

Williams, Clayton D.

(with Bowden, Robert L.) Solution of the initial-value transport problem for monoenergetic neutrons in slab geometry. *J. Mathematical Phys.* 5 (1964), 1527-1540. (G. M. Wing) 30 #925

Williams, D. L.

(with Taylor, B. A.) Ideals in rings of analytic functions with smooth boundary values. *Canad. J. Math.* 22 (1970), 1266-1283. (K. V. Rajeswara Rao) 42 #7905

(with Taylor, B. A.) The peak sets of A^m. *Proc. Amer. Math. Soc.* 24 (1970), 604-606. (Ian Richards) 41 #488

(with Alexander, Herbert; Taylor, B. A.) The interpolating sets for A^∞. *J. Math. Anal. Appl.* 36 (1971), 556-566. (R. B. Burckel) 44 #5494

(with Taylor, B. A.) Zeros of Lipschitz functions analytic in the unit disc. *Michigan Math. J.* 18 (1971), 129-139. (D. A. Brannan) 44 #409

(with Shields, A. L.) Bounded projections, duality, and multipliers in spaces of analytic functions. *Trans. Amer. Math. Soc.* 162 (1971), 287-302. (J. H. Hedlund) 44 #790

Williams, D. R.

(with Murrell, J. N.; Randić, M.) The theory of intermolecular forces in the region of small orbital overlap. *Proc. Roy. Soc. Ser. A* 284 (1965), 566-581. (A. C. Hurley) 31 #2001

Williams, David

The process extended to the boundary. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 2, 332-339 (1964). (A. T. Bharucha-Reid) 29 #2862

On the construction problem for Markov chains. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 227-246 (1964). (A. T. Bharucha-Reid) 30 #2553

A new method of approximation in Markov-chain theory and its application to some problems in the theory of random time substitution. *Proc. London Math. Soc.* (3) 16 (1966), 213-240. (C. Stone) 33 #3358

On the construction problem for Markov chains. II. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 296-299. (A. T. Bharucha-Reid) 34 #3665

Uniform ergodicity in Markov chains. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. II: Contributions to Probability Theory, Part 2*, pp. 187-191. *Univ. California Press, Berkeley, Calif.*, 1967. (J. G. Wendel) 36 #7212a

On local time for Markov chains. *Bull. Amer. Math. Soc.* 73 (1967), 432-433. (J. G. Mauldon) 35 #1092

Local time at fictitious states. *Bull. Amer. Math. Soc.* 73 (1967), 542-544. (J. G. Mauldon) 35 #2356

A note on the *Q*-matrices of Markov chains. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 116-121. (W. E. Pruitt) 37 #2326

Markov properties of Brownian local time. *Bull. Amer. Math. Soc.* 75 (1969), 1035-1036. (J. G. Wendel) 39 #6407

Fictitious states, coupled laws and local time. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 288-310. (J. L. Doob) 39 #6412

On operator semigroups and Markov groups. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 13 (1969), 280-285. (D. A. Darling) 40 #8127

Decomposing the Brownian path. *Bull. Amer. Math. Soc.* 76 (1970), 871-873. (S. J. Taylor) 41 #2777

Williams, David N.

(with Barut, Asim O.; Muzinich, Ivan) Construction of invariant scattering amplitudes for arbitrary spins and analytic continuation in total angular momentum. *Phys. Rev.* (2) 130 1963), 442-457. (A. C. Hearn) 30 #858

The Dirac algebra for any spin. *Lectures in Theoret. Phys., Vol. VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo., 1964)*, pp. 139-172. *Univ. Colorado Press, Boulder, Colo.*, 1965. (Roland Good, Jr.) 32 #3487

(with Minkowski, Peter; Seiler, Rudolf) On Stapp's theorem. *Lectures in Theoret. Phys., Vol. VII A (Summer Inst. Theoret. Phys., Univ. Colorado, Boulder, Colo., 1964)*, pp. 173-189. *Univ. Colorado Press, Boulder, Colo.*, 1965. (John G. Taylor) 34 #5430

Energy-momentum conservation implies translation invariance: Some didactic rematks. *J. Mathematical Phys.* 8 (1967), 1807-1816. (V. de Alfaro) 37 #1139

Macroscopic causality and permanence of smoothness for two-particle scattering. *Lectures in Theoretical Physics. Vol. XB: High Energy Physics and Fundamental Particles (Proceedings Tenth Boulder Summer Institute for Theoretical Physics, Univ. Colorado, Boulder, Colo., 1967), pp.* 357-376. *Gordon and Breach, New York,* 1968. (R. F. Stora) 40 #6893

(with Yao, York-peng) Analytic form factors for any spin. *Phys. Rev. D* (3) 1 (1970), 1380-1388. (G. Barton) 41 #4937

Williams, E. J.

(with Pitman, E. J. G.) Cauchy-distributed functions of Cauchy variates. *Ann. Math. Statist.* 38 (1967), 916-918. (Bernard Harris) 35 #1060

The analysis of association among many variates. (With discussions) *J. Roy. Statist. Soc. Ser. B* 29 (1967), 199-242. (L. J. Gleser) 36 #3456

Cauchy-distributed functions and a characterization of the Cauchy distribution. *Ann. Math. Statist.* 40 (1969), 1083-1085. (L. A. Aroian) 39 #4978

Williams, F. W.

(with Wittrick, W. H.) A general algorithm for computing natural frequencies of elastic structures. *Quart. J. Mech. Appl. Math.* 24 (1971), 263-284. (H. E. Fettis) 44 #6195

Williams, Francis D.

A characterization of spaces with vanishing generalized higher Whatehead products. *Bull. Amer. Math. Soc.* 74 (1968), 497-499. (R. M. F. Moss) 36 #5944

Higher homotopy-commutativity. *Trans. Amer. Math. Soc.* 139 (1969), 191-206. (I. M. James) 39 #2163

Higher homotopy commutativity and extension of maps. *Proc. Amer. Math. Soc.* 26 (1970), 664-670. (J. W. Rutter) 42 #8491

A theorem on homotopy-commutativity. *Michigan Math. J.* 18 (1971), 51-53. (R. E. Mosher) 43 #2703

Williams, G. Kenneth

Non-analytic functions of two complex variables. *Duke Math. J.* 34 (1967), 249-254. (P. T. Church) 35 #1818

On continuity in two variables. *Proc. Amer. Math. Soc.* 23 (1969), 580-582. (G. V. Welland) 40 #397

Continuous and proper decompositions. *Proc. Amer. Math. Soc.* 28 (1971), 267-270. (R. Bennett) 42 #8461

Williams, Gareth

A discussion of the Jacobi canonical matrix. Representation of a linear operator. *Matrix Tensor Quart.* 17 (1966/67), 69-74. (M. Pearl) 35 #2913

A rotating disk in a conformally flat, isotropic space. *Matrix Tensor Quart.* 20 (1969/70), 39-43. (C. Gilbert) 41 #8007

Williams, H. C.

(with Stanton, R. G.; Zarnke, C. R.) A packing problem. *Canad. Math. Bull.* 10 (1967), 287-297. (F. Supnick) 35 #7208

(with Zarnke, C. R.) A report on prime numbers of the forms $M = (6a + 1)2^{2m - 1} - 1$ and $M' = (6a - 1)2^{2m} - 1$. *Math. Comp.* 22 (1968), 420-422. (H. Gupta) 37 #2680

A generalization of the Fibonacci numbers. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 340-356. *Louisiana State Univ., Baton Rouge, La.,* 1970. (N. J. A. Sloane) 43 #4758

Note on a diophantine equation. *Elem. Math.* 25 (1970), 123-125. (J. W. S. Cassels) 43 #3207

Some properties of the general Lucas polynomials. *Matrix Tensor Quart.* 21 (1971), 91-93, 82. (A. D. Porter) 44 #2767

Williams, Henry F.

On the evaluation of functions of a real matrix. *J. Franklin Inst.* 285 (1968), 395-398. (J. S. Frame) 37 #2426

Williams, I. P.

The diameter of quasi-stellar radio sources. *Phys. Lett.* 14 (1965), 19-21. (D. W. Sciama) 32 #3839

Williams, J. G.

Topological analysis of a nonlinear field theory. *J. Mathematical Phys.* 11 (1970), 2611-2616. (G. R. Allcock) 42 #8831

Conserved particle structures in general relativity. *J. Mathematical Phys.* 12 (1971), 308-313. (C. W. Kilmister) 43 #5883

Williams, J. H.

(with Purdom, P. W.) Cycle lingth in a random function. *Trans. Amer. Math. Soc.* 133 (1968), 547-551. (J. Riordan) 37 #3616

Williams, J. H. Sims. See Sims-Williams, J. H.

Williams, J. S.

The role of probability in fiducial inference. *Sankhyā Ser. A* 28 (1966), 271-296. (Robert J. Buehler) 35 #1129

An example of the misapplication of conditional densities. *Sankhyā Ser. A* 28 (1966), 297-300. (Robert J. Buehler) 35 #1064

The variance of weighted regression estimators. *J. Amer. Statist. Assoc.* 62 (1967), 1290-1301. (M. J. Karson) 36 #6075

Williams, James P.

(with Porter, W. A.) A note on the minimum effort control problem. *J. Math. Anal. Appl.* 13 (1966), 251-264. (A. V. Balakrishnan) 33 #5382

(with Porter, W. A.) Extensions of the minimum effort contr problem. *J. Math. Anal. Appl.* 13 (1966), 536-549. (A. V. Balakrishnan) 33 #5383

Minimal spectral sets of compact operators. *Acta Sci. Math. (Szeged)* 28 (1967), 93-106. (B. Sz.-Nagy) 36 #725

(with Crimmins, T.) On the numerical radius of a linear operator. *Amer. Math. Monthly* 74 (1967), 832-833. (K. Gustafson) 36 #5725

Spectra of products and numerical ranges. *J. Math. Anal. Appl.* 17 (1967), 214-220. (A. Lebow) 34 #3341

A "metric" characterization of reflexivity. *Proc. Amer. Math Soc.* 18 (1967), 163-165. (R. C. James) 34 #4879

Schwarz norms for operators. *Pacific J. Math.* 24 (1968), 181-188. (I. Kovács) 37 #761

(with Stampfli, J. G.) Growth conditions and the numerical range in a Banach algebra. *Tôhoku Math. J.* (2) 20 (1968), 417-424. (S. K. Berberian) 39 #4674

Similarity and the numerical range. *J. Math. Anal. Appl.* 26 (1969), 307-314. (Morris Schreiber) 39 #2010

(with Radjavi, Heydar) Products of self-adjoint operators. *Michigan Math. J.* 16 (1969), 177-185. (C. R. Putnam) 39 #6115

Operators similar to their adjoints. *Proc. Amer. Math. Soc.* 20 (1969), 121-123. (S. K. Berberian) 38 #1552

Finite operators. *Proc. Amer. Math. Soc.* 26 (1970), 129-136. (J. A. Erdos) 41 #9039

On compressions of matrices. *J. London Math. Soc.* (2) 3 (1971), 526-530. (E. Durszt) 44 #847

Williams, Jean M.

(with Weiler, H.) Further charts for the means of truncated normal bivariate distributions. *Austral. J. Statist.* 6 (1964), 117-129. (Z. W. Birnbaum) 32 #4765

Williams, Kenneth S.

A note on the quadratic form $ax^2 + 2bxy + cy^2$. *Math. Gaz.* 48 (1964), 290-291. (D. J. Lewis) 29 #4735

(with Chalk, J. H. H.) The distribution of solutions of congruences. *Mathematika* 12 (1965), 176-192. (B. J. Birch) 32 #7526 (E)

On the number of solutions of a congruence. *Amer. Math. Monthly* 73 (1966), 44-49. (T. Hayashida) 34 #139

Eisenstein's criteria for absolute irreducibility over a finite field. *Canad. Math. Bull.* 9 (1966), 575-580. (L. Carlitz). 34 #4257

A sum of fractional parts. II. *J. Natur. Sci. and Math.* 6 (1966), 209-216. (L. C. Eggan) 36 #2565b

On the least non-residue of a quartic polynomial. *Proc. Cambridge Philos. Soc.* 62 (1966), 429-431. (H. J. Godwin) 33 #1280

A sum of fractional parts. *Amer. Math. Monthly* 74 (1967), 978-980. (L. C. Eggan) 36 #2565a

Pairs of consecutive residues of polynomials. *Canad. J. Math.* 19 (1967), 655-666. (S. L. Segal) 35 #4194

(with McCann, K.) On the residues of a cubic polynomial (mod p). *Canad. Math. Bull.* 10 (1967), 29-38. (I. Niven) 35 #2816

On a theorem of Niven. *Canad. Math. Bull.* 10 (1967), 573-578. (I. Niven) 37 #138

On general polynomials. *Canad. Math. Bull.* 10 (1967), 579-583. (John H. Hodges) 37 #2731

On extremal polynomials. *Canad. Math. Bull.* 10 (1967), 585-594. (John H. Hodges) 37 #2732

(with McCann, K.) The distribution of the residues of a quartic polynomial. *Glasgow Math. J.* 8 (1967), 67-88. (L. Carlitz) 36 #2599

An elementary number-theoretic formula. *Math. Student* 35 (1967), 47-50 (1969). (B. Garrison) 40 #4191

Quadratic polynomials with the same residues. *Amer. Math. Monthly* 75 (1968), 969-973. (B. M. Stewart) 38 #4399

Note on pairs of consecutive residues of polynomials. *Canad. Math. Bull.* 11 (1968), 79-83. (S. L. Segal) 38 #2082

Addendum to: "On a theorem of Niven". *Canad. Math. Bull.* 11 (1968), 145. (I. Niven) 37 #5152

On exceptional polynomials. *Canad. Math. Bull.* 11 (1968), 279-282. (John H. Hodges) 38 #140

(with McCann, K.) Cubic polynomials with the same residues (mod p). *Proc. Cambridge Philos. Soc.* 64 (1968), 655-658. (I. Niven) 37 #191

Distinct values of a polynomial in subsets of a finite field. *Canad. J. Math.* 21 (1969), 1483-1488. (R. J. McEliece) 40 #4245

Polynomials with irreducible factors of specified degree. *Canad. Math. Bull.* 12 (1969), 221-223. (P. Abellanas) 39 #5520

Small solutions of the congruence $ax^2 + by^2 \equiv c \pmod{k}$. *Canad. Math. Bull.* 12 (1969), 311-320. (H. London) 40 #2598

On two conjectures of Chowla. *Canad. Math. Bull.* 12 (1969), 545-565. (J. H. H. Chalk) 40 #7227

Note on factorable polynomials. *Canad. Math. Bull.* 12 (1969), 589-595. (W. Ljunggren) 40 #4244

(with Chalk, J. H. H.) The distribution of solutions of congruences: Corrigendum and addendum. *Mathematika* 16 (1969), 98-100. (I. Danicic) 40 #2595

On a result of Libri and Lebesgue. *Amer. Math. Monthly* 77 (1970), 610-613. (M. S. Cheema) 41 #6770

Integers of biquadratic fields. *Canad. Math. Bull.* 13 (1970), 519-526. (W. J. Ellison) 43 #4795

Finite transformation formulae involving the Legendre symbol. *Pacific J. Math.* 34 (1970), 559-568. (D. Rearick) 42 #4513

Note on Dickson's permutation polynomials. *Duke Math. J.* 38 (1971), 659-665. (S. D. Cohen) 44 #5299

A class of character sums. *J. London Math. Soc.* (2) 3 (1971), 67-72. (L. Carlitz) 43 #1932

A distribution property of the solutions of a congruence modulo a large prime. *J. Number Theory* 3 (1971), 19-32. (J. M. Gandhi) 42 #7636

On Salié's sum. *J. Number Theory* 3 (1971), 316-317. (M. S. Cheema) 44 #3951

Note on a theorem of Pall. *Proc. Amer. Math. Soc.* 28 (1971), 315-316. (R. Tijdeman) 43 #3229

Note on the Kloosterman sum. *Proc. Amer. Math. Soc.* 30 (1971), 61-62. (R. A. Smith) 44 #2719

Note on Salié's sum. *Proc. Amer. Math. Soc.* 30 (1971), 393-394. (R. A. Smith) 44 #1635

Williams, M. M. R.

An exact solution of the two group Milne problem by the method of Wiener and Hopf. *J. Math. and Phys.* 45 (1966), 64-76. (N. F. Sather) 33 #1123

On an integral equation arising in the theory of neutron streaming. *Proc. Cambridge Philos. Soc.* 64 (1968), 447-453. (P. M. Anselone) 37 #711

The temperature distribution in a radiating fluid flowing over a flat plate. *Quart. J. Mech. Appl. Math.* 22 (1969), 487-500. (R. S. B. Ong) 41 #6466

(with Spain, J.) Space-eigenvalue problems in the kinetic theory of gases. *J. Fluid Mech.* 42 (1970), 85-95. (S. Harris) 44 #5060

Williams, Mary B.

Deducing the consequences of evolution: A mathematical model. *J. Theoret. Biol.* 29 (1970), *no.* 3, 343-385. (I. M. H. Etherington) 43 #4494

Williams, Michael Z.

Some results on the differential-difference equation $\dot{x}(t) = \sum_{i=0}^{N} A_i x(t - T_i)$. *J. Math. Anal. Appl.* 15 (1966), 569-587. (J. C. Lillo) 33 #6046

Williams, N. H.

On Grothendieck universes. *Compositio Math.* 21 (1969), 1-3. (A. Máté) 39 #5352

An order property of partition cardinals. *Bull. Austral. Math. Soc.* 3 (1970), 171-178. (J. E. Rubin) 42 #5804

illiams, P. G.

(with Catherall, D.; Stewartson, K.) Viscous flow past a flat plate with uniform injection. *Proc. Roy. Soc. Ser. A* 284 (1965), 370-396. (O. R. Burggraf) 30 #5600

illiams, Peter N.

Goodman's paradox and rules of acceptance. *Philos. Sci.* 36 (1969), 311-315. 40 #1237

illiams, Richard K.

Some theorems on expansive homeomorphisms. *Amer. Math. Monthly* 73 (1966), 854-856. (W. R. Utz) 34 #792

Expansive mappings. *Amer. Math. Monthly* 75 (1968), 522-523. (Editors) 37 #5858

On expansive homeomorphisms. *Amer. Math. Monthly* 76 (1969), 176-178. (B. F. Bryant) 38 #6554

A note on expansive mappings. *Proc. Amer. Math. Soc.* 22 (1969), 145-147. (B. F. Bryant) 39 #3477

Some results on expansive mappings. *Proc. Amer. Math. Soc.* 26 (1970), 655-663. (W. L. Reddy) 42 #1094

lliams, Robert E.

A note on near-rings over vector spaces. *Amer. Math. Monthly* 74 (1967), 173-175. (W. A. McWorter) 34 #5886

Sur une question de P. M. Cohn. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A79-A80. (P. M. Cohn) 37 #6312

A note on weak Bezout rings. *Proc. Amer. Math. Soc.* 19 (1968), 951-952. (S. S. Page) 37 #4108

A note on rings with a weak algorithm. *Bull. Amer. Math. Soc.* 75 (1969), 959-961. (P. M. Cohn) 40 #7308

On the free product of rings with weak algorithm. *Proc. Amer. Math. Soc.* 23 (1969), 596-597. (J. Knopfmacher) 40 #1417

lliams, Robert F.

(with Mahowald, M. E.) The stable homotopy of $K(Z, n)$. *Bol. Soc. Mat. Mexicana* (2) 11 (1966), 22-28. (J. Stasheff) 38 #3867

One-dimensional non-wandering sets. *Topology* 6 (1967), 473-487. (W. R. Utz) 36 #897

The construction of certain 0-dimensional transformation groups. *Trans. Amer. Math. Soc.* 129 (1967), 140-156. (P. S. Mostert) 35 #3002

The zeta function of an attractor. *Conference on the Topology of Manifolds (Michigan State Univ., E. Lansing, Mich., 1967), pp.* 155-161. *Prindle, Weber & Schmidt, Boston, Mass.,* 1968. (J. W. Robbin) 38 #3877

Compact non-Lie groups. *Proc. Conf. on Transformation Groups (New Orleans, La.,* 1967*), pp.* 366-369. *Springer, New York,* 1968. (Deane Montgomery) 39 #7030

Expanding attractors. *Colloque de Topologie Différentielle (Mont-Aigoual,* 1969*), pp.* 79-89. *Université de Montpellier, Montpellier,* 1969. (Karl Sigmund) 44 #4784

(with Shub, Michael) Future stability is not generic. *Proc. Amer. Math. Soc.* 22 (1969), 483-484. (W. R. Utz) 39 #3526

The "DA" maps of Smale and structural stability. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 329-334. *Amer. Math. Soc., Providence, R. I.,* 1970. (W. R. Utz) 41 #9296

Classification of one dimensional attractors. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 341-361. *Amer. Math. Soc., Providence, R. I.,* 1970. (W. R. Utz) 42 #1134

Zeta function in global analysis. *Global Analysis (Proc. Sympos. Pure Math., Vol. XIV, Berkeley, Calif.,* 1968*), pp.* 335-339. *Amer. Math. Soc., Providence, R. I.,* 1970. (K. R. Meyer) 42 #1159

Williams, S. A.

(with Weber, T. A.) Spin-matrix polynomials and the rotation operator for arbitrary spin. *J. Mathematical Phys.* 6 (1965), 1980-1983. (C. G. Bollini) 32 #6899

(with Kemmer, N.; Pursey, D. L.) Irreducible representations of the five-dimensional rotation group. I, II. *J. Mathematical Phys.* 9 (1968), 1224-1230; *ibid.* 9 (1968), 1230-1240. (S. Datta Majumdar) 38 #3002

A sharp sufficient condition for solution of a nonlinear elliptic boundary value problem. *J. Differential Equations* 8 (1970), 580-586. (H. Beckert) 42 #2169

Williams, Scott W.

Completeness for all. *Proc. Washington State Univ. Conf. on General Topology (Pullman, Wash.,* 1970*), pp.* 127-136. *Pi Mu Epsilon, Dept. of Math., Washington State Univ., Pullman, Wash.,* 1970. (M. G. Murdeshwar) 42 #5224

Williams, Stephen A.

A connection between the Cesari and Leray-Schauder methods. *Michigan Math. J.* 15 (1968), 441-448. (J. K. Hale) 38 #5085

An index for set-valued maps in infinite-dimensional spaces. *Proc. Amer. Math. Soc.* 31 (1972), 557-563. (R. E. Smithson) 44 #4739

Williams, T. W.

(with Maxwell, L. M.) The decomposition of a graph and the introduction of a new class of subgraphs. *SIAM J. Appl. Math.* 20 (1971), 385-389. (R. C. Read) 44 #5243

Williams, Trevor

The simple stochastic epidemic curve for large populations of susceptibles. *Biometrika* 52 (1965), 571-579. (K. Dietz) 34 #7226

The distribution of response times in a birth-death process. *Biometrika* 52 (1965), 581-585. (K. Dietz) 34 #6891

The basic birth-death model for microbial infections. *J. Roy. Statist. Soc. Ser. B* 27 (1965), 338-360. (K. Dietz) 34 #2350

(with Ancker, C. J., Jr.) Some discrete processes in the theory of stochastic duels. *Operations Res.* 13 (1965), 202-216. (M. Dresher) 31 #2078

(with Nelsen, Roger B.) Random displacements of regularly spaced events. *J. Appl. Probability* 7 (1970), 183-195. (S. Ekberg) 41 #4692

Williams, V. C.

On conformal maps of infinitely connected Dirichlet regions. *Trans. Amer. Math. Soc.* 155 (1971), 427-453. (R. J. Sibner) 43 #6417

Williams, Valerie

(with Edmunds, D. E.) Hyperbolic differential inequalities. *J. London Math. Soc.* 42 (1967), 687-697. (P. Ungar) 36 #532

Williams, Vernon

Operators from Banach spaces to complex interpolation spaces. *Proc. Amer. Math. Soc.* 26 (1970), 248-254. (C. Goulaouic) 42 #880

Generalized interpolation spaces. *Trans. Amer. Math. Soc.* 156 (1971), 309-334. (S. Newberger) 43 #906

Williams, W.

(with Parke, N. G.; Moran, D. A.; Sherman, Charles H.) Acoustic radiation from a finite cylinder. *J. Acoust. Soc. Amer.* 36 (1964), 2316-2322. (Gerald A. Brigham) 31 #2938

Williams, W. Elwyn

The solution of certain dual integral equations. *Proc. Edinburgh Math. Soc.* (2) 12 (1960/61), 213-216. (B. R. Bhonsle) 32 #8075

The solution of dual series and dual integral equations. *Proc. Glasgow Math. Assoc.* 6. 123-129 (1964). (A. E. Danese) 29 #3844

Note on the scattering of long waves in a rotating system. *J. Fluid Mech.* 20 (1964), 115-119. (Author's summary) 29 #4348

Approximate solutions of boundary value problems in potential theory with applications to electrostatics and elastostatics. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 89-101. (L. E. Payne) 31 #369

Integral equation formulation of Oseen flow problems. *J. Inst. Math. Appl.* 1 (1965), 339-347. (A. F. Messiter) 32 #8669

A note on diffraction by a right-angled wedge. *Proc. Cambridge Philos. Soc.* 61 (1965), 275-278. (A. E. Heins) 30 #1689

Diffraction in an anisotropic medium. *Quart. J. Mech. Appl. Math.* 18 (1965), 121-128. (Y. M. Chen) 30 #4483

Boundary effects in Stokes flow. *J. Fluid Mech.* 24 (1966), 285-291. (H. Brenner) 32 #8624

Electromagnetic diffraction in an anisotropic medium. *J. Inst. Math. Appl.* 2 (1966), 186-196. (R. E. Kleinman) 35 #7646

Note on the scattering of water waves by a vertical barrier. *Proc. Cambridge Philos. Soc.* 62 (1966), 507-509. (F. Ursell) 33 #6934

Two dimensional mixed boundary-value problems in a wedge-shaped region. *Proc. Cambridge Philos. Soc.* 64 (1968), 503-505. (A. Leonard) 37 #620

Williams, Wiley

(with Lawson, Jimmie D.) Topological semilattices and their underlying spaces. *Semigroup Forum* 1 (1970), *no.* 3, 209-223. (J. D. McCharen) 42 #3221

Williams, William O.

(with Gurtin, Morton E.) On the inclusion of the complete symmetry group in the unimodular group. *Arch. Rational Mech. Anal.* 23 (1966), 163-172. (A. C. Pipkin) 37 #7121

(with Gurtin, Morton E.) An axiomatic foundation for continuum thermodynamics. *Arch. Rational Mech. Anal.* 26 (1967), 83-117. (C.-C. Wang) 35 #5186

(with Gurtin, Morton E.; Mizel, Victor J.) A note on Cauchy's stress theorem. *J. Math. Anal. Appl.* 22 (1968), 398-401. (S. C. Mitra) 37 #1110

Thermodynamics of rigid continua. *Arch. Rational Mech. Anal.* 36 (1970), 270-284. (C.-C. Wang) 41 #6477

Williamson, David

Stability of difference approximations to certain partial differential equations of fluid dynamics. *J. Computational Phys.* 1 (1966), 51-67. (R. Nicolovius) 35 #2554

Williamson, Eric

* (with Bretherton, Michael H.) Tables of the negative binomail probability distribution. *(John Wiley & Sons, London-New York,* 1963. 275 *pp.* (H. L. Harter) 29 #681

Williamson, J. H.

Banach algebra elements with independent powers, and theorems of Wiener-Pitt type. *Function Algebras (Proc. Internat. Sympos. on Function Algebras, Tulane Univ.,* 1965*), pp.* 186-197. *Scott-Foresman, Chicago, Ill.,* 1966. (J. F. Smith) 33 #6302

Harmonic analysis on semigroups. *J. London Math. Soc.* 42 (1967), 1-41. (Št. Schwarz) 34 #8101

Raikov systems. *Symposia on Theoretical Physics and Mathematics, Vol.* 8 *(Symposium, Madras,* 1967*), pp.* 173-183. *Plenum, New York,* 1968. (D. E. Ramirez) 38 #6308

Raikov systems and the pathology of $M(R)$. *Studia Math.* 31 (1968), 399-409. (Edwin Hewitt) 38 #6309

Williamson, Jack

(with Hellerstein, Simon) Entire functions with negative zeros and a problem of R. Nevanlinna. *J. Analyse Math.* 22 (1969), 233-267. (Fred Gross) 40 #356

(with Hellerstein, Simon; Shea, Daniel F.) A tauberian theorem characterizing the regularity of growth of a class of entire functions. *Duke Math. J.* 37 (1970), 489-499. (T. Sato) 42 #4734

Remarks on the maximum modulus of an entire function with negative zeros. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 497-512. (A. Baillette) 42 #7900

Williamson, John A.

Some renewal theorems for non-negative independent random variables. *Trans. Amer. Math. Soc.* 114 (1965), 417-445. (M. Dwass) 31 #2771

A relation between a class of limit laws and a renewal theorem. *Illinois J. Math.* 10 (1966), 210-219. (T. Kawata) 33 #3379

Random walks and Riesz kernels. *Pacific J. Math.* 25 (1968), 393-415. (A. Fuch) 37 #2328

(with Rinehart, G. S.) Remarks on the periodic behavior in time of sums of random variables. (Russian summary) *Teor. Verojatnost. i Primenen.* 14 (1969), 719-722. (H. Heyer) 43 #557

Fluctuations when $E(|X_1|) = \infty$. *Ann. Math. Statist.* 41 (1970), 865-875. (V. K. Rohatgi) 41 #9322

Williamson, Ralph E.

A remark on a theorem of Banach. *Studia Math.* 25 (1965), 367. (Edwin Hewitt) 31 #3844

Williamson, Richard E.

(with Koopmans, Tjalling C.; Diamond, Peter A.) Stationary utility and time perspective. *Econometrica* 32 (1964), 82-100. (A. C. Cohen) 31 #5304

(with Koopmans, Tjalling C.) On the existence of a subinvariant measure. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 84-87. (A. Hajian) 32 #182

Williamson, Robert E., Jr.

Cobordism of combinatorial manifolds. *Ann. of Math.* (2) 83 (1966), 1-33. (M. W. Hirsch) 32 #1715

Surgery in $M \times N$ with $\pi_1 M \neq 1$. *Bull. Amer. Math. Soc.* 75 (1969), 582-585. (H. R. Gluck) 39 #4859

Williamson, S. E.

(with Lovering, W. F.) The root-loci of four pole systems. *Internat. J. Control* (1) 10 (1969), 625-643. (Authors' summary) 40 #3944

Williamson, S. G.

A conbinatorial property of finite sequences with an application to tensor algebra. *J. Combinatorial Theory* 1 (1966), 401-410. (B. N. Moyls) 35 #211

Some remarks on a class of matrix inequalities. *Proc. Amer. Math. Soc.* 19 (1968), 673-677. (L. Mirsky) 37 #229

On a class of combinatorial inequalities. *J. Combinatorial Theory* 6 (1969), 359-369. (Marvin Marcus) 39 #233

Tensor contraction and hermitian forms. *Linear Algebra and Appl.* 2 (1969), 335-347. (P. Botta) 40 #171

Operator theoretic invariants and the enumeration theory of Pólya and de Bruijn. *J. Combinatorial Theory* 8 (1970), 162-169. (D. A. Klarner) 40 #5461

(with Botta, Peter) Unitary similarity of symmetry operator *Linear Algebra and Appl.* 3 (1970), 249-256. (A. O. Morris) 43 #237

Symmetry operators of Kranz products. *J. Combinatorial Theo Ser. A* 11 (1971), 122-138. (Marvin Marcus) 44 #240

Pólya's counting theorem and a class of tensor identities. *J. London Math. Soc.* (2) 3 (1971), 411-421. (Marvin Marcus) 44 #241

Williamson, Susan

Crossed products and hereditary orders. *Nagoya Math. J.* 23 (1963), 103-120. (A. Rosenberg) 29 #1242

Crossed products and maximal orders. *Nagoya Math. J.* 25 (1965), 165-174. (A. Brumer) 32 #137

Crossed products and ramification. *Nagoya Math. J.* 28 (1966), 85-111. (A. Brumer) 37 #1363

Equivalence classes of maximal orders. *Nagoya Math. J.* 31 (1968), 131-171. (H. Yanagihara) 36 #3819

Π-principal hereditary orders. *Nagoya Math. J.* 32 (1968), 41-65. (H. Yanagihara) 37 #6356

Ramification theory for extensions of degree p. *Nagoya Mat J.* 41 (1971), 149-168. (E. Inaba) 43 #1954

Willig, Paul

On trace norms in factors of type II. *Comm. Pure Appl. Mat* 21 (1968), 585-590. (Z. Takeda) 38 #2614

Trace norms, global properties, and direct integral decompositions of W-* algebras. *Comm. Pure Appl. Math.* 22 (1969), 839-862. (Z. Takeda) 42 #5063

$B(H)$ is very noncommutative. *Proc. Amer. Math. Soc.* 24 (197 204-205. (M. Takesaki) 40 #1789

Properties Γ and L for type II_1 factors. *Proc. Amer. Math. Soc.* 25 (1970), 836-837. (H. Halpern) 41 #4266

Property P and direct integral decomposition of W-* algebras *Proc. Amer. Math. Soc.* 29 (1971), 494-498. (H. Porta) 43 #5321

Property L and direct integral decompositions of W-* algebra *Proc. Amer. Math. Soc.* 30 (1971), 87-91. (G. Maltese) 44 #3137

Willis, B. H.

(with Brockett, R. W.) The frequency domain solution of regulator problems. *IEEE Trans. Automatic Control* AC-10 (1965), 262-267. 32 #2246

Willis, Charles R.

A model of interacting radiation and matter. *J. Mathematic Phys.* 5 (1964), 1241-1252. (W. K. R. Watson) 31 #1059

A model of interacting radiation and matter. II. *J. Mathematical Phys.* 6 (1965), 1984-1994. (W. K. R. Watson) 33 #1085

Model of interacting radiation and matter. III. Multimode gas lasers. *J. Mathematical Phys.* 7 (1966), 404-412. (W. K. R. Watson) 33 #1086 illis, D. M.

The statistics of a particular non-homogeneous Poisson process. *Biometrika* 51 (1964), 399-404. (W. B. Davenport, Jr.) 30 #3563

A property of the zeros of a cross-product of Bessel functions. *Proc. Cambridge Philos. Soc.* 61 (1965), 425-428. (C. J. Bouwkamp) 30 #4997

illis, D. Roger

Mass flow through a circular orifice and a two-dimensional slit at high Knudsen numbers. *J. Fluid Mech.* 21 (1965), 21-31. (P. L. Bhatnagar) 30 #1812

(with Hamel, Bernard B.) Kinetic theory of source flow expansion with application to the free jet. *Phys. Fluids* 9 (1966), 829-841. (L. Finkelstein) 33 #5210

illis, David G.

Computational complexity and probability constructions. *J. Assoc. Comput. Mach.* 17 (1970), 241-259. (L. Bass) 43 #4579

illis, J. R.

Anisotropic elastic inclusion problems. *Quart. J. Mech. Appl. Math.* 17 (1964), 157-174. (From the author's summary) 31 #1807

The elastic interaction energy of dislocation loops in anisotropic media. *Quart. J. Mech. Appl. Math.* 18 (1965), 419-433. (F. R. N. Nabarro) 33 #2042

Hertzian contact of anisotropic bodies. *J. Mech. Phys. Solids* 14 (1966), 163-176. (Author's summary) 33 #3516

The distribution of stress in an anisotropic elastic body containing an exterior crack. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 559-574. (Yi-Yuan Yu) 44 #4969

Interfacial stresses induced by arbitrary loading of dissimilar elastic half-spaces joined over a circular region. *J. Inst. Math. Appl.* 7 (1971), 179-197. (F. Erdogan) 44 #3565

llke, T. A.

(with Thompson, W. A., Jr.) On an extreme rank sum test for outliers. *Biometrika* 50 (1963), 375-383. (D. Teichroew) 30 #3548

General application of Youden's rank sum test for outliers and tables of one-sided percentage points. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 55-58. (J. Hájek) 29 #5352

A note on contaminated samples of size three. *J. Res. Nat. Bur. Standards Sect. B.* 70B (1966), 149-151. (T. S. Ferguson) 34 #5216

llman, Warren W.

Formal solutions for a class of stochastic pursuit--evasion games. *IEEE Trans. Automatic Control* AC-14 (1969), 504-509. (From the author's summary) 42 #8929

Conflict and decentralization in stochastic differential games. *Differential Games: Theory and Applications (Symposium, Atlanta, Ga.,* 1970*), pp.* 79-93. *Amer. Soc. Mech. Engrs., New York,* 1970. (C. P. Tsokos) 42 #2817

Some effects of measurement uncertainty in linear multistage games. *SIAM J. Control* 9 (1971), 274-286. (I. V. Beiko) 44 #7987

llmore, Thomas James

The definition of Lie derivative. *Proc. Edinburgh Math. Soc.* (2) 12 (1960/61), 27-29. (K. Yano) 29 #2739

Connexions associated with foliated structures. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 1, 43-47. (R. Hermann) 30 #538

Note on embedded surfaces. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 493-496. (H. B. Griffith) 34 #1940

Harmonic riemannian manifolds with zero scalar curvature. *Arch. Math.* 16 (1965), 98-100. (J. A. Wolf) 31 #3980

(with Saleemi, B. A.) The total absolute curvature of immersed manifolds. *J. London Math. Soc.* 41 (1966), 153-160. (N. H. Kuiper) 32 #3019

Curvature of closed surfaces in E^3. *Acta Ci. Compostelana* 4 (1967), 127-129. (W. F. Pohl) 40 #3480

Mean curvature of immersed surfaces. (Romanian summary) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 14 (1968), 99-103. (H. B. Griffiths) 38 #6496

Note on the Ślebodziński tensor of an almost-complex structure. *J. London Math. Soc.* 43 (1968), 321-322. (K. Yano) 37 #849

2-point invariant functions and k-harmonic manifolds. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1052-1057. (A. G. Walker) 38 #5136

(with El Hadi, K.) k-harmonic symmetric manifolds. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1573-1577. (G. Tsagas) 43 #1088

Mean curvature of riemannian immersions. *J. London Math. Soc.* (2) 3 (1971), 307-310. (N. J. Hicks) 44 #959

llmott, R. C.

(with Rogers, C. A.) On the projection of Souslin sets. *Mathematika* 13 (1966), 147-150. (Z. Frolík) 34 #7752

(with Sion, M.) Hausdorff measures on abstract spaces. *Trans. Amer. Math. Soc.* 123 (1966), 275-309. (J. C. Oxtoby) 34 #297

Some properties of Hausdorff measures on uniform spaces. *Proc. London Math. Soc.* (3) 17 (1967), 513-529. (T. P. Srinivasan) 36 #6588

(with Rogers, C. A.) On the uniformization of sets in topological spaces. *Acta Math.* 120 (1968), 1-52. (A. H. Stone) 38 #6014

On the uniformization of Souslin $\mathscr{F}$ sets. *Proc. Amer. Math. Soc.* 22 (1969), 148-155. (D. C. Kent) 39 #2935

Willner, Leopold B.

The optimization of K-effect models by linear and dynamic programming. *J. Math. Anal. Appl.* 13 (1966), 434-446. (B. Gluss) 34 #7264

An elimination method for computing the generalized inverse. *Math. Comp.* 21 (1967), 227-229. 36 #6131

On the distance between polytopes. *Quart. Appl. Math.* 26 (1968), 207-212. (G. D. Taylor) 37 #6661

Willoughby, Ralph A.

(with Brayton, R. K.) On the numerical integration of a symmetric system of difference-differential equations of neutral type. *J. Math. Anal. Appl.* 18 (1967), 182-189. (K. L. Cooke) 35 #3926

(See also Proceedings of the Symposium on Sparse Matrices and their Applications, 39 #1106)

(with Brayton, Robert K.; Gustavson, Fred G.) Some results on sparse matrices. *Math. Comp.* 24 (1970), 937-954. (Authors' summary) 43 #1396

(with Liniger, Werner) Efficient integration methods for stiff systems of ordinary differential equations. *SIAM J. Numer. Anal.* 7 (1970), 47-66. (C. W. Gear) 41 #4809

Wills, Jörg M.

Widerlegung einer Aussage von E. Borel über diophantische Approximationen. *Math. Z.* 89 (1965), 411-413. (R. P. Bambah) 31 #4764

Note zu einem Borelschen Summationsverfahren. *Math. Z.* 92 (1966), 323-330. (K. Endl) 35 #2022

Zwei Sätze über inhomogene diophantische Approximation von Irrationalzahlen. *Monatsh. Math.* 71 (1967), 263-269. (P. Szüsz) 37 #2697

Zum Restglied der Newton-Gregoryschen Quadraturformel. *Arch. Math. (Basel)* 19 (1968), 174-175. (J. G. Herriot) 37 #7087

Zur simultanen homogenen diophantischen Approximation. I. *Monatsh. Math.* 72 (1968), 254-263. (V. C. Dumir) 38 #2095

Zur simultanen homogenen diophantischen Approximation. II. *Monatsh. Math.* 72 (1968), 368-381. (V. C. Dumir) 38 #2096

Ein Satz über konvexe Mengen und Gitterpunkte. *Monatsh. Math.* 72 (1968), 451-463. (H. Groemer) 39 #865

Symmetrisierung an Unterräumen. *Arch. Math. (Basel)* 20 (1969), 169-172. (G. Ewald) 41 #7540

Analytische Fortsetzung durch ein Limitierungsverfahren. *Math. Z.* 108 (1969), 381-387. (C. G. Lekkerkerker) 40 #318

Ein Satz über konvexe Körper und Gitterpunkte. *Abh. Math. Sem. Univ. Hamburg* 35 (1970), 8-13. (G. D. Chakerian) 43 #8007

Zum Verhältnis von Volumen zu Oberfläche bei konvexen Körpern. *Arch. Math. (Basel)* 21 (1970), 557-560. (H. Groemer) 43 #3923

Zur simultanen homogenen diophantischen Approximation. III. *Monatsh. Math.* 74 (1970), 166-171. (S. Kotov (RŽMat 1970 #10 A112)) 44 #161

Willson, A. J.

On the stability of two superposed fluids. *Proc. Cambridge Philos. Soc.* 61 (1965), 595-607. (W. H. Reid) 30 #4451

Willson, Alan N., Jr.

On the solutions of equations for nonlinear resistive networks. *Bell System Tech. J.* 47 (1968), 1755-1773. (B. J. Leon) 42 #1592

(with Sandberg, I. W.) Some theorems on properties of DC equations of nonlinear networks. *Bell System Tech. J.* 48 (1969), 1-34. (Y. H. Ku) 39 #2534

New theorems on the equations of nonlinear DC transistor networks. *Bell System Tech. J.* 49 (1970), 1713-1738. (M. Dragomirescu) 42 #2877

A useful generalization of the P_0 matrix concept. *Numer. Math.* 17 (1971), 62-70. (D. B. Hunter) 44 #4888

Wilman, W. W.

On the linear smoothing problem. *IEEE Trans. Automatic Control* AC-14 (1969), 116-117. (Author's summary) 40 #5284

Wilmers, George

Some properties of constructible models for set theory related to elementary equivalence. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 693-698. (W. Marek) 39 #5348

Wilms, E. V.

On coupling effects in transient thermoelastic problems. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 719-722. (B. A. Boley) 30 #777

Wilmut, M. J.

(with Campbell, L. L.) Remarks on a search problem. *CORS J.* 6 (1968), 176-178. (G. Berman) 39 #2447

Wilner, I. A. See Vilner, Iosif Aleksandrovič

Wilner, M.

(with Rohrlich, F.) Functional differential calculus of operators. II. *J. Mathematical Phys.* 7 (1966), 482-493. (Y. Kato) 32 #6973

Wilrich, P.-Th.

Das Zeitverhalten von einfachen offenen exponentiellen Warteschlangensystemen mit unendlich vielen Warteplätzen. (English summary) *Unternehmensforschung* 12 (1968), 185-209. (L. Takács) 39 #3624

Wils, W. I. M.

* Stone-Čech compactification and representations of operator algebras. (Dutch summary) Doctoral dissertation, Catholic University of Nijmegen. *Faculteit der Wiskunde en Natuurwetenschappen aan de Katholieke Universiteit Nijmegen, Nijmegen,* 1968. 52 *pp. (3 loose inserts)* (Joseph B. Deeds) 37 #4637

Désintégration centrale des formes positives sur les C^*-algèbres. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A810-A812. (Author's summary) 39 #3328

Central decomposition of C^*-algebras. *Proc. of the Functional Analysis Week (Aarhus,* 1969*), pp.* 55-63. *Matematisk Inst., Aarhus Univ., Aarhus,* 1969. (S. Sakai) 41 #2408

Désintégration centrale dans une partie convexe compacte d'un espace localement convexe. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A702-A704. (Author's summary) 40 #3265

On semigroups near the identity. *Proc. Amer. Math. Soc.* 21 (1969), 762-763. (R. H. Cox) 39 #825

(with Vesterstrøm, Jørgen) On point realizations of L^∞-endomorphisms. *Math. Scand.* 25 (1969), 178-180 (1970). (E. G. Effros) 41 #8629

Two-sided ideals in W^*-algebras. *J. Reine Angew. Math.* 244 (1970), 55-68. (M. Takesaki) 42 #8306

Direct integrals of Hilbert spaces. I. *Math. Scand.* 26 (1970), 73-88. (H. Halpern) 41 #9010

(with Vesterstrøm, Jørgen) Direct integrals of Hilbert spaces. II. *Math. Scand.* 26 (1970), 89-102. (H. Halpern) 41 #9011

Wilson, A. L.

An approach to simultaneous tolerance intervals in regression. *Ann. Math. Statist.* 38 (1967), 1536-1540. (L. A. Aroian) 36 #1043

Wilson, D. H.

(with Stewartson, K.) Dual solutions of the Greenspan-Carrier equations. II. *J. Fluid Mech.* 18 (1964), 337-349. (K. M. Ghosh) 29 #3104

Wilson, David C.

Completely regular mappings and dimension. *Bull. Amer. Math. Soc.* 76 (1970), 1057-1061. (Y. Kodama) 41 #9249

Monotone mappings of manifolds onto cells. *Proc. First Conf. on Monotone Mappings and Open Mappings (SUNY at Binghamton, Binghamton, N. Y.,* 1970*), pp.* 37-54. *State Univ. of New York at Binghamton, Binghamton, N. Y.,* 1971. (P. T. Church) 43 #5501

Wilson, E. Bright, Jr.

Lower bounds for eigenvalues. *J. Chem. Phys.* 43 (1965), S172-S174. (H. W. Lewis) 33 #2302

Wilson, Eric L.

A class of loops with the isotopy-isomorphy property. *Canad. J. Math.* 18 (1966), 589-592. (R. Artzy) 33 #5779

Absolutely independent axioms for a finite group. *Amer. Math. Monthly* 75 (1968), 390. (D. A. Robinson) 37 #2852

Wilson, F. Wesley, Jr.

On the minimal sets of non-singular vector fields. *Ann. of Math.* (2) 84 (1966), 529-536. (W. H. Gottschalk) 34 #2028

The structure of the level surfaces of a Lyapunov function. *J. Differential Equations* 3 (1967), 323-329. (J. H. McAlpin) 37 #6964

Implicit submanifolds. *J. Math. Mech.* 18 (1968/69), 229-236. (N. H. Kuiper) 37 #4826

Smoothing derivatives of functions and applications. *Trans. Amer. Math. Soc.* 139 (1969), 413-428. (A. Rapcsák) 40 #4974

Elliptic flows are trajectory equivalent. *Amer. J. Math.* 92 (1970), 779-792. (U. D'Ambrosio) 43 #2286

Some examples of vector fields on the 3-sphere. (French summary) *Ann. Inst. Fourier (Grenoble)* 20 (1970), *fasc.* 2, 1-20 (1971). (P. Molino) 44 #3340

Singularities and periodic solutions which do not attract. *J. Differential Equations* 8 (1970), 488-493. (J. W. Heidel) 43 #2300

Wilson, G.

Factorization of the covariance generating function of a pure moving average process. *SIAM J. Numer. Anal.* 6 (1969), 1-7. (D. C. Handscomb) 40 #6775

Wilson, George A.

(with Rogge, Thomas R.) Solutions of a system of nonlinear equations. *Indust. Math.* 19 (1969), 1-14. (W. M. Kincaid) 41 #4796

Wilson, H.

(with Douce, J. L.) The automatic synthesis of control systems with constraints. *Ann. Assoc. Internat. Calcul Analog.* 7 (1965), 18-22. (A. W. Naylor) 32 #3900

Wilson, Howell K

A canonical form for linear transformations of E_n under nonlinear substitutions. *Amer. Math. Monthly* 71 (1964), 988-993. (P. Hartman) 30 #1131

(with Ho, Dar-veig) On the boundary layer near a porous wall. *J. Math. and Phys.* 46 (1967), 203-210. (H. E. Fettis) 36 #2353

(with Ho, D. V.) On the existence of a similarity solution for a compressible boundary layer. *Arch. Rational Mech. Anal.* 27 (1967), 165-174. (W. A. Coppel) 36 #1739

On a singular boundary value problem. *SIAM Rev.* 9 (1967), 734-736. (L. D. Fountain) 36 #6687

A counterexample to a stability conjecture concerning certai differential equations with homogeneous right hadn sides. *J. Differential Equations* 8 (1970), 564-569. (Shui-Nee) 42 #802

* Ordinary differential equations. Introductory and intermedia courses using matrix methods. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.,* 1971. xiii + 377 *pp.* (J. O. C. Ezeilo) 43 #6483

Positive limit sets of unbounded trajectories. *Amer. Math. Monthly* 78 (1971), 155-164. (R. M. Cooper) 43 #5100

Wilson, J. P.

The total absolute curvature of an immersed manifold. *J. London Math. Soc.* 40 (1965), 362-366. (N. H. Kuiper) 31 #698

Representations of integers prime to a given integer. *Amer. Math. Monthly* 73 (1966), 375-376. (H. J. Godwin) 33 #2598

Some minimal imbeddings of homogenous spaces. *J. London Mat Soc.* (2) 1 (1969), 335-340. (C.-C. Hsiung) 41 #7590

Wilson, Jack C.

(with Rinehart, R. F.) Higher and iterated Hausdorff derivatives. *Rend. Circ. Mat. Palermo* (2) 11 (1962), 258-261. (S. Marcus) 29 #4845

Wilson, John S.

Some properties of groups inherited by normal subgroups of finite index. *Math. Z.* 114 (1970), 19-21. (R. Göbel) 41 #3577; erratum, 43, p. 1696

Groups satisfying the maximal condition for normal subgroups *Math. Z.* 118 (1970), 107-114. (D. J. S. Robinson) 42 #7763

(with Roseblade, J. E.) A remark about monolithic groups. *J. London Math. Soc.* (2) 3 (1971), 361-362. (J. Wiegold) 43 #7502

Groups with every proper quotient finite. *Proc. Cambridge Philos. Soc.* 69 (1971), 373-391. (B. Hartley) 43 #338

Wilson, Kenneth G.

(with Hockney, D.) In defence of a relevance condition. *Logique et Analyse (N.S.)* 8 (1965), 211-220. (A. R. Anderson) 33 #5472

Model Hamiltonians for local quantum field theory. *Phys. Rev.* (2) 140 (1965), B445-B457. (P. W. Higgs) 32 #6982

Non-Lagrangian models of current algebra. *Phys. Rev.* (2) 179 (1969), 1499-1512. (E. C. G. Sudarshan) 41 #4938

Wilson, M. Wayne

(with Fraser, W.) Remarks on the Clenshaw-Curtis quadrature scheme. *SIAM Rev.* 8 (1966), 322-327. (F. Stenger) 34 #3784

(with Davis, P. J.) Nonnegative interpolation formulas for uniformly elliptic equations. *J. Approximation Theory* 1 (1968), 374-380. (H. Werner) 39 #4559

Uniform approximation of nonnegative continuous linear functionals. *J. Approximation Theory* 2 (1969), 241-248. (R. Kopp) 39 #4580

(with Rivlin, T. J.) An optimal property of Chebyshev expansions. *J. Approximation Theory* 2 (1969), 312-317. (G. Meinardus) 40 #6139

A general algorithm for nonnegative quadrature formulas. *Math. Comp.* 23 (1969), 253-258. (Author's summary) 39 #3705

A new discrete analog of the Legendre polynomials. *Bull. Amer. Math. Soc.* 76 (1970), 345-348. (M. E. Muldoon) 40 #4506

Optimal starting approximations for generating square root for slow or no divide. *Comm. ACM* 13 (1970), 559-560. (J. E. Dennis, Jr.) 44 #2338

Convergence properties of discrete analogs of orthogonal polynomials. (German summary) *Computing (Arch. Elektron. Rechne* 5 (1970), 1-5. (Author's summary) 41 #2973

Discrete least squares and quadrature formulas. *Math. Comp* 24 (1970), 271-282. (Walter Gautschi) 43 #1430

Nonnegative expansions of polynomials. *Proc. Amer. Math. S* 24 (1970), 100-102. (T. S. Chihara) 44 #4451

On the Hahn polynomials. *SIAM J. Math. Anal.* 1 (1970), 131-139. (Y. L. Luke) 41 #2090

Necessary and sufficient conditions for equidistant quadrature formula. *SIAM J. Numer. Anal.* 7 (1970), 134-141. (C. S. Duris) 43 #8241

ilson, P. E.

(with Boresi, A. P.) Large deflection of a clamped circular plate including effects of transverse shear. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 540-541. (Authors' introduction) 29 #4289

ilson, P. R.

Three-dimensional solutions of the transfer equation. *Monthly Notices Roy. Astronom. Soc.* 126 (1963), 393-399. (Author's summary) 29 #2088

ilson, R.

On a Hadamard composition with a class of isolated singularities. *J. London Math. Soc.* 39 (1964), 713-719. (A. J. Macintyre) 30 #244

An extension of the almost isolated singularity of finite exponential order. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 137-141. (K. Noshiro) 37 #385

Hurwitz-Pincherle composition of integral functions and power series. *J. London Math. Soc.* 40 (1965), 58-62. (A. J. Macintyre) 31 #3609

Coefficient density and the distribution of virtually isolated singularities on the circle of convergence. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 359-370. *Ohio Univ. Press, Athens, Ohio,* 1970. (G. Piranian) 44 #411

On Hadamard composition and the virtually isolated singularity. *Mathematical Essays Dedicated to A. J. Macintyre, pp.* 371-377. *Ohio Univ. Press, Athens, Ohio,* 1970. (G. Piranian) 44 #412

ilson, R. G.

The stresses in an infinite strip containing a circular inclusion. *Mathematika* 11 (1964), 155-170. (J. L. Sanders, Jr.) 30 #1657

(with De Marco, G.) Realcompactness and partitions of unity. *Proc. Amer. Math. Soc.* 30 (1971), 189-194. (K. D. Magill, Jr.) 43 #6874

ilson, R. McC.

Summability of a class of Cauchy exponential series. *Proc. London Math. Soc.* (3) 15 (1965), 105-124. (A. Alexiewicz) 30 #5123

ilson, Richard M.

(with Ray-Chaudhuri, D. K.) On the existence of resolvable balanced incomplete block designs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 331-341. *Gordon and Breach, New York,* 1970. (E. G. Straus) 42 #1678

The construction of group divisible designs and partial planes having the maximum number of lines of a given size. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 488-497. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (Author's summary) 42 #1684

lson, Robert

Computation of optimal controls. *J. Math. Anal. Appl.* 14 (1966), 77-82. (From the author's introduction) 32 #7298

On programming under uncertainty. *Operations Res.* 14 (1966), 652-657. (From the author's summary) 33 #3776

lson, Robert Lee

Nonclassical simple Lie algebras. *Bull. Amer. Math. Soc.* 75 (1969), 987-991. (K. A.Ževlakov) 42 #3135

Irreducible Lie algebras of infinite type. *Proc. Amer. Math. Soc.* 29 (1971), 243-249. (E. M. Luks) 43 #3315

lson, Robin J.

The large sieve in algebraic number fields. *Mathematika* 16 (1969), 189-204. (H. Halberstam) 41 #8374

The Möbius function in combinatorial mathematics. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford, 1969), pp.* 315-333. *Academic Press, London,* 1971. (From the author's introduction) 43 #3136

lson, S. J.

(with Sen, K. K.) Modified spherical harmonic method and spherical geometry. I. Diffusion problem. (French and Russian summaries) *Ann. Astrophys.* 27 (1964), 654-659. (E. H. Avrett) 32 #3833

(with Sen, K. K.) Modified spherical harmonic method and spherical geometry. II. Transfer problem in spherically symmetric finite stellar atmosphere. (French and Russian summaries) *Ann. Astrophys.* 28 (1965), 348-352. (E. H. Avrett) 32 #3834

(with Sen, K. K.) Modified spherical harmonic method and spherical geometry. III. Transfer problem in spherically symmetric finite shell of planetary nebulae. (French and Russian summaries) *Ann. Astrophys.* 28 (1965), 855-859. (Authors' summary) 33 #5358

(with Sen, K. K.) Modified spherical harmonic method and neutron transport problem with finite spherical core. *Canad. J. Phys.* 43 (1965), 432-437. (E. J. Verboven) 31 #5646

Wilson, Th. A.

Minimum principle for a nonequilibrium stochastic system. *Physica* 30 (1964), 493-496. (Author's summary) 29 #1012

Wilson, Walter L., Jr.

* (with Tempkins, Charles B.) Elementary numerical analysis. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1969. xvi + 396 *pp.* (D. Greenspan) 40 #3670

Wilson, William

(Halpern, Francis R.) Poles in Feynman diagrams with several loops. *J. Mathematical Phys.* 6 (1965), 463-469. (J. N. Islam) 32 #2059

Wilton, R. C.

(with Haff, C. E.; Murty, U. S. R.) A note on undirected graphs realizable as p. o. sets. *Canad. Math. Bull.* 13 (1970), 371-374. (M. D. Plummer) 42 #4444

Wimmer, Harald K.

Über eine spezielle Differenzengleichung. *Elem. Math.* 25 (1970), 85-87. (J. H. Curtiss) 41 #8855

Über Typen des orbitalen Stabilitätsverhaltens. *Monatsh. Math.* 74 (1970), 172-178. (D. Bobrowski) 42 #7995

Wimp, Jet

(with Luke, Yudell L.) Expansion formulas for generalized hypergeometric functions. *Rend. Circ. Mat. Palermo* (2) 11 (1962), 351-366. (L. J. Slater) 29 #3681

A class of integral transforms. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 33-40. (B. R. Bhonsle) 29 #1503

On the zeros of a confluent hypergeometric function. *Proc. Amer. Math. Soc.* 16 (1965), 281-283. (L. J. Slater) 30 #4001

Two integral transform pairs involving hypergeometric functions. *Proc. Glasgow Math. Assoc.* 7, 42-44 (1965). (A. Erdélyi) 31 #1402

The asymptotic representation of a class of *G*-functions for large parameter. *Math. Comp.* 21 (1967), 639-646. (R. A. Askey) 36 #6665

(with Fields, Jerry) On the factorization of a class of difference operators. *Bull. Amer. Math. Soc.* 74 (1968), 1068-1071. (W. A. Al-Salam) 38 #2346

On a certain class of Laguerre series. (Italian summary) *Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* 127 (1968/69), 141-148. (E. L. Koh) 42 #7956

(with Fields, Jerry L. ; Luke, Yudell, L.) Recursion formulae for generalized hypergeometric functions. *J. Approximation Theory* 1 (1968), 137-166. (V. M. Bhise) 39 #489

Recursion formulae for hypergeometric functions. *Math. Comp.* 22 (1968), 363-373. (S. D. Bajpai) 37 #1655

* Derivative-free iteration processes of higher order. ARL 69-0183. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio* 1969. iv + 10 *pp.* (J. F. Traub) 40 #6768

(with Colton, David) Jacobi series which converge to zero, with applications to a class of singular partial differential equations. *Proc. Cambridge Philos. Soc.* 65 (1969), 101-106. (M. E. Muldoon) 38 #2347

Derivative-free iteration processes. *SIAM J. Numer. Anal.* 7 (1970), 329-334. (A. Wouk (CR 12, 21, 406)) 43 #1415

Winckler, Klaus

Some distribution-free small samples methods for interval estimation and hypothesis testing in linear shock models. *Metrika* 16 (1970), 115-129. 43 #4201

Windeknecht, Thomas G.

(with Mesarović, M. D.) On general dynamical systems and finite stability. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R., 1965), pp.* 381-392. *Academic Press, New York,* 1967. (W. R. Utz) 36 #2918

Concerning an algebraic theory of systems. *Systems and Computer Science (Proc. Conf., London, Ont., 1965), pp.* 232-249. *Univ. Toronto Press, Toronto, Ont.,* 1967. (R. N. Goss) 38 #3095

Mathematical systems theory: Causality. *Math. Systems Theory* 1 (1967), 279-288. (M. A. Harrison) 39 #2541

* General dynamical processes. A mathematical introduction. Mathematics in Science and Engineering, Vol. 78. *Academic Press, New York-London,* 1971. xi + 179 *pp.* (W. R. Utz) 43 #3010

Windelberg, Dirk

Zur additiven Idealtheorie in nicht-assoziativen (τ)-Algebren. *J. Reine Angew. Math.* 239/240 (1969), 180-184. (C. Tsai) 41 #8479

Winder, Robert O.

Partitions of *N*-space by hyperplanes. *SIAM J. Appl. Math.* 14 (1966), 811-818. (T. M. Cover) 34 #8281

Fundamentals of threshold logic. *Applied Automata Theory, pp.* 235-318. *Academic Press, New York,* 1968. (A. A. Mullin) 40 #5349

Chow parameters in threshold logic. *J. Assoc. Comput. Mach.* 18 (1971), 265-289. (B. Hazeltine) 44 #1517

Windle, D. W.

(with Chadwick, P.) Propagation of Rayleigh waves along isothermal and insulated boundaries. *Proc. Roy. Soc. Ser. A* 280 (1964), 47-71. (M. Hayes) 29 #3057

Wine, R. Lowell

* Statistics for scientists and engineers. *Prentice-Hall, Inc., Englewood Cliffs, N. J.*, 1964. xvi + 671 *pp.* (Editors) 29 #1682

Wineman, A. S.

(with Pipkin, A. C.) Material symmetry restrictions on constitutive equations. *Arch. Rational Mech. Anal.* 17 (1964), 184-214. (A. J. M. Spencer) 30 #1652

Winer, Irvin M.

Solution to a class of complete heat flow equations. *Quart. Appl. Math.* 23 (1965), 82. (B. A. Boley) 31 #1025

Wing, G. Milton

Invariant imbedding and the asymptotic behavior of solutions to initial value problems. *J. Math. Anal. Appl.* 9 (1964), 85-98. (S. Ueno) 29 #1386

(with Kolodner, I. I.; Lehner, J.) On first order ordinary differential equations arising in diffusion problems. *J. Soc. Indust. Appl. Math.* 12 (1964), 249-269. (T. F. Bridgland, Jr.) 29 #4946

(with Bellman, R.; Cooke, K. L.; Kalaba, R.) Existence and uniqueness theorems in invariant imbedding. I. Conservation principles. *J. Math. Anal. Appl.* 10 (1965), 234-244. (E. J. Verboven) 31 #1478

On a method for obtaining bounds on the eigenvalues of certain integral equations. *J. Math. Anal. Appl.* 11 (1965), 160-175. (E. H. Bareiss) 31 #5046

(with Bailey, Paul B.) Some recent developments in invariant imbedding with applications. *J. Mathematical Phys.* 6 (1965), 453-462. (Authors' summary) 30 #2882

(with Roark, A. L.) A method for computing the eigenvalues of certain integral equations. *Numer. Math.* 7 (1965), 159-170. (D. Elliott) 30 #5479

Invariant imbedding and transport problems with internal sources. *J. Math. Anal. Appl.* 13 (1966), 361-369. (J. Devooght) 33 #5336

(with Allen, Richard C. Jr.) A method for computing eigenvalues of certain Schrödinger-like equations. *J. Math. Anal. Appl.* 15 (1966), 340-354. (F. L. Bauer) 35 #6374

Some convexity theorems for eigenvalues of Fredholm integral equations. *J. Math. Anal. Appl.* 19 (1967), 330-338. (W. W. Hooker) 35 #3388

Certain Fredholm integral equations reducible to initial value problems. *SIAM Rev.* 9 (1967), 655-670. (H. E. Fettis) 37 #3302

On a generalization of a method of Bellman and Latter for obtaining eigenvalue bounds for integral operators. *J. Math. Anal. Appl.* 23 (1968), 384-396. (P. M. Anselone) 38 #501

Mathematical methods suggested by transport theory. *Transport Theory (Proc. Sympos. Appl. Math., New York, 1967), SIAM-AMS Proc., Vol. I, pp.* 159-177. *Amer. Math. Soc., Providence, R. I.*, 1969. (A. Leonard) 41 #3056

(with Scott, M. R.; Shampine, L. F.) Invariant imbedding and the calculation of eigenvalues for Sturm-Liouville systems. (German summary) *Computing (Arch. Elektron. Rechnen)* 4 (1969), 10-23. (F. Perrin) 39 #7829

(with Shampine, L. F.) Existence and uniqueness of solutions of a class of nonlinear elliptic boundary value problems. *J. Math. Mech.* 19 (1969/70), 971-979. (Z. C. Motteler) 41 #3996

(Allen, R. C., Jr.) A numerical algorithm suggested by problems of transport in periodic media. *J. Math. Anal. Appl.* 29 (1970), 141-157. (G. H. Meyer) 40 #5140

Wing, Omar

(with Fisher, G. J.) A correspondence between a class of planar graphs and bipartite graphs. *IEEE Trans. Circuit Theory* CT-12 (1965), 266-267. (Authors' summary) 40 #2566

On drawing a planar graph. *IEEE Trans. Circuit Theory* CT-13 (1966), 112-113. (W. T. Tutte) 42 #4439

(with Fisher, G. J.) Computer recognition and extraction of planar graphs from the incidence matrix. *IEEE Trans. Circuit Theory* CT-13 (1966), 154-163. (Authors' summary) 39 #5395

(with Chen, Y. C.) Some properties of cycle-free directed graphs and the identification of the longest path. *J. Franklin Inst.* 281 (1966), 293-301. (B. R. Heap) 34 #4156

(with Chang, F.Y.) Uniform multi-layer RC distributed networks. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 290-299. *Univ. of Illinois, Urbana, Ill.*, 1967. (Authors' summary) 41 #8148

(with Chang, F. Y.) Multilayer RC distributed networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 32-40. (Authors' summary) 42 #4328

Winiarski, T.

Approximation and interpolation of entire functions. *Ann. Polon. Math.* 23 (1970/71), 259-273. *(errata insert)* (K. R. Unni) 42 #7913

Winicour, Jeffrey

(with Tamburino, L.) Lorentz-covariant gravitational energy-momentum linkages. *Phys. Rev. Lett.* 15 (1965), 601-605. (A. B. Komar) 33 #2390

(with Rohrlich, F.) The equations of motion of a system of charged particles in a gravitational field. *Perspectives in Geon try (Essays in Honor of V. Hiavatý), pp.* 318-324. *Indiana Univ. Press, Bloomington, Ind.*, 1966. (N. Rosen) 34 #2323

(with Derry, Louis; Isaacson, Richard) Shear-free gravitational radiation. *Phys. Rev.* (2) 185 (1969), 1647-1655. (P. C. Vaidya) 40 #8420

Winkelbauer, Karel

On discrete information sources. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp.* 765-830. *Publ. House Czech. Acad. Sci., Prague*, 1964. (J. Wolfowitz) 29 #3280

Chess and the theory of games. (Czech) *Problems in Cybernetics (Czech), pp.* 41-67. *Nakl. Československ. Akad. Věd, Prague*, 1965. (M. Mişicu) 32 #9070

Axiomatic definition of channel capacity and entropy rate. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague, 1965), pp.* 661-705. *Academia, Prague*, 1967. (T. Kailath) 36 #2434

* Strategické hry. (Czech) [Strategic games] Issued as twelve supplements to Volumes 3 (1967) and 4 (1968) of the journal Kybernetika (Prague). *Academia, Prague*, 1968. 215 *pp.* (M. Maňas) 41 #3121

On the asymptotic rate of non-ergodic information sources. (Czech summary) *Kybernetika (Prague)* 6 (1970), 127-148. (S. Ikehara) 43 #1732

Winkelnkemper, H. E.

A theorem on manifolds of dimension 4. (Spanish) *Acta Mexicana Ci. Tecn.* 2 (1968), 88-89. (R. L. Bishop) 38 #6623

Winkler, Gerhard

Eine Charakterisierung der Gruppen PSL(2, 5), SL(2, 5) und PSL(2, 8). *Arch. Math. (Basel)* 18 (1967), 230-234. (K. W. Gruenberg) 36 #5213

Winkler, Jörg

* Über eine Klasse Borel-monogener Funktionen und deren Anwendung auf die Werteverteilungstheorie. Inaugural-Dissertatio zur Erlangung der Doktorwürde der Mathematisch-Naturwissenschaftlichen Fakultät der Freien Universität Berlin. *Dissertation, Berlin*, 1964. iv + 34 *pp.* (F. Huckemann) 37 #2963

Bemerkungen zur Werteverteilung spezieller meromorpher Funktionen an singulären Stellen. *Math. Z.* 93 (1966), 48-59. (K. Noshiro) 36 #1655

Zur Verteilung der *a*-Stellen spezieller ganzer Funktionen. *Math. Z.* 101 (1967), 143-151. (W. K. Hayman) 36 #1654

Über Picardmengen ganzer Funktionen. (English summary) *Manuscripta Math.* 1 (1969), 191-199. (A. J. Lohwater) 40 #358

Zur Existenz kleiner Ausfüllungskreise bei ganzen Funktionen *Math. Z.* 108 (1969), 223-230. (T. Kövari) 39 #7109

Über Picard-Mengen ganzer und meromorpher Funktionen. *Math. Z.* 109 (1969), 191-204. (L. R. Sons) 40 #359

Bemerkung über die Verzweigungspunkte meromorpher Funktionen endlicher Ordnung. *Math. Z.* 110 (1969), 395-398. (Horst Tietz) 40 #7455

Zum Verzweigungsindex der *a*-Stellen ganzer und meromorpher Funktionen. *Math. Z.* 113 (1970), 353-362. (I. N. Baker) 41 #5626

Eine Bemerkung über cluster sets. *Arch. Math. (Basel)* 22 (1971), 181-185. (J. E. McMillan) 44 #6967

Über den Verzweigungsindex bei ganzen Funktionen. (English summary) *Manuscripta Math.* 4 (1971), 135-148. (I. N. Baker) 44 #5466

Winkler, Robert L.

The assessment of prior distributions in Bayesian analysis *J. Amer. Statist. Assoc.* 62 (1967), 776-800. (I. J. Good) 36 #3428

The quantification of judgement: Some methodological suggestions. *J. Amer. Statist. Assoc.* 62 (1967), 1105-1120. (W. A. Ericson) 36 #6060

(with Britney, Robert R.) Bayesian point estimation under various loss functions. *Amer. Statist. Assoc.* 1968 *Proc. Business and Econom. Statist. Sect. (Pittsburgh, Pa.), pp.* 356-364. *Amer. Statist. Assoc., Washington, D. C.*, 1968. (D. V. Lindley) 40 #2183

* (with Hays, William L.) Statistics: Probability, inference and decision. Vols. I, II. *Holt, Rinehart and Winston, Inc., New York-Montreal, Que.-London*, 1970. *Vol. I:* xviii + 650 *pp.* *Vol. II:* xiv + 320 *pp.* (R. J. Buehler) 42 #1251

Winkler, Stanley

* (with Magnus, Wilhelm) Hill's equation. Interscience Tract in Pure and Applied Mathematics, No. 20. *Interscience Publishers [John Wiley & Sons], New York-London-Sydney*, 1966. viii + 127 *pp.* (H. Hochstadt) 33 #5991

Winkler, Wolfgang

Stetigkeitseigenschaften der Realisierungen Gauss'scher zufälliger Felder. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice, 1962), pp* 831-839. *Publ. House Czech. Acad. Sci., Prague*, 1964. (E. A. Robinson) 29 #4104 (with Fiebig, Renate) Zur Anwendung verkürzter einfacher Stichprobenpläne. *Wiss. Z. Techn. Univ. Dresden* 14 (1965), 271-276. (Authors' summary) 32 #6622

(with Fröhlich, Otbert) Bemerkungen zur Differenzierbarkeit zufälliger Filder. *Wiss. Z. Techn. Univ. Dresden* 15 (1966), 681-684. (E. A. Robinson) 35 #4965

Grenzwertsätze für Dichten von Folgen von Zufallsgrössen mit **zufälligen** Indizes. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 225-235. (J. R. Blum) 38 #761

(with Müller, P. Heinz) Abschätzung der Konvergenzgeschwindigkeit bei Folgen von Zufallsgrössen mit zufälligen Indizes. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 215-222. (H. Kesten) 39 #4910

inkowski, Józef

A method of realisation of Markov chains. *Algorytmy* 5, *no.* 9, 31-37 (1968). (J. H. Halton) 41 #1190

innecke, F. A. T.

* Gauss. Ein Umriss seines Lebens und Wirkens. Festschrift zu Gauss' Hundertjährigem Geburtstage am 30. April 1877; herausgegeben durch den Verein für Naturwissenschaft zu Braunschweig. Faksimile-Druck. *Friedr. Vieweg & Sohn, Braunschweig,* 1963. 34 pp. (C. J. Scriba) 31 #3298

innie, John A.

Theoretical terms and partial definitions. *Philos. Sci.* 32 (1965), 324-328. 35 #17

The completeness of Copi's system of natural deduction. *Notre Dame J. Formal Logic* 11 (1970), 379-382. (From the author's introduction) 44 #3833

innink, Marinus

(with Haag, R.; Hugenholtz, N. M.) On the equilibrium states in quantum statistical mechanics. *Comm. Math. Phys.* 5 (1967), 215-236. (D. A. Uhlenbrock) 36 #2366

(with Sirugue, M.) Constraints imposed upon a state of a system that satisfies the K.M.S. boundary condition. *Comm. Math. Phys.* 19 (1970), 161-168. (D. A. Uhlenbrock) 42 #8822

(with Sirugue, Michel) Une généralisation du théorème d'unicité de l'automorphisme modulaire d'une algèbre de von Neumann de genre dénombrable. *C. R. Acad. Sci. Paris Sér. A - B* 272 (1971), A1185-A1187. (H. Araki) 44 #1350

inograd, Shmuel

* (with Cowan, J. D.) Reliable computation in the presence of noise. *The M.I.T. Press, Cambridge, Mass.,* 1963. xiv + 96 pp. (W. W. Peterson) 29 #4613

Input-error-limiting automata. *J. Assoc. Comput. Mach.* 11 (1964), 338-351. (J. Hartmanis) 29 #2135

(with Karp, Richard M.; Miller, Raymond E.) The organization of computations for uniform recurrence equations. *J. Assoc. Comput. Mach.* 14 (1967), 563-590. (Authors' summary) 38 #2920

On the number of multiplications required to compute certain functions. *Proc. Nat. Acad. Sci. U.S.A.* 58 (1967), 1840-1842. (J. P. Roth) 37 #3735

The number of multiplications involved in computing certain functions. (With discussion) *Information Processing 68 (Proc. IFIP Congress, Edinburgh, 1968), Vol. 1: Mathematics, Software,* pp. 276-279. *North-Holland, Amsterdam,* 1969. (F. J. Murray) 42 #7029

On the number of multiplications necessary to compute certain functions. *Comm. Pure Appl. Math.* 23 (1970), 165-179. (E. R. Hansen) 41 #4778

On the algebraic complexity of inner product. *Linear Algebra and Appl.* 4 (1971), 377-379. (C. Tartia) 44 #7802

inogradow, I. M. See Vinogradov, I. M.

inokur, Herbert S., Jr.

(with Margolin, Barry H.) Exact moments of the order statistics of the geometric distribution and their relation to inverse sampling and reliability of redundant systems. *J. Amer. Statist. Assoc.* 62 (1967), 915-925. (Z. Govindarajulu) 36 #4753

inquist, Lasse

An elementary proof of $p(11m + 6) \equiv 0 (\mathrm{mod}\ 11)$. *J. Combinatorial Theory* 6 (1969), 56-59. (R. L. Graham) 38 #4434

nrich, Lonny B.

Note on a comparison of evaluation schemes for the interpolating polynomials. *Comput. J.* 12 (1969/70), 154-155. (Author's summary) 39 #3678

nslow, Alan M.

Numerical solution of the quasilinear Poisson equation in a nonuniform triangle mesh. *J. Computational Phys.* 1 (1967), 149-172. (From the author's summary) 39 #2353

nsor, Chester A.

(with DeRusso, Paul M.) Stability with probability one of a class of random linear systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968),* pp. 634-643. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2381

Winston, Elliot

(with Yorke, James A.) Linear delay differential equations whose solutions become identically zero. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 885-887. (V. Staikos) 40 #7603

Uniqueness of the zero solution for delay differential equations with state dependence. *J. Differential Equations* 7 (1970), 395-405. (R. D. Driver) 42 #3386

Comparison theorems for scalar delay differential equations. *J. Math. Anal. Appl.* 29 (1970), 455-463. (V. Staikos) 40 #6015

The global existence of solutions of delay differential equations. *J. Differential Equations* 10 (1971), 392-402. (S. P. Hastings) 44 #7092

Winter, B. B.

(with Hietala, H. J.) Note on a combinatorial identity. *Math. Mag.* 38 (1965), 149-151. (Benjamin Epstein) 31 #2162

van Winter, Clasine

Theory of finite systems of particles. I. The Green function. *Mat.-Fys. Skr. Danske Vid. Selsk.* 2, *no.* 8, 60 pp. (1964). (R. T. Prosser) 34 #1052

Dispersion relations and resonance reactions. *Nuclear Phys.* 57 (1964), 134-151. (K. J. Le Couteur) 31 #3056

Theory of finite systems of particles. II. Scattering theory. *Mat.-Fys. Skr. Danske Vid. Selsk.* 2, *no.* 10, 94 pp. (1965). (H. Rund (Zbl 133, 452)) 38 #909

Orbital angular momentum and group representations. *Ann. Physics* 47 (1968), 232-274. (H. Araki) 37 #2505

(with Brascamp, H. J.) The *N*-body problem with spin-orbit or Coulomb interactions. *Comm. Math. Phys.* 11 (1968/69), 19-55. (A. Corciovei) 41 #4962

Winter, David J.

On automorphisms of algebraic groups. *Bull. Amer. Math. Soc.* 72 (1966), 706-708. (R. Steinberg) 33 #2635

Algebraic group automorphisms having finite fixed point sets. *Proc. Amer. Math. Soc.* 18 (1967), 371-377. (R. Steinberg) 35 #1601

Fixed points and stable subgroups of algebraic group automorphisms. *Proc. Amer. Math. Soc.* 18 (1967), 1107-1113. (T. A. Springer) 36 #3791

(with Sagle, A.) On homogeneous spaces and reductive subalgebras of simple Lie algebras. *Trans. Amer. Math. Soc.* 128 (1967), 142-147. (Y. Matsushima) 37 #2910

Representations of locally finite groups. *Bull. Amer. Math. Soc.* 74 (1968), 145-148. (C. W. Curtis) 38 #3363

Solvable and nilpotent subalgebras of Lie algebras. *Bull. Amer. Math. Soc.* 74 (1968), 754-758. (J. E. Humphreys) 39 #6939

On groups of automorphisms of Lie algebras. *J. Algebra* 8 (1968), 131-142. (M. L. Tomber) 36 #6467

On the toral structure of Lie *p*-algebras. *Acta Math.* 123 (1969), 69-81. (R. W. Richardson, Jr.) 40 #4326

Cartan subalgebras of a Lie algebra and its ideals. *Pacific J. Math.* 33 (1970), 537-541. (D. M. Foster) 41 #6923

Winter, David L.

Finite groups having a faithful representation of degree less than $(2p + 1)/3$. *Amer. J. Math.* 86 (1964), 608-618. (W. Feit) 32 #1265

Finite *p*-solvable linear groups with a cyclic Sylow *p*-subgroup. *Proc. Amer. Math. Soc.* 18 (1967), 341-343. (D. L. Barnett) 34 #7659

On finite linear groups. *Math. Z.* 106 (1968), 245-247. (D. Wales) 38 #254

On the restrict-induce map of group characters. *Proc. Amer. Math. Soc.* 19 (1968), 246-248. (E. E. Shult) 37 #326

Solvability of certain *p*-solvable linear groups of finite order. *Pacific J. Math.* 34 (1970), 827-835. (A. Mann) 44 #5385

Finite linear groups containing an irreducible solvable normal subgroup. *Proc. Amer. Math. Soc.* 25 (1970), 716. (K. Iyanaga) 41 #3582

On finite solvable linear groups. *Illinois J. Math.* 15 (1971), 425-428. (J. D. Dixon) 43 #4919

p-solvable linear groups of finite order. *Trans. Amer. Math. Soc.* 157 (1971), 155-160. (D. B. Hunter) 43 #2092

Winter, Eduard J.

* Bernard Bolzano: Ein Denker und Erzieher im Österreichischen Vormärz. Österreichische Akademie der Wissenschaften, Philosophisch-Historische Klasse, Sitzungsberichte, 252. Band, 5. Abhandlung. Veröffentlichungen der Kommission für Geschichte der Erziehung und des Unterrichts, Heft 8. *Hermann Böhlaus Nachf., Vienna-Cologne,* 1967. 134 pp. (1 *plate*) (Editors) 36 #4951

* Bernard Bolzano. Ein Lebensbild. Bernard Bolzano-Gesamtausgabe. Herausgegeben von Eduard Winter, Jan Berg, Friedrich Kambartel, Bob van Rootselaar. Einleitungsband. Erster Teil: Biographie. *Friedrich Frommann Verlag (Günther Holzboog), Stuttgart,* 1969. 198 pp. (M. Kline) 42 #5769

Winter, J. M.

Théorie de la largeur de raie. *Optique et Électronique Quantiques (Lectures delivered at Les Houches, 1964, Summer School Theoret. Phys. Univ. Grenoble),* pp. 555-607. *Gordon and Breach, New York,* 1965. (W. Franzen) 32 #8688

Winter, M. J.

Harmonic difference equations. *Duke Math. J.* 36 (1969), 677-681. (R. A. Hunt) 40 #585

(with Taylor, G. D.) Calculation of best restricted approximations. *SIAM J. Numer. Anal.* 7 (1970), 248-255. (W. J. Kotzé) 42 #3978

Winter, N. J.

(with Dürr, H. P.) Gauge-invariant spinor theories. (Italian and Russian summaries) *Nuovo Cimento A* (10) 70 (1970), 467-501. (R. L. Ingraham) 43 #1564

Winterberg, Friedwart

Covariant treatment of linearized magneto-fluid dynamics. *Z. Naturforsch.* 18a (1963), 545-552. (Hanan Rubin) 32 #8670

Dispersion relations and Landau damping for transverse and longitudinal Alfvén waves propagating through a gas of infinite conductivity. *Ann. Physics* 29 (1964), 259-281. (K. Imre) 32 #5299

(with Gajewski, Ryszard) Alfvén waves in inhomogeneous magnetic fields. *Ann. Physics* 32 (1965), 348-361. (Roy R. Johnson) 32 #8649

Winterle, Riko

A problem of R. L. Graham in combinatorial number theory. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La.,* 1970*), pp.* 357-361. *Louisiana State Univ., Baton Rouge, La.,* 1970. (R. L. Graham) 42 #3051

Winternitz, P.

The optical theorem for scattering of particles with arbitrary spins. *Ž. Èksper. Teoret. Fiz.* 46 (1964), 2108-2111 *(Russian. English summary); translated as Soviet Physics JETP* 19 (1964), 1422-1424. (C. G. Bollini) 31 #6551

(with Smorodinskiĭ, Ja. A.; Uhlíř, M.) On relativistic angular momentum theory. *Jadernaja Fiz.* 1 (1965), 163-172 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 113-119. (Authors' summary) 34 #5474

(with Friš, I.) Invariant expansions of relativistic amplitudes and subgroups of the proper Lorentz group. *Jadernaja Fiz.* 1 (1965), 889-901 *(Russian); translated as Soviet J. Nuclear Phys.* 1 (1965), 636-643. (H. M. Goldberg) 34 #2778

(with Friš, J.; Mandrosov, V.; Smorodinskiĭ, Ja. A.; Uhlíř, M.) On higher symmetries in quantum mechanics. *Phys. Lett.* 16 (1965), 354-356. (J. M. Jauch) 32 #5212

(with Smorodinskiĭ, Ja. A.; Uhlíř, M.; Friš, I.) Symmetry groups in classical and quantum mechanics. *Jadernaja Fiz.* 4 (1966), 625-635 *(Russian); translated as Soviet J. Nuclear Phys.* 4 (1967), 444-450. (R. Delbourgo) 35 #2576

(with Pajas, P.) The two-dimensional relativistic expansions of the scattering amplitude. *Topics in Elementary Particle Theory (Proc. Internat. Sem. Elem. Particle Theory, Varna,* 1968*), pp.* 486-492. *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (F. Calogero) 41 #3015

Two-dimensional expansions of relativistic amplitudes in the Mandelstam triangle and crossing symmetric reactions. *Czechoslovak J. Phys. Sect. B* 19 (1969), 1589-1601. (R. L. Ingraham) 43 #7143

(with Pajas, P.) Representations of the Lorentz group: New integral relations between Legendre functions. *J. Mathematical Phys.* 11 (1970), 1505-1510. (A. Dalgarno) 41 #9510

(with Anderson, R. L.; Raczka, R.; Rashid, M. A.) Clebsch-Gordan coefficients for the coupling of SL(2, *C*) principal-series representations. *J. Mathematical Phys.* 11 (1970), 1050-1058. (S. N. Biswas) 42 #1415

(with Anderson, R. L.; Raczka, R.; Rashid, M. A.) Recursion and symmetry relations for the Clebsch-Gordan coefficients of the homogeneous Lorentz group. *J. Mathematical Phys.* 11 (1970), 1059-1068. (S. N. Biswas) 42 #1416

(with Macfadyen, N. W.) Crossing symmetric expansions of physical scattering amplitudes; the O(2, 1) group and Lamé functions. *J. Mathematical Phys.* 12 (1971), 281-293. (Authors' summary) 42 #8797

(with Belinfante, J. G. F.) One-parameter subgroups of unitary groups with indefinite metric and in particular of the conformal group. *J. Mathematical Phys.* 12 (1971), 1041-1054. (R. Delbourgo) 44 #1329

Wintgen, Georg

Anwendung der formalen Logik auf ein Maschinendurchlaufproblem. *Mathematische und physikalisch-technische Probleme der Kybernetik, pp.* 218-224. *Akademie-Verlag, Berlin,* 1963. (H. Kiesow) 30 #2928

(with Schulze, Dieter) Kybernetische Probleme in der Ökonomie. (Russian, English and French summaries) *Wiss. Z. Humboldt-Univ. Berlin Math.-Natur. Reihe* 12 (1963), 817-821. (Authors' summary) 35 #5217

(with Schulze, D.) Kybernetische Probleme in der Ökonomie. *Math. und Wirtschaft* 2 (1964), 38-47. (Editors) 35 #5216

(with Szwarc, Włodzimierz) The number of transportation bases. *Mathematica (Cluj)* 7(30) (1965), 155-161. (E. L. Johnson) 33 #5367

Winther, Aage

(with Lütken, Hans) Coulomb excitation in deformed nuclei. *Mat.-Fys. Skr. Danske Vid. Selsk.* 2, *no.* 6, 32 *pp.* (1964). (V. de Alfaro) 29 #4448

Winthrop, Joel

(with Cutler, Doyle O.) A note on a paper of Paul Hill and Charles Megibben. *Proc. Amer. Math. Soc.* 22 (1969), 428-429. (K. Honda) 39 #5689

Winton, C. N.

(with Mewborn, A. C.) Orders in self-injective semi-perfec rings. *J. Algebra* 13 (1969), 5-9. (B. L. Osofsky) 39 #6925

On the derived quotient module. *Trans. Amer. Math. Soc.* 15 (1971), 315-321. (B. L. Osofsky) 43 #2015

Wintz, Paul A.

(with Apple, Garrett G.) Calculation of Fourier transforms on finite Abelian groups. *IEEE Trans. Information Theory* IT-16 (1970), 233-234. (Authors' summary) 43 #813

(with Hayes, J. F.; Habibi, A.) Rate distortion function f a Gaussian source model of images. *IEEE Trans. Information Theo* IT-16 (1970), 507-509. (Authors' summary) 42 #7372

Wiorkowski, John J.

Pari-mutuel betting. *Gaz. Mat. (Lisboa)* 28 (1967), *no.* 105-108. 57-66. (J. Gani) 39 #6424

Wirgin, Armand

Considérations théoriques sur la diffraction par réflexion sur des surfaces, quasiment planes, applications à la diffractic par des réseaux. *C. R. Acad. Sci. Paris* 259 (1964), 1486-1488. (E. Meister) 29 #5522

Diffraction d'une onde plane par un réseau sinusoïdal. *C. Acad. Sci. Paris* 261 (1965), 2061-2064. (J. Van Bladel) 32 #3450; errata, 33, p. 1601

Considérations théoriques sur la diffraction par réflexion sur des surfaces quasiment planes; applications à la diffraction par les réseaux. *Rev. Optique* 44 (1965), 20-39. (E. Meister) 31 #1894

Sur un problème aux limites de Neumann de la diffraction. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), B792-B794. (E. Meister) 34 #8733

Sur la validité d'une représentation de la solution de l'equ tion de Laplace. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A724-A726. (Author's summary) 39 #1812

Wirsing, Eduard

Elementare Beweise des Primzahlsatzes mit Restglied. II. *J. Reine Angew. Math.* 214/215 (1964), 1-18. (M. Cugiani) 29 #3457

(with Miesner, W.) On the zeros of $\sum(n+1)^k z^n$. *J. London Math. Soc.* 40 (1965), 421-424. (A. Peyerimhoff) 31 #3581

On the monotonicity of the zeros of two power series. *Michigan Math. J.* 13 (1966), 215-218. (W. Miesner) 32 #7718

Das asymptotische Verhalten von Summen über multiplikative Funktionen. II. *Acta Math. Acad. Sci. Hungar.* 18 (1967), 411-46 (H. Halberstam) 36 #6366

A characterization of log *n* as an additive arithmetic function. *Symposia Mathematica, Vol. IV (INDAM, Rome,* 1968/69*), pp.* 45-57. *Academic Press, London,* 1970. (B. Garrison) 42 #5932

Wiscamb, Margaret Reames

The discrete countable chain condition. *Proc. Amer. Math. Soc.* 23 (1969), 608-612. (D. R. Traylor) 40 #1995

On symmetric neighborhood systems in metric, strongly paracompact and some other types of spaces. *Trans. Amer. Math. Soc.* 137 (1969), 431-450. (C. E. Aull) 38 #5186

Wisdom, William A.

Possibility-elimination in natural deduction. *Notre Dame J. Formal Logic* 5 (1964), 295-298. 36 #1306

Wise, J.

(See Non-linear transformations of stochastic processes, 32 #3120)

Wise, M. E.

A complete multinomial distribution compared with the X^2 approximation and an improvement to it. *Biometrika* 51 (1964), 277-281. 30 #5401

Wiser, H. C.

Embedding a circle of trees in the plane. *Pacific J. Math.* 15 (1965), 1463-1464. (O. G. Harrold) 33 #713

Near-homogeneity on 2-manifolds. *Amer. Math. Monthly* 74 (1967), 423-426. (F. Burton Jones) 35 #994

(with Robertson, J. M.) A note on polar topologies. *Canad. Math. Bull.* 11 (1968), 607-609. (K. Sundaresan) 39 #750

(with Robertson, J. M.) Topologies of uniform convergence. *Prace Mat.* 12 (1969), 231-235. (D. W. Hall) 39 #6246

Wishart, David M. G.

(with Keilson, J.) A central limit theorem for processes defined on a finite Markov chain. *Proc. Cambridge Philos. Soc.* 60 (1964), 547-567. (D. A. Darling) 29 #6523

(with Keilson, J.) Boundary problems for additive processes defined on a finite Markov chain. *Proc. Cambridge Philos. Soc.* 61 (1965), 173-190. (D. A. Darling) 30 #2538
(with Keilson, Julian) Addenda to processes defined on a finite Markov chain. *Proc. Cambridge Philos. Soc.* 63 (1967), 187-193. (J. F. C. Kingman) 34 #3648
A survey of control theory. Symposium on Control Theory. *J. Roy. Statist. Soc. Ser. A* 132 (1969), 293-319. (G. M. Ewing) 40 #8461
(See also Discussion of the papers by Dr. Wishart, Professor Whittle and Dr. Bather, 40 #8464)

Wishart, E. F.
(with Davis, R. D.) Galois extensions and the ramification sequence of some wildly ramified π-adic fields. *Proc. Amer. Math. Soc.* 30 (1971), 212-216. (E. Inaba) 44 #188

Wisliceny, Jürgen
(with Flachsmeyer, Jürgen) Power and construction of the structure of all compact extensions of a completely regular space. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 258-260. (R. Engelking) 32 #8309
Kompaktifizierungen mittels lokal zusammenhängender uniformer Strukturen. *Math. Nachr.* 48 (1971), 153-177. (H. Herrlich) 44 #5928

Wismer, David A.
A decomposition principle for the optimization of a class of distributed parameter systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 1092-1101. *Inst. Electr. Electron. Engineers, New York,* 1968. (Author's summary) 40 #522

Wisner, Robert J.
(with Jacobson, Bernard) Matrix number theory. I. Factorization of 2 × 2 unimodular matrices. *Publ. Math. Debrecen* 13 (1966), 67-72. (W. E. Jenner) 34 #2556

Wiśniewski, Henryk
(with Bobrowski, Dobiesław) On solving of a certain non-homogeneous system of two ordinary differential linear equations. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Poznań. No.* 29 (1965), 81-102. (O. Borůvka) 40 #5937
An estimate of the number of real zeros of a certain nth degree polynomial. (Polish. English and Russian summaries) *Fasc. Math. No.* 4 (1969), 71-78 (1970). (T. T. Tonkov) 42 #5958

Wiśniewski, K.
A note on the axiom of choice for finite sets. (Russian. English summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 373-375. (E. Mendelson) 36 #3656
Weakened forms of the axiom of choice for finite sets. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 615-620. (N. C. A. da Costa) 39 #54
(with Makowski, A.) Generalization of Abian's fixed point theorem. *Prace Mat.* 13 (1969), 63-65. (L. K. Durst) 42 #2945

isskirchen, Peter
* Ein Steuerungsprinzip der Intervallrechnung und dessen Anwendung auf den Gaußschen Algorithmus. BMwF-GMD-20 *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1969. iv + 43 *pp.* (H. H. Goldstine) 40 #1056

it, Romuald
Asymptotic and theshold values of the scattering amplitudes in some static models. *Acta Phys. Polon.* 28 (1965), 407-414. (S. Aramaki) 33 #7000
Some properties of the forward scattering amplitude at high energies. *Acta Phys. Polon.* 28 (1965), 415-421. (S. Aramaki) 33 #7001
On the high energy behaviour of the real part of the forward scattering amplitude. *Phys. Lett.* 15 (1965), 350-351. (N. Nakanishi) 32 #2053
(with Common, A. K.) Lower bounds to the $\pi^0\pi^0$ scattering length from unitarity, analyticity and crossing symmetry. (Italian and Russian summaries) *Nuovo Cimento A* (11) 3 (1971), 179-194. (D. I. Olive) 43 #8305

itkowski, J.
On a characterization of the Euclidean sphere. *Ann. Polon. Math.* 13 (1963), 121-127. (E. M. Zaustinsky) 30 #1455

itmer, T. Richard
(See Cardano, Girolamo, 40 #4074)

itsenhausen, Hans S.
Sets of possible states of linear systems given perturbed observations. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 19-27. *Univ. of Illinois, Urbana, Ill.,* 1967. (Author's summary) 41 #8088
A minimax control problem for sampled linear systems. *IEEE Trans. Automatic Control* AC-13 (1968), 5-21. (H. Taylor) 37 #6124
Sets of possible states of linear systems given perturbed observations. *IEEE Trans. Automatic Control* AC-13 (1968), 556-558. (R. S. Bucy) 38 #4194
A counterexample in stochastic optimum control. *SIAM J. Control* 6 (1968), 131-147. (M. Aoki) 37 #7202
Inequalities for the performance of suboptimal uncertain systems. (French, German and Russian summaries) *Automatica--J. IFAC* 5 (1969), 507-512. (C. P. Tsokos) 42 #7352
On monotonicity of conditional expectations. *IEEE Trans. Information Theory* IT-15 (1969), 501-502. (K. S. Miller) 39 #5234
An inequality of Kantorovitch type for Stieltjes integrals. *J. Math. Anal. Appl.* 28 (1969), 590-593. (M. Q. Jacobs) 40 #1839
On performance bounds for uncertain systems. *SIAM J. Control* 8 (1970), 55-89. (R. H. Farrell) 42 #8615
A duality property of the sets determined by distance ratios in normed spaces. *J. Math. Anal. Appl.* 33 (1971), 641-643. (M. V. Subbarao) 42 #6590

Witt, A. A. See Vitt, A. A.

Witte, Edith
* (with Macintyre, Sheila) German-English mathematical vocabulary. With a grammatical sketch by Lilias W. Brebner. Second edition. University Mathematical Texts, Vol. 18. *Oliver and Boyd, Edinburgh-London; Interscience Publishers, Inc.* [*John Wiley & Sons, Inc.*], *New York,* 1966. ix + 95 *pp.* (Editors) 34 #1134

de Witte, Leendert
Error estimates for smoothing and extrapolation formulae. *Comput. J.* 7 (1964), 220-221. (John Todd) 31 #5316
Über die Regularität der Spektralschar eines singulären elliptischen Differentialoperators. *Math. Z.* 107 (1968), 116-126. (H. O. Cordes) 41 #7314
Über das Verhalten der Spektralschar eines elliptischen Differentialoperators in der Umgebung der Singularität des Potentials $q(x) = |x|^{-\alpha}$. *Math. Z.* 115 (1970), 140-152. (B. Hellwig) 42 #2197

de Witte, Paul
(with Bouten, Marc) A new proof of an inequality of Szekeres, de Bruijn and Erdös. *Bull. Sox. Math. Belg.* 17 (1965), 475-483. (L. M. Kelly) 33 #3170
Combinatorial properties of finite linear spaces. I. *Bull. Soc. Math. Belg.* 18 (1966), 133-141. (L. M. Kelly) 34 #1913
A new property of non-trivial finite linear spaces. *Bull. Soc. Math. Belg.* 18 (1966), 430-438. (L. M. Kelly) 35 #5345
Combinatorial properties of finite plans. I. *Simon Stevin* 40 (1966/67), 11-19. (O. Wyler) 34 #4151
(with Vandewiele, Georges) A test of goodness of fit. *Statistica Neerlandica* 20 (1966), 87-105. (C. C. Craig) 34 #6929
Some new properties of semi-tactical λ-spaces. *Bull. Soc. Math. Belg.* 19 (1967), 13-24. (O. Wyler) 36 #62

Witten, Louis
(with Safko, John L.) Some properties of cylindrically symmetric Einstein-Maxwell fields. *J. Mathematical Phys.* 12 (1971), 257-270. (J. R. Vanstone) 43 #1592

Witten, Thomas, Jr.
(with Grubman, Ronald) The Faddeev equations for spin-dependent forces: Calculation of ^9Be binding energy. *Nuclear Phys.* A158 (1970), 289-308. (D. B. Fairlie) 43 #4384

Wittenberg, Alexandre
* Vom Denken in Begriffen: Mathematik als Experiment des reinen Denkens. Mit einem Geleitwort von Paul Bernays. Zweite Auflage. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. 360 *pp.* (Editors) 41 #3235

Wittenberg, Helen
Limiting distributions of random sums of independent random variables. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 3, 7-18 (1964). (J. R. Blum) 29 #2829

Wittenmark, B.
(with Åström K. J.) Problems of identification and control. *J. Math. Anal. Appl.* 34 (1971), 90-113. (J. Casti) 43 #4527

Wittgenstein, Ludwig
* Bemerkungen Über die Grundlagen der Mathematik/Remards on the foundations of mathematics. Edited by G. H. von Wright, R. Rhees, G. E. M. Anscombe. English translation by G. E. M. Anscombe. [The original German text is given on the left-hand pages.] *Basil Blackwell, Oxford,* 1964. *German: pp.* xix + 1-200; *English: pp.* xixe + 1e-196e, 201-204. (Editors) 33 #1196

Witthoft, William G.
A class of flexible nilstable algebras. *Proc. Amer. Math. Soc.* 22 (1969), 361-363. (D. L. Outcalt) 41 #5440
(with Kass, Seymour) Irreducible polynomial identities in anticommutative algebras. *Proc. Amer. Math. Soc.* 26 (1970), 1-9. (A. A. Sagle) 41 #5439

Wittich, Hans
Über eine Klasse holomorpher Funktionen. *J. Reine Angew. Math.* 214/215 (1964), 321-327. (G. af Hällström) 29 #249

Über eine Borelsche Indentität. *Math. Z.* 84 (1964), 233-243. (A. Edrei) 29 #4895

Über die Ordnung meromorpher Funktionen. *Arch. Math.* 16 (1965), 138-147. (Y. Komatu) 32 #4275

Zur Kennzeichnung linearer Differentialgleichungen mit konstanten Koeffizienten. *Festband* 70. *Geburtstag R. Nevanlinna, pp.* 128-134. *Springer, Berlin,* 1966. (D. V. V. Wend) 37 #5452

Zur Theorie linearer Differentialgleichungen im Komplexen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 379 (1966), 19 *pp.* (Z. Nehari) 33 #5989

Über einen Satz von G. H. Halphen. *Math. Z.* 101 (1967), 83-94. (J. Rausen) 36 #2857

Subnormale Lösungen der Differentialgleichung: $w'' + p(e^z)w' + q(e^z)w = 0$. *Nagoya Math. J.* 30 (1967), 29-37. (D. V. V. Wend) 35 #6897

* Neuere Untersuchungen über eindeutige analytische Funktionen. Zweite, korrigierte Auflage. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 8. *Springer-Verlag, Berlin-New York,* 1968. viii + 163 *pp.* (Editors) 39 #5804

Bemerkung zur Zerlegung linearer Differentialoperatoren mit ganzen Koeffizienten. *Math. Nachr.* 39 (1969), 363-372. (H. Herold) 40 #1622

Witting, Hermann

* Mathematische Statistik. Eine Einführung in Theorie und Methoden. Leitfäden der angewandten Mathematik und Mechanik, Band 9. *B. G. Teubner, Stuttgart,* 1966. 223 *pp.* (W. Uhlmann) 35 #5018

(with Krafft, O.) Optimale Tests und ungünstigste Verteilungen. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 289-302. (H. D. Brunk) 36 #1018

* Mathematische Statistik. Eine Einführung in Theorie und Methoden. Unveränderter Nachdruck. Leitfäden der angewandten Mathematik und Mechanik (LAMM), Band 9. *B. G. Teubner, Stuttgart,* 1969. 223 *pp.* (Editors) 42 #3888

On the theory of nonparametric tests. With discussion by W. Hoeffding. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind., 1969), pp.* 41-51. *Cambridge Univ. Press, London,* 1970. (R. H. Berk) 43 #1353

Wittler, Manfred

(with Shen, C. N.) A multiplier rule for a functional subject to certain integro-differential constraints. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 253-264. *Inst. Electr. Electron. Engineers, New York,* 1968. (From the authors' introduction) 40 #1175

Wittmann, Erich

Einfacher Beweis des Hauptsatzes von Hajós-Rédei für elementare Gruppen von Primzahlquadratordnung. *Acta Math. Acad. Sci. Hungar.* 20 (1969), 227-230. (K. Honda) 38 #5924

Paare von Gruppenklassen mit der Holomorph-Eigenschaft. *Arch. Math. (Basel)* 21 (1970), 32-30. (H. Nagao) 43 #7504

Über verschwindende Summen von Einheitswurzeln. *Elem. Math.* 26 (1971), 42-43. (L. D. Baumert) 43 #4752

Wittmeyer-Koch, L.

A method of descent for Chebyshev approximation. *Nordisk Tidskr. Informationsbehandling (BIT)* 8 (1968), 328-342. (Author's summary) 39 #1083

Wittrick, W. H.

A non-linear theory for the edge stresses in thin shells. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 155-177. (Yi-Yuan Yu) 31 #4248

Non-linear discontinuity stresses in shells of revolution under internal pressure. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sic.* 2 (1964), 179-188. (Yi-Yuan Yu) 31 #4249

Axisymmetrical bending of a highly stretched annular plate. *Quart. J. Mech. Appl. Math.* 18 (1965), 11-24. (H. D. Conway) 30 #3617

(with Williams, F. W.) A general algorithm for computing natural frequencies of elastic structures. *Quart. J. Mech. Appl. Math.* 24 (1971), 263-284. (H. E. Fettis) 44 #6195

Wittstock, Gerd

Über koerzive indefinite Metriken. *Ann. Acad. Sci. Fenn. Ser. A I No.* 347 (1964), 15 *pp.* (B. R. Gelbaum) 30 #1387

Über Majoranten indefiniter Bilinearformen. *Ann. Acad. Sci. Fenn. Ser. A I No.* 381 (1966), 39 *pp.* (M. R. Hestenes) 34 #8153

Über Zerlegungsmajoranten indefiniter Metriken. *Math. Z.* 91 (1966), 421-430. (B. R. Gelbaum) 32 #8127

Über invariante Teilräume zu positiven Transformationen in Räumen mit indefiniter Metrik. *Math. Ann.* 172 (1967), 167-175. (B. R. Gelbaum) 35 #4759

Über indefinit symmetrisierbare lineare Abbildungen. *Math. Z.* 111 (1969), 131-144. (H. Langer) 40 #7770

(with Behrends, Ehrhard) Tensorprodukte kompakter konvexer Mengen. *Invent. Math.* 10 (1970), 251-266. (A. Hulanicki) 42 #7574

(with Behrends, Ehrhard) Tensorprodukte und Simplexe. *Invent. Math.* 11 (1970), 188-198. (Z. Semadeni) 43 #2450

Wittwer, Gisela

Stationary distribution of a demand with partial return. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 357-364. (H.-J. Rossberg) 42 #3885

Optimal control of inventories that can be partially repaired (Russian. English summary) *Teor. Verojatnost. i Primenen.* 16 (1971), 514-523. (Editors) 44 #7964

Witty, W. H.

A new method of numerical integration of differential equations. *Math. Comp.* 18 (1964), 497-500. (M. Lotkin) 29 #2976

Witz, Klaus G.

Applications of a compactification for bounded operator semigroups. *Illinois J. Math.* 8 (1964), 685-696. (K. Yosida) 31 #2626

(with Wilde, Carroll) Invariant means and the Stone-Čech compactification. *Pacific J. Math.* 21 (1967), 577-586. (E. Granirer) 35 #3423

(with Rajagopalan, M.) On invariant means which are not inverse invariant. *Canad. J. Math.* 20 (1968), 222-224. (K. A. Ross) 36 #4329

Witzgall, C. J.

(with Zahn, C. T., Jr.) Modification of Edmonds' maximum matching algorithm. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 91-98. (W. T. Tutte) 32 #5548

On convex metrics. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 175-177. (G. Ewald) 32 #5365

(with Wets, Roger J.-B.) Algorithms for frames and lineality spaces of cones. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 1-7. (G. Ewald) 35 #4816

(with Mesztenyi, C.) Stable evaluation of polynomials. *J. Res. Nat. Bur. Standards Sect. B* 71B (1967), 11-17. (D. J. Evans) 35 #3859

(with Klee, Victor) Facets and vertices of transportation polytopes. *Mathematics of the Decision Sciences, Part I (Seminar, Stanford, Calif., 1967), pp.* 257-282. *Amer. Math. Soc., Providence R. I.,* 1968. (Authors' introduction) 38 #4134

(with Wets, R. J.-B.) Towards an algebraic characterization of convex polyhedral cones. *Numer. Math.* 12 (1968), 134-138. (G. T. Sallee) 38 #2665

* (with Stoer, Josef) Convexity and optimization in finite dimensions. I. Die Grundlehren der mathematischen Wissenschaften, Band 163. *Springer-Verlag, New York-Berlin,* 1970. ix + 293 *pp.* (B. Bereanu) 44 #3707

On complementary polar conical sets. *J. Res. Nat. Bur. Standards Sect. B* 74B (1970), 99-113. (J. Stoer) 42 #1528

(with Goldman, A. J.) A localization theorem for optimal facility placement. *Transportation Sci.* 4 (1970), 406-409. (Authors' summary) 42 #4181

Wiweger, A.

Some applications of the mixed topology to the theory of two-norm spaces. *Bull. Acad. Polon. Sic. Sér. Sci. Math. Astronom. Phys.* 9 (1961), 571-574. (Z. Semadeni (Zbl 102, 99)) 32 #4526

Examples of adjoint functors in categories of locally convex spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 81-85. (F. E. J. Linton) 33 #4655

(with Semadeni, Z.) A theorem of Eilenberg-Watts type for tensor products of Banach spaces. Proceedings of the Internationa Colloquium on Nuclear Spaces and Ideals in Operator Algebras (Warsaw, 18-25 June, 1969). *Studia Math.* 38 (1970), 235-242. (Bor-Luh Lin) 43 #3774

Wixom, James A.

(with Barnhill, R. E.) Quadratures with remainders of minimum norm. I. *Math. Comp.* 21 (1967), 66-75. (F. Stenger) 36 #6138

(with Barnhill, R. E.) Quadratures with remainders of minimum norm. II. *Math. Comp.* 21 (1967), 382-387. (F. Stenger) 36 #6139

(with Barnhill, R. E.) Tables related to quadratures with remainders of minimum norm. I. *Math. Comp.* 21 (1967), *no.* 99, *loose microfiche suppl.* C1-D4. (Editors) 36 #6140

(with Barnhill, Robert E.) An error analysis for interpolation of analytic functions. *SIAM J. Numer. Anal.* 5 (1968), 522-52 (R. A. Valentin) 39 #7795

(with Barnhill, Robert E.) An error analysis for the bivaria interpolation of analytic functions. *SIAM J. Numer. Anal.* 6 (1969 450-457. (G. Nielson) 43 #5683

Wizimirski, Z.

On the existence of the field of operators in the axiomatic quantum field theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 91-93. (H. Araki) 33 #5271

de W. Jooste, T. See Jooste, T. de W.

Wlassow, A. A. See Vlasov, A. A.

Włodarczyk, Edward

(with Kaliski, Sylwester) The propagation of a spherical unloading wave in layered medium. (Russian and Polish summaries) *Nonlinear Vibration Problems, 5, Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 469-492. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (J. Miklowitz) 32 #8601 (with Kaliski, S.; Nowacki, W. K.) Propagation and reflection of a spherical wave in an elastic-visco-plastic strain-hardening body. (Polish and Russian summaries) *Proc. Vibration Problems* 5 (1964), 31-56. (H. G. Hopkins) 30 #1674

Propagation and reflection of a plane and spherical shock-wave in an elastic-plastic body and a barotropic liquid. (Polish and Russian summaries) *Proc. Vibration Problems* 5 (1964), 349-375. (H. M. Sternberg) 31 #4265

łodarska, E.

On the representation of Post algebras preserving some infinite joins and meets. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 49A-54. (D. Monk) 42 #5871

łodarska-Dymitruk, A.

On a class of solutions of differential-difference equations. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 19 (1971), 29-35. (A. Halanay) 44 #1904

łodarski, Ł.

On the equation $\cos \alpha_1 + \cos \alpha_2 + \cos \alpha_3 + \cos \alpha_4 = 0$. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 147-155. (T. Storer) 41 #1641

łodek, J. J.

Expansion of certain chain matrices into a root chain. (Polish. Russian and English summaries) *Zastos. Mat.* 9 (1966/67), 187-195. (Author's summary) 36 #6132

loka, Joseph

Kernel functions and nuclear spaces. *Bull. Amer. Math. Soc.* 71 (1965), 720-723. (J. T. Schwartz) 31 #3845

Über die Gurewič-Hörmanderschen Distributionsräume. *Math. Ann.* 160 (1965), 321-362. (J. Horváth) 32 #8218

Reproduzierende Kerne und nukleare Räume. I. *Math. Ann.* 163 (1966), 167-188. (A. Pietsch) 33 #550

Über lineare s-Differentialgleichungen in der Operatorenrechnung. *Math. Ann.* 166 (1966), 233-256. (I. Fenyő) 34 #572

Nukleare Räume aus M. K.-Funktionen. *Math. Z.* 92 (1966), 295-306. (A. Pietsch) 33 #6373

Über Hilbert-Schmidtsche Einbettungen der Distributionsräume $\mathring{H}^{\mu}(\Omega)$. *Arch. Math. (Basel)* 18 (1967), 76-80. (S. Łojasiewicz) 35 #729

Über eine Abschätzung der Sobolevschen Konstanten. *Arch. Math. (Basel)* 18 (1967), 411-413. (P. G. Rooney) 36 #5686

Reproduzierende Kerne und nukleare Räume. II. *Math. Ann.* 172 (1967), 79-93. (A. Pietsch) 36 #681

Vektorwertige Sobolev-Slobodeckijsche Distributionen. *Math. Z.* 98 (1967), 303-318. (M. Dostál) 35 #7122

* (with Floret, Klaus) Einführung in die Theorie der lokalkonvexen Räume. Lecture Notes in Mathematics, No. 56. *Springer-Verlag, Berlin-New York,* 1968. vii + 194 *pp.* (D. R. Henney) 37 #1945

Kerne und p-integrale Abbildungen. *Arch. Math. (Basel)* 19 (1968), 499-507. (S. Goldberg) 38 #6370

Über die Cauchyaufgabe für korrekte Convolutionsgleichungssysteme. *Math. Ann.* 177 (1968), 210-220. (E. Gesztelyi) 37 #4615

nuk, M.

An approximation to elliptic integrals of the first and second kind by means of elementary functions and some applications to physical problems. (Polish and Russian summaries) *Zastos. Mat.* 7 (1964), 205-217. (A. Ghaffari) 32 #5932

On a certain transformation of the boundary condition in a problem solved by the small parameter method. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 323-334. (S. Drobot) 32 #6084

o, Hong-An. See Wo Hung-an.

odicka, R.

Über Beziehungen zwischen der Theorie der Translationsflächen und der Nomographie. *Arch. Math.* 16 (1965), 288-299. (E. Otto) 32 #3303

Über Fluchtliniennomogramme mit einer algebraischen Kurve vierter Ordnung als Skalenträger. (English and Russian summaries) *Z. Angew. Math. Mech.* 45 (1965), 315-321. (E. Otto) 33 #5158

Zur Herleitung der Gronwallschen Nomographierbarkeitsbedingungen. *Elem. Math.* 23 (1968), 102-106. (J. G. L. Michel) 38 #6790

Über zylindrisch-konische Flächen, bei denen die Kegelspitzen in einer Ebene liegen. *J. Reine Angew. Math.* 234 (1969), 187-196. (K. Strubecker) 39 #876

ogen, W. R.

On generators for von Neumann algebras. *Bull. Amer. Math. Soc.* 75 (1969), 95-99. (N. Suzuki) 38 #5020

On special generators for properly infinite von Neumann algebras. *Proc. Amer. Math. Soc.* 28 (1971), 107-113. (J. A. Erdos) 43 #2530

Wohler, Martin Ronald

A distributional study of the real frequency behavior of passive systems. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 708-713. *Univ. Illinois, Urbana, Ill.,* 1965. (Author's summary) 39 #6683

(with Beltrami, E. J.) Distributional boundary value theorems and Hilbert transforms. *Arch. Rational Mech. Anal.* 18 (1965), 304-309. (A. Lauwerier) 31 #3858

(with Beltrami, E. J.) A factorization theorem for holomorphic functions of polynomial growth in a half plane. *Bull. Amer. Math. Soc.* 71 (1965), 753-755. (A. Friedman) 31 #6117

* (with Beltrami, E. J.) Distributions and the boundary values of analytic functions. *Academic Press, New York-London,* 1966. xiv + 116 *pp.* (Z. Zieleźny) 34 #8172

(with Beltrami, E. J.) Distributional boundary values of functions holomorphic in a half plane. *J. Math. Mech.* 15 (1966), 137-145. (D. C. Rung) 33 #1466

(with Beltrami, E. J.) The Cauchy integral of tempered distributions and some theorems on analytic continuation. Sympos. Applications of Generalized Functions (Stony Brook, N. Y., 1966). *SIAM J. Appl. Math.* 15 (1967), 1077-1087. (P. Porcelli) 38 #4657

A quantitative measure of the passivity and activity of networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 46-54. (B. Hazeltine) 42 #7429

Wohlfahrt, Klaus

Über die Nullstellen einiger Eisensteinreihen. *Math. Nachr.* 26 (1963/64), 381-383. (O. F. G. Schilling) 29 #4743

An extension of F. Klein's level concept. *Illinois J. Math.* 8 (1964), 529-535. (J. Lehner) 29 #4805

Über Kleinsche Darstellungen der Modulgruppe. *Math. Ann.* 171 (1967), 110-130. (K. G. Ramanathan) 35 #5519

Zur Struktur der rationalen Modulgruppe. *Math. Ann.* 174 (1967), 79-99. (M. Eichler) 36 #2554

Eine Anwendung von $\eta(\tau)$. (English summary) *J. Number Theory* 2 (1970), 273-278. (J. V. Armitage) 43 #4764

On some representations of $SL(2, Z)$. *Illinois J. Math.* 15 (1971), 144-149. (A. M. Macbeath) 42 #7788

Wöhner, Winfried

Konvergenz- und Fehleruntersuchungen zu einem Naherungsverfahren der konformen Abbildung einfach zusammenhängender Gebiete. *Wiss. Z. Hochsch. Verkehrswesen "Friedrich List" Dresden* 12 (1965), 17-20. (F. W. Stallman) 38 #4663

Wo Hong-an. See Wo Hung-an.

Wo Hung-an

(with Tverskoĭ, B. A.) The influence of rotation on the appearance of turbulence in plane flows. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1030-1032. (D. A. Lee) 31 #1852

Woinsky, Melvin N.

(with Kurz, Ludwik) Sequential nonparametric two-way classification with a prescribed maximum asymptotic error probability. *Ann. Math. Statist.* 40 (1969), 445-455. (J. Capon) 38 #6727

Wójcicki, Ryszard

Analytic components of arbitrary definitions. (Polish. Russian and English summaries) *Studia Logica* 14 (1963), 119-154. 32 #1115

Logical matrices strongly adequate for structural sentential calculi. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 333-335. (E. Mihailescu) 41 #3248

On reconstructability of the classical propositional logic in intuitionistic logic. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 421-422. (B. van Rootselaar) 43 #1816

Some remarks on the consequence operation in sentential logics. *Fund. Math.* 68 (1970), 269-279. *(loose errata)* (B. Lercher) 42 #1650

Wojciechowska, A.

(with Weglorz, B.) Summability of pure extensions of relational structures. *Colloq. Math.* 19 (1968), 27-35. (J. Froemke) 37 #5136

Generalized limit powers. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 121-122. (B. Weglorz) 39 #5340

Generalized products for Q_α-languages. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 337-339. (M. Makkai) 41 #47

Limit reduced powers. *Colloq. Math.* 20 (1969), 203-208. (D. Monk) 40 #33

A note on models with orderings. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 413. (W. Schwabhäuser) 42 #7498

Wójcik, Jan

On the representation of primes by quadratic forms. (Polish. English summary) *Prace Mat.* 9 (1965), 19-21. (J. Kubilius) 31 #140

On the composite Lehmer numbers with prime indices. II. *Prace Mat.* 9 (1965), 105-113. (L. Carlitz) 30 #4722

A refinement of a theorem of Schur on primes in arithmetic progressions. *Acta Arith.* 11 (1966), 433-436. (O. H. Körner) 34 #4227

A refinement of a theorem of Schur on primes in arithmetic progressions. II. *Acta Arith.* 12 (1966/67), 97-109. (O. H. Körner) 34 #4228

Diophantine equations involving primes. *Ann. Polon. Math.* 18 (1966), 315-321. (B. J. Birch) 34 #2526; erratum, 38, p. 1376

A refinement of a theorem of Schur on primes in arithmetic progressions. III. *Acta Arith.* 15 (1968/69), 193-197. (O. H. Körner) 39 #161

Diophantine equations involving primes. II. *Ann. Polon. Math.* 20 (1968), 259-266. (Harvey Cohn) 38 #4402

On prime ideals with prescribed values of characters of prime degree. *Colloq. Math.* 20 (1969), 261-263. (G. Whaples) 39 #6857

(with Schinzel, A.) A note on the paper "Reducibility of lacunary polynomials. I". *Acta Arith.* 19 (1971), 195-201. (W. Ljunggren) 44 #6653

Wojdanowska-Zajac, R.

(with Piszczek, K.) Free vibrations of a beam on elastic supports with one weakly nonlinear boundary condition. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 391-403. (W. D. Kroll) 32 #8597

Wojdyło, B.

On some problems of J. Słomiński concerning equations in quasi-algebras. *Colloq. Math.* 21 (1970), 1-4. (M. Gould) 41 #137

Wojewoda, H.

Post-Newtonian equations of motion and the harmonicity conditions in the theory of gravitation. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 2051-2063 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 1408-1414. (Gerald Rosen) 31 #5659

Wojno, Włodzimierz

(with Perzyna, P.) On the constitutive equations of elastic/viscoplastic materials at finite strain. (Polish and Russian summaries) *Arch. Mech. Stos.* 18 (1966), 85-100. (W. Prager) 34 #8702

Wojtas, M.

On Hadamard's inequality for the determinants of order non-divisible by 4. *Colloq. Math.* 12 (1964), 73-83. (L. D. Baumert) 29 #5834

(with Nowak, J.) On maximal error-correcting codes. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 173-182. (From the authors' summary) 32 #5453

Wojtasiewicz, Olgierd

Towards a general theory of sign systems. II. (Polish and Russian summaries) *Studia Logica* 21 (1967), 81-89. (J. A. Schatz) 37 #2592

(See also Słupecki, J.; Borkowski, L., 37 #3904)

Wojtaszek, J. H.

(with Marshak, R. E.; Riazuddin) Electromagnetic mass differences of baryons and mesons. *Phys. Rev.* (2) 136 (1964), B1053-B1063. (S. L. Glashow) 31 #3108

(with Marshak, R. E.; Okubo, S.) Evidence for parity-SU(3) mixing in the meson nonets. *Phys. Rev. Lett.* 15 (1965), 463-467. (R. Mirman) 32 #3623

(See also Conference on Symmetry Principles at High Energy, Coral Gables, 33 #7025)

Wojtowicz, Jacek

On the anamorphizing function separating the variables in an equation with four variables. (Polish. Russian and English summaries) *Zastos. Mat.* 8 (1965), 85-91. (M. Z. v. Krzywoblocki) 31 #6396

An effective method of reducing the equation $H(x, y) = M(z, w)$ to three nomogrammable forms of an equation of the fourth nomographic order. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 23-39. (E. Otto) 38 #4070

Wojtyński, W.

On bases in certain countably-Hilbert spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 681-684. (M. S. Ramanujan) 34 #6498

A property of differentiable functions. *Colloq. Math.* 15 (1966), 303-306. (H. Fast) 34 #292

On conditional bases in non-nuclear Frechet spaces. *Studia Math.* 35 (1970), 77-96. (W. H. Ruckle) 42 #6576

Wojtyński, Wojciech

(See Erdélyi, Arthur, 35 #4641)

Wolaver, Dan H.

Proof in graph theory of the "no gain" property of resistor networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 436-437. (S. Hedetniemi) 42 #1593

Average gain of feedback system with one time-varying gain. *IEEE Trans. Automatic Control* AC-15 (1970), 449-452. (Author's summary) 43 #7231

Wold, Herman O. A.

On the consistency of least squares regression. *Sankhyā Ser. A* 25 (1963), 211-215. (R. L. Plackett) 30 #1578

(See also Bibliography on time series and stochastic processes, 34 #8467)

Nonlinear estimation by iterative least square procedures. *Research Papers in Statistics (Festschrift J. Neyman), pp.* 411-444. *John Wiley, London,* 1966. (P. S. Dwyer) 35 #1144

Estimation of principal components and related models by iterative least squares. *Multivariate Analysis (Proc. Internat. Sympos., Dayton, Ohio,* 1965*), pp.* 391-420. *Academic Press, New York,* 1966. (P. S. Dwyer) 36 #3457

A fix-point theorem with econometric background. I. The theorem. *Ark. Mat.* 6, 209-220 (1966). (M. Edelstein) 33 #6772

A fix-point theorem with econometric background. II. Illustrations. Further developments. *Ark. Mat.* 6, 221-240 (1966). (F. J. Beutler) 33 #6773

(with Ågren, Anders) On the structure and estimation of general interdependent systems. *Multivariate Analysis, II (Proc. Second Internat. Sympos., Dayton, Ohio,* 1968*), pp.* 543-565. *Academic Press, New York,* 1969. (A. K. Gayen) 42 #2594

Nonexperimental statistical analysis from the general point of view of scientific method. (French summary. With discussion) Proc. Thirty-sixth Session Internat. Statist. Inst. (Sydney, 1967). *Bull. Inst. Internat. Statist.* 42 (1969), 391-427. (J. W. (J. W. Pratt) 41 #4704

The correloid. *Zastos. Mat.* 10 (1969), 229-232. (P. Fortunati) 40 #980

Wolf, Adolf

* Positive Formen der Gestalt $ax^2 + by^2 + cz^2 + dt^2$ mit zwei und drei Ausnahmewerten. Inaugural-Dissertation zur Erlangung des Grades eines Doktors der Naturwissenschaften der Mathematisch-naturwissenschaftlichen Fakultät der Eberhard-Karls-Universität zu Tübingen. *Dissertation, Tübingen,* 1963. vi + 145 *pp.* (Burton W. Jones) 31 #2212

Wolf, Alfred A.

(with Ku, Y. H.) Volterra-Wiener functionals for the analysi of nonlinear systems. *J. Franklin Inst.* 281 (1966), 9-26. (F. J. Beutler) 32 #3922

An ergodic theorem and its generalization. *J. Franklin Inst.* 283 (1967), 286-299. (I. Csiszár) 36 #958

Measurement error of short-term correlation functions of ergodic processes. *J. Franklin Inst.* 289 (1970), 469-472. (A. Leonte) 43 #8118

Wolf, Emil

(See Progress in Optics, 31 #6519, 29 #1865 and 32 #741)

(with Marchand, E. W.) Comparison of the Kirchhoff and the Rayleigh-Sommerfeld theories of diffraction at an aperture. *J. Opt. Soc. Amer.* 54 (1964), 587-594. (W. Franzen) 29 #3111

(with Mehta, C. L.) Coherence properties of blackbody radiation. I. Correlation tensors of the classical field. *Phys. Rev.* (2) 134 (1964), A1143-A1149. (J. M. Jauch) 29 #1869

(with Mehta, C. L.) Coherence properties of blackbody radiation. II. Correlation tensors of the quantized field. *Phys. Rev.* (2) 134 (1964), A1149-A1153. (J. M.Jauch) 29 #1870

(with Mandel, L.; Sudarshan, E. C. G.) Theory of photoelectr detection of light fluctuations. *Proc. Phys. Soc.* 84 (1964), 435-444. (F. C. Auluck) 31 #4515

* (with Born, Max) Principles of optics: Electromagnetic theory of propagation, interference and diffraction of light. With contributions by A. B. Bhatia, P. C. Clemmow, D. Gabor, A. R. Stokes, A. M. Taylor, P. A. Wayman and W. L. Wilcock. Third Revised edition. *Pergamon Press, Oxford-New York-Paris,* 1965. xxviii + 808 *pp.* (Editors) 33 #6961

(with Mandel, L.) Coherence properties of optical fields. *Rev. Modern Phys.* 37 (1965), 231-287. (E. C. G. Sudarshan) 31 #4333

Wolf, František

(See Glivický, Josef, 32 #7383)

On accretive boundary problems of the second order. *Proc. Nat. Acad. Sci. U.S.A.* 53 (1965), 5-8. (M. Schechter) 30 #2225

Wolf, H. J.

The mathematician R. Lobatto and his scientific activities. (Dutch) *Nieuw Arch. Wisk.* (3) 18 (1970), 112-124. (P. Bockstaele 42 #7475

Wolf, J.

On the calculation of the ρ-trajectory. *Ann. Physik* (7) 12 (1963/64), 396-397. (Author's summary) 29 #1926

Méthodes de calcul des valeurs propres d'une matrice quelconq par utilisation de transformations unitaires. (English summary) *Rev. Francaise Traitement Information Chiffres* 9 (1966), 309-326. (B. N. Parlett) 34 #5269

Wolf, Jack Keil

(with Elspas, B.) Error-locating codes—a new concept in error control. *IEEE Trans. Information* IT-9 (1963), 113-117. (W. W. Peterson) 29 #4623

On codes derivable from the tensor product of check matrices. *IEEE Trans. Information Theory* IT-11 (1965), 281-284. (G. Solomon) 32 #9152

On an extended class of error-locating codes. *Information and Control* 8 (1965), 163-169. (S. S. Shrikhande) 30 #5848

(with Eddy, Thomas W.) Capacity of an additive guassian colored noise channel with noiseless feedback. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1968), pp.* 189-197. *Univ. of Illinois, Urbana, Ill.*, 1968. (Authors' summary) 41 #8129

Adding two information symbols to certain nonbinary BCH codes and some applications. *Bell System Tech. J.* 48 (1969), 2405-2424. (G. Solomon) 41 #1427

(with Schiff, Leonard) High-speed binary data transmission over the additive band-limited Gaussian channel. *IEEE Trans. Information Theory* IT-15 (1969), 287-295. (Authors' summary) 40 #3983

(with Shepp, Lawrence A.; Wyner, Aaron D.; Ziv, Jacob) Binary communication over the Gaussian channel using feedback with a peak energy constraint. *IEEE Trans. Information Theory* IT-15 (1969), 476-478. (Authors' summary) 39 #5231

(with Bridwell, J. D.) Burst distance and multiple-burst correction. *Bell System Tech. J.* 49 (1970), 889-909. (R. Alter) 42 #2856

(with Ziv, Jacob) Transmission of noisy information to a noisy receiver with minimum distortion. *IEEE Trans. Information Theory* IT-16 (1970), 406-411. (Authors' summary) 42 #7384

(with Wyner, A. D.; Ziv, J.) The channel capacity of the postal channel. *Information and Control* 16 (1970), 167-172. (Authors' summary) 42 #2855

Wolf, Joseph A.

Errata: "Homogeneous manifolds of zero curvature". *Trans. Amer. Math. Soc.* 106 (1963), 540. (Editors) 30 #1474

Isotropic manifolds of indefinite metric. *Comment. Math. Helv.* 39 (1964), 21-64. (L. W. Green) 31 #3987

Homogeneity and bounded isometries in manifolds of negative curvature. *Illinois J. Math.* 8 (1964), 14-18. (L. W. Green) 29 #565

Self adjoint function spaces on Riemannian symmetric manifolds. *Trans. Amer. Math. Soc.* 113 (1964), 299-315. (R. Hermann) 30 #1216

(with Korányi, Adam) Generalized Cayley transformations of bounded symmetric domains. *Amer. J. Math.* 87 (1965), 899-939. (A. Borel) 33 #229

(with Korányi, Adam.) Realization of hermitian symmetric spaces as generalized half-planes. *Ann. of Math.* (2) 81 (1965), 265-288. (H. Rossi) 30 #4980

Complex homogeneous contact manifolds and quaternionic symmetric spaces. *J. Math. Mech.* 14 (1965), 1033-1047. (S. Kobayashi) 32 #3020

Translation-invariant function algebras on compact groups. *Pacific J. Math.* 15 (1965), 1093-1099. (G. W. Mackey) 33 #1406

Exotic metrics on immersed surfaces. *Proc. Amer. Math. Soc.* 17 (1966), 871-877. (T. Klotz) 33 #3235

Surfaces of constant mean curvature. *Proc. Amer. Math. Soc.* 17 (1966), 1103-1111. (T. Klotz) 34 #765

* Spaces of constant curvature. *McGraw-Hill Book Co., New York-London-Sydney*, 1967. xv + 408 *pp.* (N. J. Hicks) 36 #829

The geometry and structure of isotropy irreducible homogeneous spaces. *Acta Math.* 120 (1968), 59-148. (K. Nomizu) 36 #6549

(with Gray, Alfred) Homogeneous spaces defined by Lie group automorphisms. I. *J. Differential Geometry* 2 (1968), 77-114. (R. Steinberg) 38 #4625a

(with Gray, Alfred) Homogeneous spaces defined by Lie group automorphisms. II. *J. Differential Geometry* 2 (1968), 115-159. (R. Steinberg) 38 #4625b

Growth of finitely generated solvable groups and curvature of Riemannian manifolds. *J. Differential Geometry* 2 (1968), 421-446. (W. Klingenberg) 40 #1939

A contact structure for odd dimensional spherical space forms. *Proc. Amer. Math. Soc.* 19 (1968), 196. (W. B. Houston, Jr.) 36 #2092

The action of a real semisimple group on a complex flag manifold. I. Orbit structure and holomorphic arc components. *Bull. Amer. Math. Soc.* 75 (1969), 1121-1237. (W. Klingenberg) 40 #4477

Symmetric spaces which are real cohomology spheres. *J. Differential Geometry* 3 (1969), 59-68. (T. Ohkubo) 40 #856

A compatibility condition between invariant riemannian metrics and Levi-Whitehead decompositions on a coset space. *Trans. Amer. Math. Soc.* 139 (1969), 429-442. (S. Murakami) 40 #5793

The automorphism group of a homogeneous almost complex manifold. *Trans. Amer. Math. Soc.* 144 (1969), 535-543. (A. Gray) 41 #956

(with Tirao, Juan A.) Homogeneous holomorphic vector bundles. *Indiana Univ. Math. J.* 20 (1970/71), 15-31. (R. L. E. Schwarzenberger) 41 #7715

(with Gromoll, Detlef) Some relations between the metric structure and the algebraic structure of the fundamental group in manifolds of nonpositive curvature. *Bull. Amer. Math. Soc.* 77 (1971), 545-552. (F. Brickell) 43 #6841

A commutativity criterion for closed subgroups of compact Lie groups. *Proc. Amer. Math. Soc.* 27 (1971), 619-622. (R. W. Richardson, Jr.) 43 #3396

Remark on discrete subgroups. *Proc. Amer. Math. Soc.* 29 (1971), 423-425. (H. Garland) 43 #4960

Wolf, Kurt Bernardo

(with Anderson, Robert Leonard) Complete sets of functions on homogeneous spaces with compact stabilizers. *J. Mathematical Phys.* 11 (1970), 3176-3183. (S. N. Biswas) 43 #1521

Transformation matrices between the $U_3 \supset U_2$ and $U_3 \supset O_3$ chains. (Spanish summary) *Rev. Mexicana Fis.* 19 (1970), 206-225. (Author's summary) 44 #3603

Recursive method for the computation of the SO_n, and $SO_{n,1}$, and ISO_n representation matrix elements. *J. Mathematical Phys.* 12 (1971), 197-206. (J.-P. Antoine) 43 #2931

Wolf, Robert A.

The volume of tubes in complex projective space. *Trans. Amer. Math. Soc.* 157 (1971), 347-371. (L. A. Santaló) 43 #6956

Wolfe, Antoinette W.

(with Keller, Herbert B.) On the nonunique equilibrium states and buckling mechaniam of spherical shells. *J. Soc. Indust. Appl. Math.* 13 (1965), 674-705. (Y. C. Fung) 32 #656

Wolfe, Dorothy

A minimal point of a finite metric set. *J. Combinatorial Theory* 2 (1967), 514-522. (T. L. Saaty) 35 #2769

Imbedding a finite metric set in an N-dimensional Minkowski space. *Nederl. Akad. Wetensch. Proc. Ser. A* 70 = *Indag. Math.* 29 (1967), 136-140. (L. M. Kelly) 35 #3629; erratum, 35, p. 1578

Wolfe, M. A.

(with Phillips, G. M.) Some methods for the solution of non-singular Volterra integro-differential equations. *Comput. J.* 11 (1968/69), 334-336. (Authors' summary) 38 #4065

The numerical solution of non-singular integral and integro-differential equations by iteration with Chebyshev series. *Comput. J.* 12 (1969/70), 193-196. (Author's summary) 39 #5080

The numerical solution of implicit first order ordinary differential equations with initial conditions. *Comput. J.* 14 (1971), 173-178. (Author's summary) 43 #4259

Wolfe, Peter

Diffraction of a scalar wave by a plane screen. *SIAM J. Appl. Math.* 14 (1966), 577-599. (Author's summary) 33 #6967

An existence theorem for the reduced wave equation. *Proc. Amer. Math. Soc.* 21 (1969), 663-666. (D. L. Colton) 42 #689

On the inverse of an integral operator. *Proc. Amer. Math. Soc.* 25 (1970), 443-448. (M. J. Fisher) 41 #877

The diffraction of waves by slits and strips. *SIAM J. Appl. Math.* 19 (1970), 20-32. (Y. Hayashi) 41 #9500

Eigenfunctions of the integral equation for the potential of the charged disk. *J. Mathematical Phys.* 12 (1971), 1215-1218. 44 #1312

Wolfe, Philip

Error in the solution of linear programming problems. *Error in Digital Computation, Vol.* 2 *(Proc. Sympos. Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis.*, 1965*), pp.* 271-284. *Wiley, New York*, 1965. (K. Ritter) 32 #4830

New methods of nonlinear programming. (Russian) *Appl. Math. Econom. Studies, Vol.* 3 *(Russian), pp.* 312-332. *Izdat. Soc.-Ėkonom. Lit. "Mysl'", Moscow*, 1965. (B. Bereanu) 35 #1352

The composite simplex algorithm. *SIAM Rev.* 7 (1965), 42-54. (G. B. Dantzig) 30 #4598

Methods of nonlinear programming. *Nonlinear Programming (NATO Summer School, Menton*, 1964*), pp.* 97-131. *North-Holland, Amsterdam*, 1967. (P. L. Hammer) 35 #7697

The product form of the simplex method. *Nonlinear Programming (NATO Summer School, Menton*, 1964*), pp.* 303-309. *North-Holland, Amsterdam*, 1967. (W. F. Tyndall) 36 #2388

Convergence conditions for ascent methods. *SIAM Rev.* 11 (1969) (1969), 226-235. (W. J. Kotzé) 40 #3690

Convergence conditions for ascent methods. II. Some corrections. *SIAM Rev.* 13 (1971), 185-188. (W. J. Kotzé) 44 #6138

Wolfe, Stephen James

On the unimodality of L functions. *Ann. Math. Statist.* 42 (1971), 912-918. (Author's summary) 43 #4087

Wolfenden, K.

(with Mitra, G.; Richards, D. B. C.) An improved algorithm for the solution of integer programs by the solution of associated Diophantine equations. (French summary) *Rev. Française Informat. Recherche Opérationnelle* 4 (1970), *Sér. R*-1, 47-60. (R. F. Albrecht) 44 #1432

Wolfenstein, Lincoln

Unitary symmetry and hyperon leptonic decays. *Phys. Rev.* (2) 135 (1964), B1436-B1441. (S. L. Glashow) 30 #2856

Imaginary Fermi constant *G* as a model of CP violation. *Phys. Lett.* 15 (1965), 196-198. (G. R. Allcock) 32 #854

Wolfenstein, Samuel

Sur les groupes réticulés archimédiennement complets. *C. R. Acad. Sci. Paris. Sér. A - B* 262 (1966), A813-A816. (P. F. Conrad) 33 #2739

Extensions archimédiennes non-commutatives de groupes réticulés commutatifs. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1-A4. (P. F. Conrad) 34 #5954

Valeurs normales dans un groupe réticulé. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 337-342. (P. F. Conrad) 38 #3201

Complétés archimédiens de groupes réticulés à valeurs finies. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A592-A595. (P. F. Conrad) 38 #3202

(with Bigard, Alain; Conrad, Paul) Compactly generated lattice-ordered groups. *Math. Z.* 107 (1968), 201-211. (W. C. Holland) 38 #4381

* Introduction to linear algebra and differential equations. *Holden-Day, San Francisco, Calif.-London-Amsterdam,* 1969. xiii + 254 *pp.* (D. London) 40 #154

Extensions archimédiennes de groupes réticulés transitifs. *Bull. Soc. Math. France* 98 (1970), 193-200. (S. J. Bernau) 42 #5879

von Wolfersdorf, Lothar

Zur Lösung der einfachsten zweidimensionalen singulären Integralgleichung. *Univ. e Politec. Torino Rend. Sem. Mat.* 22 (1962/63), 215-226 (1964). (R. T. Seeley) 29 #2619

Über das singuläre elliptische Neumannproblem der Tricomi-Gleichung. *Math. Nachr.* 25 (1963), 255-292. (C. S. Morawetz) 29 #1458

Berechnung einiger Laplace- und Fourier-Integrale. *Z. Angew. Math. Mech.* 43 (1963), 565-567. (W. A. Al-Salam) 29 #2605

Abelsche Integralgleichungen und Randwertprobleme für die verallgemeinerte Tricomi-Gleichung. *Math. Nachr.* 29 (1965), 161-178. (J. W. Miles) 31 #6103

Über eine Beziehung zwischen Integralen nichtganzer Ordnung. *Math. Z.* 90 (1965), 24-28. (H. A. Lauwerier) 33 #524

Berichtigung: "Abelsche Integralgleichungen und Randwertprobleme für die verallgemeinerte Tricomi-Gleichung". *Math. Nachr.* 32 (1966), 246. (Editors) 34 #3264

(See also Lavrent'ev, M. A.; Šabat, B. V., 35 #345)

Eine Bemerkung zur Theorie der symmetrischen Zeitspiele. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 3 (1967), 307-313. (G. Owen) 37 #7184

Zur Berechnung optimaler Strategien für Spiele Über dem Einheitsquadrat mit an der Hauptdiagonalen unstetigen Auszahlungsfunktionen. *S.-B. Sächs. Akad. Wiss. Leipzig Math.-Natur. Kl.* 107, *no.* 7, 53 *pp.* (1967). (N. Zierler) 38 #1920

Bemerkung zur Theorie der verallgemeinerten Tricomi-Gleichung. *Z. Angew. Math. Mech.* 47 (1967), 205-206. (P. Germain) 36 #5542

Geschlossene Lösung einiger Sjöstrandscher Probleme für Differentialgleichungen vom zusammengesetzten Typ. *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg* M1 (1968/69), 91-100. (J. R. Cannon) 40 #561

Geschlossene Lösung einiger Hadamardscher Randwertprobleme für Differentialgleichungen vom zusammengesetzten Typ. *Z. Angew. Math. Mech.* 48 (1968), 423-426. (H. Beckert) 38 #3609

Ein Kopplungsproblem für analytische Funktionen. *Math. Nachr.* 41 (1969), 319-334. (W. Żakowski) 40 #7461

Das Sjöstrandsche Problem der Richtungsableitung für die Gleichung $\partial\Delta\mu/\partial x = 0$. *Math. Nachr.* 41 (1969), 371-379. (J. R. Cannon) 40 #6086

Eindeutigkeitssätze für zwei Randwertprobleme bei einer Gleichung vom gemischt-zusammengesetzten Typ. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 445-454. (S. A. Tersenov) 43 #3646

Zur Darstellung der Lösungen zweier Hadamardscher Probleme bei der Gleichung $\partial\Delta u/\partial x = 0$. *Z. Angew. Math. Mech.* 49 (1969), 636-638. (H. Beckert) 41 #663

Zur Lösung der verallgemeinerten Abelschen Integralgleichung mit konstanten Koeffizienten. *Z. Angew. Math. Mech.* 49 (1969), 759-761. (H. C. Kranzer) 41 #763

(with Gerlach, Wolfgang) Über einige Sjöstrandsche Probleme für Differentialgleichungen vom zusammengesetzten Typ. *Elliptische Differentialgleichungen, Band I (Kolloq., Berlin, 1969), pp.* 47-52. *Akademie-Verlag, Berlin,* 1970. (J. R. Cannon) 43 #734

Ein Kopplungsproblem für verallgemeinerte analytische Funktionen. *Math. Nachr.* 45 (1970), 243-261. (H. Beckert) 44 #452

Sjöstrandsche Probleme der Richtungsableitung bei einer Gleichung vom zusammengesetzten Typ. *Math. Nachr.* 45 (1970), 263-277. (H. Beckert) 44 #453

Sjöstrandsche Probleme bei einem System von partiellen Differentialgleichungen vom zusammengesetzten Typ. *Math. Nachr.* 46 (1970), 323-339. (J. R. Cannon) 43 #740

Wolff, Christian

(See Briefwechsel zwischen Leibniz und Christian Wolff, 29 #1131)

* Gesammelte Werke. I. Abteilung. Deutsche Schriften. Band 11. Mathematisches Lexicon. Herausgegeben und bearbeitet von J. E. Hofmann. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1965. xvi + xv + 833 *pp.* (F. Krafft) 33 #1209

Wolff, Georg K.

The beginning of descriptive geometry. *Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Cracovie, 1965), Sect. III: Histoire des Sciences Exactes (Astronomie, Mathematiques, Physique), pp.* 143-153. *Ossolineum, Wrocław,* 1968. (E. B. Allen) 41 #5145

Wolff, Hans

(with Henze, Ernst) Zur Konvergenz von Lernprozessen. *Wiss. Beiträge Martin-Luther-Univ. Halle-Wittenberg* M1 (1968/69), 29-36. (Authors' review (Zbl 181, 475)) 42 #2823

Wolff, Hilger

Minkowskische und absolute Geometrie. I. *Math. Ann.* 171 (1967), 144-164. (R. Lingenberg) 35 #3540a

Minkowskische und absolute Geometrie. II. *Math. Ann.* 171 (1967), 165-193. (R. Lingenberg) 35 #3540b

(with Kinder, Henner) Orthokomplementäre modulare Verbände und elliptische Räume. *Abh. Math. Sem. Univ. Hamburg* 34 (1969/70) 252-265. (E. W. Ellers) 42 #3660

(with Ahrens, Joachim; Dress, Andreas) Relationen zwischen Symmetrien in orthogonalen Gruppen. *J. Reine Angew. Math.* 234 (1969), 1-11. (F. D. Veldkamp) 39 #4289

Wolff, Karl-Heinz

Ein Beitrag zur Theorie der Ruinwahrscheinlichkeit. *Monatsh. Math.* 71 (1967), 64-79. (D. L. Iglehart) 35 #1101

von Wolff, M. R. See Von Wolff, M. R.

Wolff, Manfred

Über das Spektrum von Verbandshomomorphismen in *C*(*X*). *Math. Ann.* 182 (1969), 161-169. (K. K. Oberai) 40 #776

Über das Spektrum von Verbandshomomorphismen in Banach-Verbänden. *Math. Ann.* 184 (1969), 49-55. (W. A. J. Luxemburg) 44 #778

Über das Spektrum konvexer Kombinationen von Operatoren. *Arch. Math. (Basel)* 21 (1970), 72-81. (J. W. Baker) 42 #894

* Optimale Instandhaltungs-politiken in einfachen Systemen. Lecture Notes in Operations Research and Mathematical Systems, Vol. 18. *Springer-Verlag, Berlin-New York,* 1970. v + 143 *pp.* 42 #3886

Vektorwertige invariante Maße von rechtsamenablen Halbgruppen positiver Operatoren. *Math. Z.* 120 (1971), 265-276. (W. A. J. Luxemburg) 43 #7585

Wolff, Ronald W.

Problems of statistical inference for birth and death queuein models. *Operations Res.* 13 (1965), 343-357. (D. G. Kendall) 32 #538

Work-conserving priorities. *J. Appl. Probability* 7 (1970), 327-337. (C. Mohan) 41 #7792

Time sharing with priorities. *SIAM J. Appl. Math.* 19 (1970), 566-574. (D. V. Lindley) 42 #8593

Wolff, Stephen S.

(with Gastwirth, J. L.) On the relation between a particular stochastic process and its two imbedded Markov processes. *Sankhyā Ser. A* 28 (1966), 151-156. (L. Takács) 36 #942

(with Gastwirth, Joseph L.) An elementary method for obtaining lower bounds on the asymptotic power of rank tests. *Ann. Math. Statist.* 39 (1968), 2128-2130. (Z. Govindarajulu) 38 #179

Wolffhardt, Klaus

Existenzsätze für maximale holomorphe und meromorphe Abbildungen. *Math. Z.* 85 (1964), 328-344. (R. C. Gunning) 31 #383

Variation of a complex structure in a point. *Amer. J. Math.* 90 (1968), 553-567. (Ngô van Quê) 37 #3054

Über eine Charakterisierung der Determinante. *Math. Z.* 103 (1968), 259-267. (S. Hitotumatu) 36 #6402

Die Betti-Reihe und die Abweichungen eines lokalen Rings. *Math. Z.* 114 (1970), 66-78. (T. H. Gulliksen) 43 #1972

Zur Homologietheorie der assoziativen Algebren. (English summary) *Manuscripta Math.* 4 (1971), 149-168. (E. Enochs) 44 #3996

Wolfowitz, J.

On channels without a capacity. *Information and Control* 6 (1963), 49-54. (J. H. B. Kemperman) 29 #2108

The capacity of an indecomposable channel. *Sankhyā Ser. A* 25 (1963), 101-108. (H. F. Mattson) 30 #4613

* Coding theorems of information theory. Second edition. Ergebnisse der Mathematik und ihrer Grenzgebiete, Neue Folge, Band 31. *Springer-Verlag, Berlin-Göttingen-New York,* 1964. x + 156 *pp.* (Editors) 31 #1123

(with Kiefer, J.) Optimum extrapolation and interpolation designs. I, II. *Ann. Inst. Statist. Math.* 16 (1964), 79-108; *ibid.* 16 (1964), 295-303. (J. Sacks) 31 #2806

(with Kiefer, J.) On a theorem of Hoel and Levine on extrapolation designs. *Ann. Math. Statist.* 36 (1965), 1627-1655. (A. Dvoretzky) 32 #3230 (with Kiefer, J.) On a problem connected with the Vandermonde determinant. *Proc. Amer. Math. Soc.* 16 (1965), 1092-1095. (A. Dvoretzky) 32 #115

Asymptotic efficiency of the maximum likelihood estimator. (Russian summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 267-281. (J. W. Pratt) 32 #1811

Remark on the optimum character of the sequential probability ratio test. *Ann. Math. Statist.* 37 (1966), 726-727. (H. Chernoff) 33 #1941

(with Weiss, Lionel) Generalized maximum likelihood estimators. (Russian summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 68-93. (P. J. Huber) 34 #3707

(with Teicher, H.) Existence of optimal stopping rules for linear and quadratic rewards. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 5 (1966), 361-368. (Y. S. Chow) 35 #1162

Approximation with a fidelity criterion. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 565-573. *Univ. California Press, Berkeley, Calif.*, 1967. (H. F. Mattson, Jr.) 35 #7729

* Теоремы кодирования теории информации. (Russian) [Coding theorems on information theory] Translated from the English second edition by L. E. Filippova. Edited by R. L. Dobrušin. *Izdat. "Mir", Moscow*, 1967. 248 *pp.* (Editors) 36 #7438

(with Weiss, Lionel) Maximum probability estimators. *Ann. Inst. Statist. Math.* 19 (1967), 193-206. (J. R. Blum) 38 #813

The moments of recurrence time. *Proc. Amer. Math. Soc.* 18 (1967), 613-614. (J. R. Blum) 36 #2225

(with Weiss, Lionel) Estimation of density function at a point. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 7 (1967), 327-335. (A. Fuchs) 37 #5973

(with Weiss, Lionel) Generalized maximum likelihood estimators in a particular case. (Russian summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 657-662. (V. Kurotschka) 40 #968

(See also Probability and information theory, 42 #1249)

(with Ahlswede, R.) The structure of capacity functions for compound channels. *Probability and Information Theory (Proc. Internat. Sympos., McMaster Univ., Hamilton, Ont., 1968), pp.* 12-54. *Springer, Berlin*, 1969. (S. Kotz) 42 #2850

(with Weiss, Lionel) Maximum probability estimators with a general loss function. *Probability and Information Theory (Proc. Internat. Sympos., McMaster Univ., Hamilton, Ont., 1968), pp.* 232-256. *Springer, Berlin*, 1969. (J. Kiefer) 42 #3911

(with Ahlswede, R.) Correlated decoding for channels with arbitrarily varying channel probability functions. *Information and Control* 14 (1969), 457-473. (E. C. Posner) 40 #1181

(with Weiss Lionel) Asymptotically minimax tests of composite hypotheses. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 161-168. (D. V. Lindley) 41 #2830

Reflections on the future of mathematical statistics. *Essays in Probability and Statistics, pp.* 739-750. *Univ. of North Carolina Press, Chapel Hill, N. C.*, 1970. (I. J. Good) 41 #9386

(with Weiss, Lionel) Maximum probability estimators and asymptotic sufficiency. *Ann. Inst. Statist. Math.* 22 (1970), 225-244. (I. Guttman) 43 #4075

(with Ahlswede, R.) The capacity of a channel with arbitrarily varying channel probability functions and binary output alphabet. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 186-194. (J. Kiefer) 43 #4535

(with Ahlswede, R.) Channels without synchronization. *Advances in Appl. Probability* 3 (1971), 383-403. (R. J. McEliece) 44 #8030

Wolfson, Robert J.

(with Brown, George W.; Lu, John Y.) Dynamic modeling of inventories subject to obsolescence. *Management Sci.* 11 (1964/65), 51-63. (Authors' summary) 30 #2911

Wolfson, Seymour J.

A closed form for Elsasser integrals. *J. Mathematical Phys.* 7 (1966), 1337-1339. (F. W. J. Olver) 34 #390

Wolk, B.

(with Grätzer, G.) Finite projective distributive lattices. *Canad. Math. Bull.* 13 (1970), 139-140. (R. Balbes) 41 #5264

olk, E. S.

The comparability graph of a tree. *Proc. Amer. Math. Soc.* 13 (1962), 789-795. (A. J. Hoffman) 30 #2493

A theorem on power sets. *Amer. Math. Monthly* 72 (1965), 397-398. (S. Marcus) 32 #1128

A note on "The comparability graph of a tree". *Proc. Amer. Math. Soc.* 16 (1965), 17-20. (A. J. Hoffman) 30 #2494

Partially well ordered sets and partial ordinals. *Fund. Math.* 60 (1967), 175-186. (R. P. Dilworth) 35 #93

On theorems of Tychonoff, Alexander, and R. Rado. *Proc. Amer. Math. Soc.* 18 (1967), 113-115. (W. H. Gottschalk) 34 #3529

The topology of a partially well ordered set. *Fund. Math.* 62 (1968), 255-264. (R. P. Dilworth) 37 #2637

A characterization of partial order. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 207-208. (R. P. Dilworth) 40 #5506

ölk, Rolf-Dieter

Topologische Möbiusebenen. *Math. Z.* 93 (1966), 311-333. (H. Salzmann) 33 #6491

Wolke, Dieter

A note on the least prime quadratic residue (mod *p*). *Acta Arith.* 16 (1969/70), 85-87. (K. S. Williams) 39 #6842

Moments of the number of classes of primitive quadratic forms with negative discriminant. *J. Number Theory* 1 (1969), 502-511. (S. Chowla) 40 #5543

* Einige Anwendungen des großen Siebes auf zahlentheoretische Funktionen. Habilitationsschrift. *Philipps-Universität Marburg/Lahn, Marburg/Lahn*, 1970. i + 37 *pp.* (W. Schwarz) 43 #4784

Farey-Brüche mit primem Nenner und das große Sieb. *Math. Z.* 114 (1970), 145-158. (H. Halberstam) 41 #5328

Multiplikative Funktionen auf schnell wachsenden Folgen. *J. Reine Angew. Math.* 251 (1971), 54-67. (D. Rearick) 44 #6629

Wolkowisky, Jay H.

A nonlinear Sturm-Liouville problem. *Bull. Amer. Math. Soc.* 73 (1967), 634-636. (Z. Nehari) 36 #459

Existence of buckled states of circular plates. *Comm. Pure Appl. Math.* 20 (1967), 549-560. (A. E. Green) 35 #3952

Nonlinear Sturm-Liouville problems. *Arch. Rational Mech. Anal.* 35 (1969), 299-320. (H. K. Wilson) 40 #4528

Buckling of the circular plate embedded in elastic springs. An application to geophysics. *Comm. Pure Appl. Math.* 22 (1969), 639-667. (H. J. Weinitschke) 40 #5241

Woll, E. J., Jr.

Evaluation of lattice thermal conductivity for a disordered one-dimensional harmonic crystal. *Phys. Rev.* (2) 137 (1965), A95-A102. (A. A. Maradudin) 32 #5310

Woll, John W., Jr.

* Functions of several variables. *Harcourt, Brace & World, Inc., New York-Chicago, Ill.*, 1966. xi + 169 *pp.* (R. L. Bishop) 36 #2759

Wollenberg, L. S.

Lie brackets which reduce to the Poisson bracket. *J. London Math. Soc.* (2) 1 (1969), 331-334. (S. Sankaran) 39 #5644

Sine and Poisson brackets--a distinction. *J. London Math. Soc.* 44 (1969), 592-594. (R. Mirman) 40 #1436

Derivations of the Lie algebra of polynomials under Poisson bracket. *Proc. Amer. Math. Soc.* 20 (1969), 315-320. (R. Arens) 38 #2259

Wollkind, David J.

(with Frisch, H. L.) Linear perturbation analysis of the stability of a dissociating fluid. *Phys. Fluids* 13 (1970), 52-61. (H. K. Cheng) 40 #6847

Wollmer, Richard D.

Removing arcs from a network. *Operations Res.* 12 (1964), 934-940. (P. L. Ivănescu) 30 #1857

Stochastic sensitivity analysis of maximum flow and shortest route networks. *Management Sci.* 14 (1968), 551-564. (Author's summary) 39 #2536

Maximizing flow through a network with node and arc capacities. *Transportation Sci.* 2 (1968), 213-232. (Leonard Weiss) 40 #1201

Selecting and sequencing tests in adaptive checkout processes. *J. Math. Anal. Appl.* 31 (1970), 213-232. (D. L. Iglehart) 41 #5040

Interception in a network. *Naval Res. Logist. Quart.* 17 (1970), 207-216. (D. Rosenblatt) 42 #4331

Wollny, Wolfgang

* Reguläre Parkettierung der euklidischen Ebene durch unbeschränkte Bereiche. B·I-Hochschultaschenbücher, 711/711a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich*, 1969. 246 *pp.* *(69 plates)* (J. J. Burckhardt) 41 #9105

Wolock, F. W.

(with David, H. A.) Cyclic designs. *Ann. Math. Statist.* 36 (1965), 1526-1534. (S. S. Shrikhande) 31 #5806

Wolodin, B. G. See Volodin, B. G.

Wołodźko, Stanisław

A certain estimate for the first eigenvalue of the equation for a nonhomogeneous string. (Polish. English and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* (1966), 257-264. (O. Borůvka) 36 #5423

Estimation of the standard deviation of a random variable of continuous type. (Polish. English and Russian summaries) *Wyższ. Szkoła Ped. Krakow. Rocznik Nauk.-Dydakt. Zeszyt* 25 *Prace Mat. No.* 4 (1966), 265-284. (Petr Mandl) 35 #6181

Solution générale de l'équation fonctionnelle $f[x + yf(x)] = f(x)f(y)$. *Aequationes Math.* 2 (1968), 12-29. (B. Schweizer) 38 #1422

Wolovich, William A.

On state estimation of observable systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.*, 1968*), pp.* 210-220. *Inst. Electr. Electron. Engineers, New York*, 1968. (Author's summary) 40 #2371

On the stabilization of controllable systems. *IEEE Trans. Automatic Control* AC-13 (1968), 569-572. (P. E. Sarachik) 40 #2370

(with Falb, P. L.) On the structure of multivariable systems. *SIAM J. Control* 7 (1969), 437-451. (D. H. Chyung) 41 #6592

Wolpert, A. I. See Vol'pert, A. I.

Wölpert, Heinrich

* Transformationstheorie der quadratischen Strahlkomplexe der Charakteristik [(33)]. Von der Universität Stuttgart (TH) zur Erlangung der Würde eines Doktors der Naturwissenschaften genehmigte Abhandlung. *Technische Hochschule Stuttgart, Stuttgart*, 1968. 49 *pp.* (K. Strubecker) 38 #3784

Wolska, J. See Wolska-Bochenek, Janina.

Wolska-Bochenek, Janina

(with Piskorek, A.) In memory of Witold Pogorzelski. *Ann. Polon. Math.* 16 (1964), 1-16. (Editors) 30 #4666

(with Otto, Edward; Sadowska, Danuta; Oderfeld, Jan; Borsuk, Karol; Rytel, Zdzisław; Piatkiewicz, Aleksy; Leitner, Roman; Żakowski, Wojciech; Bieńkowska-Lipińska, Krystyna) Professor Witold Pogorzelski. (Polish) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 113-136. (Editors) 32 #5487

Boundary problem for the parabolic equation with unbounded coefficients (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 3 (1964), 261-274. (Author's summary) 32 #7967

Boundary value of the normal derivative of the potential of the double layer in the heat conductivity equation. (Polish. Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 83 (1964) *zeszyt* 1, 3-11. 32 #6072

Contribution à la théorie de W. Pogorzelski concernant une équation parabolique et un système parabolique d'équations aux coefficients discontinus. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 7-22. (D. E. Edmunds) 38 #4807

Sur un problème non-linéaire d'Hilbert dans la théorie des fonctions pseudo-analytiques. (Polish, Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 145-157. (M. O. Gonzalez) 38 #6082

Sur un problème aux limites discontinues dans la théorie des fonctions pseudo-analytiques. (Polish, Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 12 (1968), 23-37. (M. O. Gonzalez) 38 #6083

On some generalized nonlinear problem of the Hilbert type. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 14 (1968), 15-32. (E. Meister) 39 #7118

Wolter, David G.

(with Earl, Robert W.) The asymptotic values of response probabilities in the Audley-Jonckheere learning model. *Psychometrika* 34 (1969), 203-214. 39 #6479

Wolter, Hans

Farboperatoren und ihre Darstellungen durch Matrizen und Integralkerne. *Ann. Physik* (7) 16 (1965), 184-194. (B. Gross) 32 #6869

Normalfarben in einem dreidimensionalen Unterraum des Hilbert-Raums. *Ann. Physik* (7) 16 (1965), 224-234. (Author's summary) 33 #2103

Wolter, Helmut

Eine Erweiterung der klassischen Analysis. *Z. Math. Logik Grundlagen Math.* 14 (1968), 167-184. (L. D. Kugler) 37 #5089

(with Hauschild, Kurt) Zur Charakterisierung von Theorien mit syntaktisch beschreibbarer Auswahlfunktion. *Z. Math. Logik Grundlagen Math.* 14 (1968), 263-266. (E. Engeler) 37 #2588

(with Hauschild, Kurt) Über die Kategorisierbarkeit gewisser Körper in nicht-elementaren Logiken. *Z. Math. Logik Grundlagen Math.* 15 (1969), 157-162. (L. D. Kugler) 39 #5341

Wolters, G. F.

A study of resonances in view of spin determination. I-VI. *Nederl. Akad. Wetensch. Proc. Ser. B* 67 (1964), 192-201; *ibid.* 67 (1964), 202-207; *ibid.* 67 (1964), 208-213; *ibid.* 67 (1964), 220-233; *ibid.* 67 (1964), 234-242; *ibid.* 67 (1964), 243-257. (J. M. Blatt) 30 #1797

Simple method for the explicit calculation of *d*-functions. *Nuclear Phys.* B18 (1970), 625-653. (N. Mukunda) 42 #7173

Woltjer, L.

(with Contopoulos, G.) The "third" integral in non-smooth potentials. *Astrophys. J.* 140 (1964), 1106-1119. (J. M. A. Danby) 31 #5668

Wolverton, Charles T.

A note on the application of Dvoretzky's theorem to nonlinear filtering. *IEEE Trans. Information Control* AC-14 (1969), 117. (T. V. Avadhani) 42 #5314

(with Wagner, Terry J.) Asymptotically optimal discriminant functions for pattern classification. *IEEE Trans. Information Theory* IT-15 (1969), 258-265. (T. V. Avadhani) 43 #1329

Womack, Baxter F.

(with O'Donnell, Robert P.) On initial conditions of sensitivity generators for systems with jump conditions in parameters *Eleventh Joint Automatic Control Conf. of Amer. Automatic Contro Council (Georgia Inst. Tech., Atlanta, Ga., 1970), pp.* 436-440. *Amer. Soc. Mech. Engrs., New York*, 1970. (Authors' summary) 41 #8071

(with Masten, M. K.) Minimum sensitivity design of optimal linear tracking systems. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 181-190. *Univ. of Illinois, Urbana, Ill.*, 1967. (Authors' summary) 41 #8106

(with Albertson, H. D.) Input and output degrees of freedon of linear systems. *IEEE Trans. Automatic Control* AC-13 (1968), 745. (Authors' summary) 42 #8947

Wonenburger, María J.

A decomposition of orthogonal transformations. *Canad. Math. Bull.* 7 (1964), 379-383. (W. E. Deskins) 29 #3479

Triality principle for semisimilarities. *J. Algebra* 1 (1964), 335-341. (J. Dieudonné) 30 #1194

Simultaneous diagonalization of symmetric bilinear forms. *J. Math. Mech.* 15 (1966), 617-622. (M. P. Drazin) 35 #210

Transformations which are products of two involutions. *J. Math. Mech.* 16 (1966), 327-338. (H. Minc) 34 #5850

Automorphisms of Cayley algebras. *J. Algebra* 12 (1969), 441-452. (M. L. Tomber) 39 #277

Wong, C. K.

On the solutions of a sequence of Lamé differential equation *Proc. Amer. Math. Soc.* 28 (1971), 481-488. (C. Carton-Lebrun) 44 #1851

A uniformization theorem for arbitrary Riemann surfaces with signature. *Proc. Amer. Math. Soc.* 28 (1971), 489-495. (C. Earle 43 #5026

Wong, Chi Song

Subadditive functions. *Pacific J. Math.* 36 (1971), 549-551. (B. Margolis) 43 #4974

Wong, David Y.

Dispersion relations and applications. *Dispersion Relations and Their Connection with Causality (Proc. Internat. School of Phys. "Enrico Fermi", Course XXIX, Varenna, 1963), pp.* 68-96. *Academic Press, New York*, 1964. (P. Roman) 29 #4479

(with Scotti, A.) Multimeson resonances and nucleon-nucleon interaction. *Phys. Rev.* (2) 138 (1965), B145-B162. (M. J. Moravcsik) 32 #3578

(with Fulco, Jose R.) Connections between the static bootstrap theory and the algebra of current components. *Phys. Rev. Lett.* 15 (1965), 274-277. (R. H. Capps) 32 #869

Wong, Edward T.

Atomic quasi-injective modules. *J. Math. Kyoto Univ.* 3 (1963/64), 295-303. (R. E. Johnson) 29 #5864

Jacobson-Bourbaki correspondence. *J. Math. Kyoto Univ.* 6 (1967), 383-391. (E. Enochs) 36 #1491

* (with Stoll, R. R.) Linear algebra. *Academic Press, New York-London*, 1968. x + 326 *pp.* (Editors) 36 #5149

Endomorphisms of the quasi-injective hull of a module. *Canad. Math. Bull.* 13 (1970), 149-150. (C. J. Penning) 41 #5413

Rings with nonzero singular ideals. *J. Math. Kyoto Univ.* 10 (1970), 419-431. (Y. Utumi) 43 #6248

Wong, Eugene

A linear search problem. *SIAM Rev.* 6 (1964), 168-174. (M. L. Balinski) 29 #6938

(with Zakai, Moshe) On the convergence of ordinary integrals to stochastic integrals. *Ann. Math. Statist.* 36 (1965), 1560-1564. (T. Watanabe) 33 #3345

(with Zakai, Moshe) On the relation between ordinary and stochastic differential equations. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 213-229. (G. Maruyama) 32 #505

(with Eisenberg, E.) Iterative synthesis of threshold functions. *J. Math. Anal. Appl.* 11 (1965), 226-235. (S. W. Golomb) 32 #2279

(with Zakai, Moshe) The oscillation of stochastic integrals. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 103-112 (1965). (Simeon M. Berman) 32 #3112

Some results concerning the zero-crossings of Gaussian noise. *SIAM J. Appl. Math.* 14 (1966), 1246-1254. (H. P. McKean, Jr.) 34 #6875

Two-dimensional random fields and representation of images. *SIAM J. Appl. Math.* 16 (1968), 756-770. (H. P. McKean, Jr.) 38 #2833

Homogeneous Gauss-Markov random fields. *Ann. Math. Statist.* 40 (1969), 1625-1634. (E. B. Dynkin) 41 #7753

(with Zakai, M.) Riemann-Stieltjes approximations of stochastic integrals. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 87-97. (D. W. Stroock) 39 #7671

The distribution of intervals between zeros for a stationary Gaussian process. *SIAM J. Appl. Math.* 18 (1970), 67-73. (L. A. Shepp) 41 #1112 ong, H. Ship-fah

The topological degree of A-proper maps. *Canad. J. Math.* 23 (1971), 403-412. (A. T.-M. Lau) 44 #5843

ong, Jack

On a condition for completeness. *J. Mathematical Phys.* 10 (1969), 1438-1440. (D. Babbitt) 40 #6290

(with Garrison, John C.; Morrison, Harry L.) Galilean relativity, locality, and quantum hydrodynamics. *J. Mathematical Phys.* 11 (1970), 630-634. (H. S. Green) 43 #1574

(with Garrison, John C.) Canonically conjugate pairs, uncertainty relations, and phase operators. *J. Mathematical Phys.* 11 (1970), 2242-2249. (H. Araki) 42 #1435

ong, James C. S.

Topologically stationary locally compact groups and amenability. *Trans. Amer. Math. Soc.* 144 (1969), 351-363. (L. N. Argabright) 40 #2781

Topological invariant means on locally compact groups and fixed points. *Proc. Amer. Math. Soc.* 27 (1971), 572-578. (B. Schreiber) 42 #7835

Invariant means on locally compact semigroups. *Proc. Amer. Math. Soc.* 31 (1972), 39-45. (L. N. Argabright) 44 #6896

ong, James S. W.

Remarks on a result of Gram determinants and generalized Schwartz inequality. *Matrix Tensor Quart.* 14 (1963/64), 77-80. (C. F. Moppert) 31 #5071

A note on boundedness theorems of certain second order differential equations. *SIAM Rev.* 6 (1964), 175-176. (F. Brauer) 30 #308

Some remarks on transformations in metric spaces. *Canad. Math. Bull.* 8 (1965), 659-666. (A. Haimovici) 32 #8328

Remarks on the uniqueness theorem of solutions of the Darboux problem. *Canad. Math. Bull.* 8 (1965), 791-796. (F. Brauer) 33 #1598

(with Willett, D.) On the discrete analogues of some generalizations of Gronwall's inequality. *Monatsh. Math.* 69 (1965), 362-367. (T. E. Hull) 32 #2644

(with Burton, T. A.) Some properties of solutions of $u''(t) + a(t)f(u)g(u') = 0$. II. *Monatsh. Math.* 69 (1965), 368-374. (W. R. Utz) 32 #4340

On the convergence of successive approximations in the Darboux problem. *Ann. Polon. Math.* 17 (1966), 329-336. (W. A. J. Luxemburg) 32 #6016

Generalizations of the converse of the contraction mapping principle. *Canad. J. Math.* 18 (1966), 1095-1104. (M. Edelstein) 34 #793

(with Mehra, K. L.) Some inequalities related to the Wald-Wolfowitz-Noether condition. *Canad. Math. Bull.* 9 (1966), 161-169. (W. Hoeffding) 33 #6779

On solutions of certain Riccati differential equations. *Math. Mag.* 39 (1966), 141-143. (G. Biriuk) 33 #5978

(with Meir, A.; Willett, D.) A stability condition for $y'' + p(x)y = 0$. *Michigan Math. J.* 13 (1966), 169-170. (C. S. Coleman) 32 #7885

On a characterization of Fourier transforms. *Monatsh. Math.* 70 (1966), 74-80. (R. R. Goldberg) 33 #510

Remarks on metric spaces. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 70-73. (J. Kister) 34 #8379

Remarks on global asymptotic stability of certain quasi-linear differential equations. *Proc. Amer. Math. Soc.* 17 (1966), 815-818. (H. Hochstadt) 33 #1550

Some properties of solutions of $u''(t) + a(t)f(u)g(u') = 0$. III. *SIAM J. Appl. Math.* 14 (1966), 209-214. (W. R. Utz) 34 #3020

On two theorems of Waltman. *SIAM J. Appl. Math.* 14 (1966), 724-728. (P. Waltman) 34 #6228

(with Willett, D. W.) The boundedness of solutions of the equation $\ddot{x} + f(x, \dot{x}) + g(x) = 0$. *SIAM J. Appl. Math.* 14 (1966), 1084-1098. (T. L. Sherman) 34 #7901

Common fixed points of commuting monotone mappings. *Canad. J. Math.* 19 (1967), 617-620. (L. E. Ward, Jr.) 35 #1513

A discrete analogue of Opial's inequality. *Canad. Math. Bull.* 10 (1967), 115-118. (A. E. Danese) 35 #3022

Remarks on a theorem of A. Wintner. *Enseignement Math.* (2) 13 (1967), 103-106. (Thomas G. Hallam) 36 #6695

Boundedness theorems for solutions of $u''(t) + a(t)f(u)g(u') = 0$. IV. *Enseignement Math.* (2) 13 (1967), 157-165 (1968). (P. Waltman) 38 #2378

On the global asymptotic stability of $(p(t)x')' + q(t)x^{2n-1} = 0$. *J. Inst. Math. Appl.* 3 (1967), 403-405. (R. P. de Figueiredo) 39 #7231

Explicit bounds for solutions of certain second order nonlinear differential equations. *J. Math. Anal. Appl.* 17 (1967), 339-342. (H. C. Howard) 34 #6214

(with Boyd, D. W.) An extension of Opial's inequality. *J. Math. Anal. Appl.* 19 (1967), 100-102. (J. V. Ryff) 35 #3021

(with Meir, A.; Willett, D.) On the asymptotic behavior of the solutions of $x'' + a(t)x = 0$. *Michigan Math. J.* 14 (1967), 47-52. (G. Sansone) 35 #463

Boundedness theorems for certain general second order non-linear differential equations. *Monatsh. Math.* 71 (1967), 81-86. (K. R. Meyer) 34 #4606

(with Willett, D.) Some boundedness and unboundedness results for the equation $x'' + a(t)x^{2n - 1} = 0$. *Monatsh. Math.* 71 (1967), 461-465. (W. R. Utz) 37 #509

(with Ching, Wai-mee) Multipliers and H^* algebras. *Pacific J. Math.* 22 (1967), 387-395. (P. Civin) 35 #5949

On an integral inequality of Gronwall. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1519-1522. (C. E. Langenhop) 37 #1706

Some stability conditions for $x'' + a(t)x^{2n - 1} = 0$. *SIAM J. Appl. Math.* 15 (1967), 889-892. (D. Willett) 36 #4094

Second order linear oscillation with integrable coefficients. *Bull. Amer. Math. Soc.* 74 (1968), 909-911. (P. Waltman) 38 #1333

(with Boyd, D. W.) Another proof of the contraction mapping principle. *Canad. Math. Bull.* 11 (1968), 605-606. (M. Edelstein) 38 #5202

On second order nonlinear oscillation. *Funkcial. Ekvac.* 11 (1968), 207-234 (1969). (P. Waltman) 39 #7221

Two extensions of the Banach contraction mapping principle. *J. Math. Anal. Appl.* 22 (1968); 438-443. (L. P. Belluce) 37 #4682 (E)

(with Willett, D.) Some properties of the solutions of $[p(t)x']' + q(t)f(x) = 0$. *J. Math. Anal. Appl.* 23 (1968), 15-24. (J. W. Heidel) 37 #1707

(with Muldowney, J. S.) Bounds for solutions of nonlinear integrodifferential equations. *J. Math. Anal. Appl.* 23 (1968), 487-499. (R. K. Miller) 38 #6327

(with Macki, Jack W.) Oscillation of solutions to second-order nonlinear differential equations. *Pacific J. Math.* 24 (1968), 111-117. (N. P. Bhatia) 37 #507

A uniqueness theorem for certain two-point boundary value problems. *Proc. Amer. Math. Soc.* 19 (1968), 249-250. (G. Sansone) 36 #4063

(with Kayande, A. A.) Finite time stability and comparison principles. *Proc. Cambridge Philos. Soc.* 64 (1968), 749-756. (B. Porter) 37 #1708

A note on second order nonlinear oscillation. *SIAM Rev.* 10 (1968), 88-91. (P. Waltman) 37 #3109

(with Coffman, C. V.) Second order nonlinear oscillations. *Bull. Amer. Math. Soc.* 75 (1969), 1379-1382. (R. A. Struble) 40 #449

Remarks on the asymptotic behaviour of perturbed linear systems. *Glasgow Math. J.* 10 (1969), 116-120. (R. E. O'Malley, Jr.) 40 #4545 (E)

Remarks on stability conditions for the differential equation $x'' + a(t)f(x) = 0$. *J. Austral. Math. Soc.* 9 (1969), 496-502. (H. K. Wilson) 39 #3111

(with Brauer, Fred) On the asymptotic behavior of perturbed linear systems. *J. Differential Equations* 6 (1969), 142-153. (H. Hochstadt) 39 #570

(with Brauer, Fred) On the asymptotic relationships between solutions of two systems of ordinary differential equations. *J. Differential Equations* 6 (1969), 527-543. (N. Onuchic) 40 #5982

On a limit point criterion of Weyl. *J. London Math. Soc.* (2) 1 (1969), 35-36. (J. W. Heidel) 39 #5863

(with Miller, R. K.; Nohel, J. A.) A stability theorem for nonlinear mixed integral equations. *J. Math. Anal. Appl.* 25 (1969), 446-449. (D. H. Hyers) 38 #2556

(with Miller, R. K.; Nohel, J. A.) Perturbations of Volterra integral equations. *J. Math. Anal. Appl.* 25 (1969), 676-691. (P. M. Anselone) 39 #1920

(See also Bellman, R., 38 #2643)

(with Nashed, M. Z.) Some variants of a fixed point theorem of Krasnoselskii and applications to nonlinear integral equations. *J. Math. Mech.* 18 (1969), 767-777. (D. R. Arterburn) 38 #6416

(with Macki, J. W.) Oscillation theorems for linear second order ordinary differential equations. *Proc. Amer. Math. Soc.* 20 (1969), 67-72. (H. C. Howard) 38 #3513

(with Boyd, D. W.) On nonlinear contractions. *Proc. Amer. Math. Soc.* 20 (1969), 458-464. (B. Margolis) 39 #916

Some remarks on Hermitian and anti-Hermitian properties of Green's matrices. *SIAM J. Appl. Math.* 17 (1969), 615-623. (R. E. Gaines) 41 #7196

Oscillation and nonoscillation of solutions of second order linear differential equations with integrable coefficients. *Trans. Amer. Math. Soc.* 144 (1969), 197-215. (P. Waltman) 40 #4536

A remark on a theorem of Lyapunov. *Canad. Math. Bull.* 13 (1970), 141-143. (T. A. Burton) 43 #645

Corrigenda: "Remarks on the asymptotic behaviour of perturbed linear systems". *Glasgow Math. J.* 11 (1970), 84. (R. E. O'Malley, Jr.) 41 #2141

(with Coffman, C. V.) On a second order nonlinear oscillation problem. *Trans. Amer. Math. Soc.* 147 (1970), 357-366. (V. Staikos) 41 #2123

On $\mathscr{L}_2$-solutions of linear ordinary differential equations. *Duke Math. J.* 38 (1971), 93-97. (H. Hochstadt) 42 #7973

(with Waltman, Paul) Two point boundary value problems for nonlinear functional differential equations. *Trans. Amer. Math. Soc.* 164 (1972), 39-54. (T. Yoshizawa) 44 #4333

Wong, K. W.

A method of solving the many-body K-matrix. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 591-598. (M. Dresden) 32 #7092

A method of solving the many-body K-matrix with a Yukawa interaction potential. *Nuovo Comento* (10) 34 (1964), 816-818. (M. Dresden) 32 #7093

Wong, M. K. F.

On the Mössbauer effect. *Proc. Phys. Soc.* 85 (1965), 723-734. (M. Hamermesh) 31 #3124

Branching laws, inner multiplicities, and decomposition of classical groups. *J. Mathematical Phys.* 11 (1970), 1489-1495. (N. Mukunda) 41 #7956

Unit adjoint tensor operators in SO(n). *J. Mathematical Phys.* 12 (1971), 1530-1535. (J.-P. Antoine) 44 #6243

Wong, Pak-ken

(with Tomiuk, B. J.) The Arens product and duality in B^*-algebras. *Proc. Amer. Math. Soc.* 25 (1970), 529-535. (J. D. Stein, Jr.) 41 #4256

Continuous complementors on B^*-algebras. *Pacific J. Math.* 33 (1970), 255-260. (B. Yood) 44 #3132

The Arens product and duality in B^*-algebras. II. *Proc. Amer. Math. Soc.* 27 (1971), 535-538. (J. D. Stein, Jr.) 43 #933

On the Arens product and annihilator algebras. *Proc. Amer. Math. Soc.* 30 (1971), 79-83. (R. H. Cox) 43 #6724

Wong, Peter J.

(with Larson, Robert E.) Optimization of tree-structured natural-gas transmission networks. *J. Math. Anal. Appl.* 24 (1968), 613-626. (W. H. Kim) 38 #4212

Wong, Pui-kei

Solutions of a nonlinear differential equation near singular points. *J. Math. Anal. Appl.* 15 (1966), 264-268. (W. Strodt) 35 #1852

On a class of nonlinear fourth order differential equations. *Ann. Mat. Pura Appl.* (4) 81 (1969), 331-346. (T. L. Sherman) 41 #5721

Bounds for solutions to a class of nonlinear second-order differential equations. *J. Differential Equations* 7 (1970), 139-146. (D. Willett) 40 #7540

A criterion for disfocality. *Proc. Amer. Math. Soc.* 30 (1971), 112-114. (R. Gérard) 43 #5087

Wirtinger type inequalities and elliptic differential inequalities. *Tôhoku Math. J.* (2) 23 (1971), 117-127. (K. Kreith) 44 #605

Wong, R.

(with Wyman, M.) The asymptotic behaviour of $u(z, \beta, \alpha)$. *Canad. J. Math.* 21 (1969), 1013-1023. (L. Berg) 39 #5835

On a Laplace integral involving logarithms. *SIAM J. Math. Anal.* 1 (1970), 360-364. (H. A. Lauwerier) 43 #7842

Wong, Raymond Y. T.

On homeomorphisms of certain infinite dimensional spaces. *Trans. Amer. Math. Soc.* 128 (1967), 148-154. (Ky Fan) 35 #4892

A wild Cantor set in the Hilbert cube. *Pacific J. Math.* 24 (1968), 189-193. (H. W. Lambert) 36 #4539

Extending homeomorphisms by means of collarings. *Proc. Amer. Math. Soc.* 19 (1968), 1443-1447. (G. S. Ungar) 38 #2747

Some remarks on hyperspaces. *Proc. Amer. Math. Soc.* 21 (1969), 600-602. (J. E. Keesling) 39 #2119

On topological equivalence of $\aleph_0$-dimensional linear spaces. *Trans. Amer. Math. Soc.* 137 (1969), 551-560. (H. H. Schaefer) 38 #4951

On affine maps and fixed points. *J. Math. Anal. Appl.* 29 (1970), 158-162. (J. B. Wilker) 40 #3279

Lipschitz conjugation and extension of homeomorphisms in l_p-spaces. *J. Math. Anal. Appl.* 32 (1970), 573-583. (K. Sundaresan) 42 #8270

Extending homeomorphisms in compactification of Fréchet spaces. *Proc. Amer. Math. Soc.* 25 (1970), 548-550. (W. J. Pervin) 42 #1071

A note on stable homeomorphisms of infinite-dimensional manifolds. *Proc. Amer. Math. Soc.* 28 (1971), 271-272. (D. E. Sanderson) 42 #6877

Stationary isotopies of infinite-dimensional spaces. *Trans. Amer. Math. Soc.* 156 (1971), 131-136. (R. F. Dickman, Jr.) 43 #1230

Wong, S. K.

(with Janko, Zvonimir) A characterization of the Highman-Sims simple group. *J. Algebra* 13 (1969), 517-534. (D. Gorenstein) 41 #5486

On a new finite non-abelian simple group of Janko. *Bull. Austral. Math. Soc.* 1 (1969), 59-79. (A. Mann) 42 #4629

(with Parrott, David) On the Higman-Sims simple group of order 44,352,000. *Pacific J. Math.* 32 (1970), 501-516. (D. A. Robinson) 41 #1867

Wong, Seok Pin

Asymptotically optimum properties of certain sequential test. *Ann. Math. Statist.* 39 (1968), 1244-1263. (E. J. Dudewicz) 37 #4918

Wong, Warren J.

On linear p-groups. *J. Austral. Math. Soc.* 4 (1964), 174-178. (D. E. Littlewood) 29 #2301

A characterization of the Mathieu group M_{12}. *Math. Z.* 84 (1964), 378-388. (W. Moser) 29 #4794

On finite groups with semi-dihedral Sylow 2-subgroups. *J. Algebra* 4 (1966), 52-63. (D. L. Barnett) 35 #1665

Exceptional character theory and the theory of blocks. *Mat Z.* 91 (1966), 363-379. (E. C. Dade) 32 #7649

Finite groups with a self-centralizing subgroup of order 4. *J. Austral. Math. Soc.* 7 (1967), 570-576. (P. Fong) 36 #3873

Determination of a class of primitive permutation groups. *Math. Z.* 99 (1967), 235-246. (O. H. Kegel) 35 #5502

Twisted wreath products and Sylow 2-subgroups of classical simple groups. *Math. Z.* 97 (1967), 406-424. (P. Fong) 35 #2970

A cohomological characterization of finite nilpotent groups. *Proc. Amer. Math. Soc.* 19 (1968), 689-691. (P. Fong) 37 #5302

A characterization of the finite simple groups $\mathrm{PSp}_6(q)$, q odd. *J. Algebra* 12 (1969), 494-524. (D. Gorenstein) 39 #286

Recent work on finite simple groups. *Math. Chronicle* 1 (1969/70), *part* 1, 5-12. (Bhama Srinivasan) 42 #6102

(with Fong, Paul) A characterization of the finite simple groups PSp(4, q), $G_2(q)$, $D_4{}^2(q)$. I. *Nagoya Math. J.* 36 (1969), 143-184. (D. Gorenstein) 41 #326

A characterization of the finite projective symplectic groups $\mathrm{PSp}_4(q)$. *Trans. Amer. Math. Soc.* 139 (1969), 1-35. (A. Mann) 40 #5724

Characterization of the finite simple groups $\mathrm{PSp}_{2n}(q)$. *J. Algebra* 14 (1970), 531-551. (Graham Higman) 41 #1868

(with Brauer, Richard) Some properties of finite groups wit wreathed Sylow 2-subgroup. *J. Algebra* 19 (1971), 263-273. (J. L. Alperin) 44 #302

Wong, Y. K.

Generalizations of Ostrowski's inequality for matrices with dominant principal diagonal. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio,* 1965*), pp.* 339-353. *Academic Press, New York,* 1967. (N. J. Pullman) 36 #6433

Wong, Yau-chuen

On the boundedness and stability of solutions of differential difference equations with lag. *Amer. Math. Monthly* 73 (1966), 367-370. (K. L. Cooke) 33 #4424

Local Dedekind-completeness and bounded Dedekind-completeness in topological Riesz spaces. *J. London Math. Soc.* (2) 1 (1969), 207-212. (D. Strauss) 43 #2468

Reflexivity of locally convex Riesz spaces. *J. London Math. Soc.* (2) 1 (1969), 725-732. (H. H. Schaefer) 40 #7775

Order-infrabarrelled Riesz spaces. *Math. Ann.* 183 (1969), 17-32. (I. Namioka) 40 #6232

Locally o-convex Riesz spaces. *Proc. London Math. Soc.* (3) 19 (1969), 289-309. (T. L. Hicks) 40 #698

A short proof of Schaefer's theorem. *Math. Ann.* 184 (1970), 155-156. (H. H. Schaefer) 41 #790

The order-bound topology on Riesz spaces. *Proc. Cambridge Philos. Soc.* 67 (1970), 587-593. (I. Namioka) 41 #791

Wong, Yim-ming

A theorem on points of discontinuity of functions. *J. London Math. Soc.* 40 (1965), 324-325. (S. Marcus) 30 #4867

Some remarks on invertible spaces. *Amer. Math. Monthly* 73 (1966), 835-841. (C. E. Burgess) 34 #3519

Extension theorem and its application to the Frenet formulas of curves. *Yokohama Math. J.* 17 (1969), 37-52. (H. W. Guggenheimer) 40 #3444

Lattice-invariant properties of topological spaces. *Proc. Amer. Math. Soc.* 26 (1970), 206-208. (K. N. Sigmon) 41 #6162

Wong, Yuen-fat

Homotopy types of differentiable manifolds. *Bol. Soc. Mat. Mexicana* (2) 10 (1965), 65-72. (N. H. Kuiper) 36 #902

A theorem on homotopically equivalent $(2k + 1)$-manifolds. *Proc. Amer. Math. Soc.* 16 (1965), 1022-1025. (G. Hirsch) 33 #1854

Some homotopy equivalent manifolds. *Bol. Soc. Mat. Mexicana* (2) 13 (1968), 18-20. (K. Aoki) 41 #4556

Wong, Yung-chow

Two dimensional linear connexions with zero torsion and recurrent curvature. *Monatsh. Math.* 68 (1964), 175-184. (K. Yano) 30 #4221

Existence of linear connections with respect to which given tensor fields are parallel or recurrent. *Nagoya Math. J.* 24 (1964), 67-108. (A. Goetz) 30 #4222

(with Au-yeung, Yik-hoi) An elementary and simple proof of the connectedness of the classical groups. *Amer. Math. Monthly* 74 (1967), 964-966. (J. G. Horne) 36 #5261

On H. S. Ruse's theorems concerning parallel fields concerning parallel fields of planes in a Riemannian space with indefinite metric. *Proc. Amer. Math. Soc.* 18 (1967), 892-897. (A. G. Walker) 35 #6099

Differential geometry of Grassmann manifolds. *Proc. Nat. Acad. Sci. U.S.A.* 57 (1967), 589-594. (K. Nomizu) 35 #7266

(with Lai, Hon-fei) A critical examination of the theory of curves in three dimensional differential geometry. *Tôhoku Math. J.* (2) 19 (1967), 1-31. (D. Laugwitz) 35 #4825

Some extensions of the Douglas-Neumann theorem for concentric polygons. *Amer. Math. Monthly* 75 (1968), 470-482. (H. Busemann) 37 #5766

Conjugate loci in Grassmann manifolds. *Bull. Amer. Math. Soc.* 74 (1968), 240-245. (K. Nomizu) 36 #3285

Sectional curvatures of Grassmann manifolds. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 75-79. (R. L. Bishop) 37 #4747

Euclidean n-planes in pseudo-Euclidean spaces and differential geometry of Cartan domains. *Bull. Amer. Math. Soc.* 75 (1969), 409-414. (S. Murakami) 40 #4882

A class of Schubert varieties. *J. Differential Geometry* 4 (1970), 37-51. (R. L. Bishop) 41 #9297

(with Young, Samuel S. H.) On the lengths and the numbers of congruence classes of closed geodesics in Grassman manifolds. *Tôhoku Math. J.* (2) 22 (1970), 604-612. (R. L. Bishop) 43 #6944

Wonham, W. Murray

Some applications of stochastic differential equations to optimal nonlinear filtering. *J. Soc. Indust. Appl. Math. Ser. A Control* 2 (1964), 347-369 (1965). (S. Ikehara) 32 #3932

Liapunov criteria for weak stochastic stability. *J. Differential Equations* 2 (1966), 195-207. (M. Zakai) 33 #2906

A Liapunov method for the estimation of statistical averages. *J. Differential Equations* 2 (1966), 365-377. (F. Kozin) 34 #6257 (E)

(with Lefschetz, S.; Meyer, K. R.) A correction to a propagating error in the Lurie problem. *J. Differential Equations* 3 (1967), 449. (Editors) 35 #2651

Optimal stationary control of a linear system with state-dependent noise. *SIAM J. Control* 5 (1967), 486-500. (D. S. Adorno) 36 #2421

Optimal stochastic control. *Stochastic Problems in Control (Joint Automatic Control Conference, Univ. Michigan, Ann Arbor, Mich., 1968), pp.* 107-120. *The American Society of Mechanical Engineers, New York,* 1968. (E. Parzen) 38 #5510

(with Cashman, W. F.) A computational approach to optimal control of stochastic saturating systems. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich., 1968), pp.* 13-33. *Inst. Electr. Electron. Engineers, New York,* 1968. (Editors) 40 #1012

(See also Heymann, Michael, 42 #8960)

On the separation theorem of stochastic control. *SIAM J. Control* 6 (1968), 312-326. (From the author's introduction) 38 #5509

On a matrix Riccati equation of stochastic control. *SIAM J. Control* 6 (1968), 681-697. (G. M. Ewing) 39 #518 (E)

Optimal stochastic control. (French, German and Russian summaries) *Automatica--J. IFAC* (1969), 113-118. (Author's summary) 39 #6656

(with Cashman, W. F.) A computational approach to optimal control of stochastic saturating systems. *Internat. J. Control* (1) 10 (1969), 77-98. (M. Zakai) 39 #7989

Erratum: "On a matrix Riccati equation of stochastic control". *SIAM J. Control* 7 (1969), 365. (Editors) 40 #2414

Random differential equations in control theory. *Probabilistic Methods in Applied Mathematics, Vol.* 2, *pp.* 131-212. *Academic Press, New York,* 1970. (C. P. Tsokos) 41 #6345

Dynamic observers-geometric theory. *IEEE Trans. Automatic Control* AC-15 (1970), 258-259. (H. S. Witsenhausen) 43 #3019

(with Morse, A. S.) Triangular decoupling of linear multivariable systems. *IEEE Trans. Automatic Control* AC-15 (1970), 447-449. (H. S. Witsenhausen) 43 #8407

(with Morse, A. S.) Decoupling and pole assignment in linear multivariable systems: A geometric approach. *SIAM J. Control* 8 (1970), 1-18. (M. Heymann) 42 #5659

(with Morse, A. S.) Decoupling and pole assignment by dynamic compensation. *SIAM J. Control* 8 (1970), 317-337. (Leonard Weiss) 42 #7315

Wonn, E.

(with Körner, S.) Ein grafisches Approximationsverfahren krummliniger Funktionen. *WZE Wiss. Z. Elektrotech.* 10 (1967/68), 173-192. (E. Otto) 44 #7791

Woo, Ching-hung

Large symmetry breaking and mass relations. *Phys. Rev.* (2) 135 (1964), B1352-B1355. (J. Franklin) 30 #1792

(with Dragt, Alex J.) Some simple consequences of SU(4) symmetry. *Phys. Rev.* (2) 139 (1965), B945-B946. 32 #5206

Quantum effects on the accuracy of momentum measurements. *Phys. Rev.* (2) 139 (1965), B1103-B1106. (H. Araki) 32 #3488

Woo, J. Yam Ting

An elementary proof of the Lebesgue decomposition theorem. *Amer. Math. Monthly* 78 (1971), 783. (W. D. L. Appling) 44 #5424

Woo, Jung-soo

(with Lee, In-suk) A note on atomic measure and singularity. *Kyungpook Math. J.* 10 (1970), 85-88. (W. D. L. Appling) 44 #393

Woo, Lin

Remark on a paper by F. W. Sinden. *J. Math. Anal. Appl.* 9 (1964), 162-163. (E. M. L. Beale) 29 #5644

An algorighm for straight-line representation of simple planar graphs. *J. Franklin Inst.* 287 (1969), 197-208. (Author's summary) 39 #4045

Woo, N.

(with Long, C. T.) On bases for the set of integers. *Duke Math. J.* 38 (1971), 583-590. (N. G. de Bruijn) 44 #2692

Woo, Peter Y.

* (with Beem, John K.) Doubly timelike surfaces. Memoirs of the American Mathematical Society, No. 92. *American Mathematical Society, Providence, R. I.,* 1969. ii + 115 *pp.* (P. Scherk) 42 #1036

Wood, A. D.

Deficiency indices of some fourth order differential operators. *J. London Math. Soc.* (2) 3 (1971), 96-100. (A. G. Kartsatos) 43 #2568

Wood, Bruce

A generalized Euler summability transform. *Math. Z.* 105 (1968), 36-48. (K. Endl) 38 #4849

On a generalized Bernstein polynomial of Jakimovski and Leviatan. *Math. Z.* 106 (1968), 170-174. (E. B. Saff) 38 #330

Convolution of Sonnenschein methods. *J. Analyse Math.* 22 (1969), 319-331. (J. Clunie) 40 #6120

Series to sequence and series to series transformations in Frechet spaces. *Math. Ann.* 184 (1969/70), 224-232. (M. S. Ramanujan) 41 #2256

Generalized Szász operators for the approximation in the complex domain. *SIAM J. Appl. Math.* 17 (1969), 790-801. (A. Baillette) 40 #7457

On l-l summability. *Proc. Amer. Math. Soc.* 25 (1970), 433-436. (D. L. Prullage) 41 #684

Convergence and almost convergence of certain sequences of positive linear operators. *Studia Math.* 34 (1970), 113-119. (J. P. King) 41 #4086

(with Eisenberg, S.) Approximating unbounded functions with linear operators generated by moment sequences. *Studia Math.* 35 (1970), 299-304. (J. W. Jerome) 42 #6468

Graphic behavior of positive linear operators. *SIAM J. Appl. Math.* 20 (1971), 329-335. (A. Lupaş) 44 #3059

Wood, Craig A.

Commutative rings for which each proper homomorphic image is a multiplication ring. *J. Sci. Hiroshima Univ. Ser. A - I Math.* 33 (1969), 85-94. (J. A. Johnson) 39 #6873

On general Z.P.I.-rings. *Pacific J. Math.* 30 (1969), 837-846. (D. Kirby) 40 #1380

(with O'Malley, Matthew) R-endomorphisms of $R[[X]]$. *J. Algebra* 15 (1970), 314-327. (R. Cohn) 41 #8407

Wood, D.

The normal form theorem—another proof. *Comput. J.* 12 (1969/70), 139-147. (Author's summary) 39 #5277

A note on top-down deterministic languages. *Nordisk Tidskr. Informationsbehandling (BIT)* 9 (1969), 387-399. (Author's summary) 41 #1455

Wood, D. C.

A technique for colouring a graph applicable to large scale timetabling problems. *Comput. J.* 12 (1969), 317-319. (Author's summary) 40 #6949

Wood, D. E.

(with Lawler, E. L.) Branch-and-bound methods: A survey. *Operations Res.* 14 (1966), 699-719. (From the authors' summary) 34 #2338

Wood, D. W.

(with Dalton, N. W.) Critical properties of the Heisenberg ferromagnet with higher neighbor interactions ($S = 1/2$). *Phys. Rev.* (2) 138 (1965), A779-A792. (G. A. Baker, Jr.) 32 #8944

(with Domb, C.) On high temperature expansions for the Heisenberg model. *Proc. Phys. Soc.* 86 (1965), 1-16. (N. L. Balazs) 32 #2136

Wood, Geoffrey V.

A generalization of the Peter-Weyl theorem. *Proc. Cambridge Philos. Soc.* 63 (1967), 937-945. (I. Glicksberg) 36 #704

S-rings on compact transformation groups. *Math. Z.* 106 (1968), 337-342. (J. G. Horne) 38 #4604

S-rings on compact groups. *Proc. London Math. Soc.* (3) 19 (1969), 481-492. (J. G. Horne) 39 #7028

A note on isomorphisms of group algebras. *Proc. Amer. Math. Soc.* 25 (1970), 771-775. (R. E. Edwards) 41 #4141

Wood, Herbert T.

(with Curtiss, C. F.) Quantum corrections to the transport cross sections. *J. Chem. Phys.* 41 (1964), 1167-1173. (Authors' summary) 29 #3210

Wood, James A.

A generalization of the Mikusinski operational calculus. *Proc. Amer. Math. Soc.* 19 (1968), 777-781. (Z. Ditzian) 37 #4616

Closed operators which commute with convolution. *J. Math. Anal. Appl.* 30 (1970), 495-502. (Y. Domar) 41 #7374

Wood, James S.

(See Progress in mathematics, 42 #2903b)

Wood, John W.

Foliations on 3-manifolds. *Ann. of Math.* (2) 89 (1969), 336-358. (J. W. Smith) 40 #2123

(with Bredon, Glen E.) Non-orientable surfaces in orientable 3-manifolds. *Invent. Math.* 7 (1969), 83-110. (G. Burde) 39 #7616

Foliations of codimension one. *Bull. Amer. Math. Soc.* 76 (1970), 1107-1111. (A. Aeppli) 41 #7713

Klein bottles in circle bundles. *Proc. Amer. Math. Soc.* 28 (1971), 607-608. (K. Aoki) 43 #4054

Wood, R.

Banach algebras and Bott periodicity. *Topology* 4 (1965/66), 371-389. (D. W. Anderson) 32 #3062

Polynomial maps from spheres to spheres. *Invent. Math.* 5 (1968), 163-168. (J. M. Boardman) 37 #3583

Wood, Roger C.

(with Krishnamoorthi, B.) Time-shared computer operations with both interarrival and service times exponential. *J. Assoc. Comput. Mach.* 13 (1966), 317-338. (F. G. Foster) 42 #8589

Wood, Van E.

(with Hanson, Ira C.; Glasser, M. L.; Fettis, Henry E.) Handbook of mathematical functions. Table errata. *Math. Comp.* 22 (1968), 472-473. (Editors) 73 #2399

(with Bradley, Lee C.; Aggarwal, H. R.; Ablow, C. M.; Glasser, M. L.) Table errata. *Math. Comp.* 22 (1968), 695-696. (Editors) 37 #2398

Efficient calculation of Clausen's integral. *Math. Comp.* 22 (1968), 883-884. 39 #1090

(with Blake, J. R.; Glasser, M. L.; Fettis, Henry E.; Hansen, Eldon R.; Patrick, Merrell L.) Table errata. *Math. Comp.* 22 (1968), 903-907. (Editors) 39 #481

Wood, William W.

Stability of viscous flow between rotating cylinders. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 313-314. (L. N. Tao) 29 #4351

Properties of inviscid, recirculating flows. *J. Fluid Mech.* 22 (1965), 337-346. (R. C. Ackerberg) 31 #6452

Linear equations with elements $(1/m)k(n/m) + \delta_{nm}$ and infinitely many variables. *Proc. Cambridge Philos. Soc.* 61 (1965), 781-794. (I. Fenyő) 33 #7728

Wood, Winifred L.

On an explicit numerical method for solving the biharmonic equation. *Numer. Math.* 11 (1968), 413-426. (D. M. Young, Jr.) 39 #5073

Woodall, D. R.

The $\lambda - \mu$ problem. *J. London Math. Soc.* (2) 1 (1969), 509-519. (P. Dembowski) 40 #1294

Square λ-linked designs. *Proc. London Math. Soc.* (3) 20 (1970), 669-687. (J. B. Kelly) 41 #8264

Thrackles and deadlock. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford, 1969), pp.* 335-347. *Academic Press, London,* 1971. (Author's summary) 43 #3154

Square λ-linked designs: A survey. *Combinatorial Mathematics and its Applications (Proc. Conf., Oxford, 1969), pp.* 349-355. *Academic Press, London,* 1971. (J. F. Lawless) 43 #6111

A market problem. *J. Combinatorial Theory Ser. B* 10 (1971), 275-287. (E. C. Milner) 44 #92

Woodall, S. R.

(with Nowinski, J. L.) Finite vibrations of a free rotating anisotropic membrane. *J. Acoust. Soc. Amer.* 36 (1964), 2113-2118. (W. E. Boyce) 31 #957

Woodbury, Max A.

(with Novick, Melvin R.) Maximizing the validity of a test battery as a function of relative test lengths for a fixed total testing time. *J. Mathematical Psychology* 5 (1968), 242-259. (Authors' summary) 37 #1032

Woodford, D. J.

Prediction of the length of the air core in vortices of weak circulation. (French summary) *Houille Blanche* 19 (1964), 889-899. (R. R. Long) 31 #6464

Woodhouse, David

Some finiteness properties of certain Baer-soluble groups. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 57-65. (B. Amberg) 36 #5227

Wooding, Robin A.

Mixing-layer flows in a saturated porous medium. *J. Fluid Mech.* 19 (1964), 103-112. (1 *plate*) (H. Brenner) 29 #3107

(with Philip, J. R.) Solution of the Poisson-Boltzmann equation about a dylindrical particle. *J. Chem. Phys.* 52 (1970), 953-959. (T. Arai) 42 #8837

Woodroofe, Michael B.

Statistical properties of the number of positive sums. *Ann. Math. Statist.* 37 (1966), 1295-1304. (I. R. Savage) 33 #6782

On the maximum deviation of the sample density. *Ann. Math. Statist.* 38 (1967), 475-481. (E. Parzen) 35 #2328

(with Van Ness, John W.) The maximum deviation of sample spectral densities. *Ann. Math. Statist.* 38 (1967), 1558-1569. (S. Csibi) 35 #7546

(with Starr, Norman) Remarks on a stopping time. *Proc. Nat. Acad. Sci. U.S.A.* 61 (1968), 1215-1218. (S. Orey) 39 #1053

On the weak convergence of stochastic processes without discontinuities of the second kind. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1968), 18-25. (J. R. Kinney) 39 #4917

(with Anderson, William N., Jr.; Kleindorfer, George B.; Kleindorfer, Paul R.) Consistent estimates of the parameters of a linear system. *Ann. Math. Statist.* 40 (1969), 2064-2075. (Richard A. Johnson) 40 #6710

(with Starr, Norman) Remarks on sequential point estimation. *Proc. Nat. Acad. Sci. U.S.A.* 63 (1969), 285-288. (S. Blumenthal) 42 #7001

(See Rosenblatt, M., 43 #4198)

(with Bell, C. B.; Avadhani, T. V.) Some nonparametric tests for stochastic processes. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.,* 1969*), pp.* 215-258. *Cambridge Univ. Press, London,* 1970. (G. E. Noether) 44 #1159

On choosing a delta-sequence. *Ann. Math. Statist.* 41 (1970), 1665-1671. (E. Parzen) 42 #5403

On the first time $|S_n| > cn^{(\overline{1/2})(1)}$. *Ann. Math. Statist.* 41 (1970), 2179-2183. (H. Teicher) 43 #2802

Woodrow, Peter

(with Paiewonsky, Bernard; Brunner, Walter; Halbert, Peter) Synthesis of optimal controllers using hybrid analog-digital computers. *Computing Methods in Optimization Problems (Proc. Conf., Univ. California, Los Angeles, Calif.,* 1964*), pp.* 285-303. *Academic Press, New York,* 1964. (J. P. LaSalle) 29 #6980

(with Paiewonsky, B.) Comment on minimum-time orbital rendezvous between neighboring elliptic orbits. *J. Optimization Theory Appl.* 7 (1971), 319-320. (Editors) 43 #7240a

Woodruff, Edythe P.

Concerning the condition that a disk in E^3/G be the image of a disk in E^3. *Proc. First Conf. on Monotone Mappings and Open Mappings (SUNY at Binghamton, Binghamton, N. Y.,* 1970*), pp.* 390-417. *State Univ. of New York at Binghamton, Binghamton, N. Y.,* 1971. (B. J. Ball) 43 #4010

Woodruff, Peter W.

Logic and truth value gaps. *Philosophical Problems in Logic. Some Recent Developments, pp.* 121-142. *Reidel, Dordrecht,* 1970. (J. Corcoran and J. Herring) 44 #6453

Woods, A. C.

(with Bambah, R. P.; Zassenhaus, Hans) Three proofs of Minkowski's second inequality in the geometry of numbers. *J. Austral. Math. Soc.* 5 (1965), 453-462. (J. W. S. Cassels) 32 #5602

The densest double lattice packing of four-spheres. *Mathematika* 12 (1965), 138-142. (E. S. Barnes) 33 #1289a

Lattice coverings of five space by spheres. *Mathematika* 12 (1965), 143-150. (E. S. Barnes) 33 #1289b

A generalisation of Minkowski's second inequality in the geometry of numbers. *J. Austral. Math. Soc.* 6 (1966), 148-152. (R. P. Bambah) 34 #1276

A note on dense subsets of lattices. *J. London Math. Soc.* 41 (1966), 742-744. (I. G. Amemiya) 34 #147

(with Bambah, R. P.) On the minimal density of maximal packings of the plane by convex bodies. *Acta Math. Acad. Sci. Hungar.* 19 (1968), 103-116. (F. Supnick) 36 #7025

(with Bambah, R. P.) On minimal density of plane coverings by circles. *Acta Math. Acad. Sci. Hungar* 19 (1968), 337-343. (H. Groemer) 38 #3771

(with Bambah, R. P.) Convex bodies with a covering property. *J. London Math. Soc.* 43 (1968), 53-56. (I. Niven) 37 #160

(with Bambah, R. P.) The covering constant for a cylinder. *Monatsh. Math.* 72 (1968), 107-117. (F. Supnick) 37 #6838

A characterization of ellipsoids. *Duke Math. J.* 36 (1969), 1-6. (Z. Moszner) 38 #6460

(with Bambah, R. P.) The thinnest double lattice covering of three-spheres. *Acta Arith.* 18 (1971), 321-336. (H. Groemer) 44 #6608

(with Bambah, R. P.) On plane coverings with convex domains. *Mathematika* 18 (1971), 91-97. (J. M. Wills) 44 #5862

Woods, B. A.

(with Spence, D. A.) A review of theoretical treatments of shock-tube attenuation. *J. Fluid Mech.* 19 (1964), 161-174. (H. M. Sternberg) 29 #4382

Woods, E. J.

(with Klauder, J. R.; McKenna, J.) Direct-product representations of the canonical commutation relations. *J. Mathematical Phys.* 7 (1966), 822-828. (J. C. T. Pool) 33 #7004

(with Araki, Huzihiro) Complete Boolean algebras of type I factors. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966), 157-242. (J. Feldman) 34 #3347

(with Araki, Huzihiro) Addenda: Complete Boolean algebras of type I factors. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966/67), 451-452. (Editors) 35 #748

(with Araki, Huzihiro) A classification of factors. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 51-130. (N. Suzuki) 39 #6087

Continuity properties of the representations of the canonical commutation relations. *Comm. Math. Phys.* 17 (1970), 1-20. (W. Güttinger) 42 #7188

Woods, L. C.

On the boundary conditions at an insulating wall for hydromagnetic waves in a cylindrical plasma. *J. Fluid Mech.* 18 (1964), 401-408. (W. K. R. Watson) 29 #4557

On the theory of growing cavities behind hydrofoils. *J. Fluid Mech.* 19 (1964), 124-136. (G. Birkhoff) 29 #836

Finite amplitude effects on hydromagnetic waves. *Phys. Fluids* 7 (1964), 1987-1995. (S. I. Pai) 31 #6500

On the theory of growing cavities behind hydrofoils. *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi, 1963), Vol. II, Fluid and Gas Mechanics, Math. Methods (Russian), pp. 454-468. Izdat. "Nauka", Moscow,* 1965. (D. G. Hurley) 32 #6789

On ionizing shock waves in a cylindrical plasma. *J. Fluid Mech.* 22 (1965), 689-699. (G. Deb Ray) 32 #3409

(with Buxton, G. H. L.) The theory of a cascade of cavitating hydrofoils. *Quart. J. Mech. Appl. Math.* 19 (1966), 387-402. (T. W. Kao) 34 #5372

Woods, R. Grant

Homeomorphic sets of remote points. *Canad. J. Math.* 23 (1971), 495-502. (J. Mack) 43 #6880

Some $\aleph_0$-bounded subsets of Stone-Čech compactifications. *Israel J. Math.* 9 (1971), 250-256. (C. W. Kohls) 43 #3997

A Boolean algebra of regular closed subsets of $\beta X - X$. *Trans. Amer. Math. Soc.* 154 (1971), 23-36. (O. Frink) 42 #5230

Woods, S. M.

On perfect group rings. *Proc. Amer. Math. Soc.* 27 (1971), 49-52. (S. K. Sehgal) 42 #6130

Woodward, David A.

Continuous transformations and stochastic differential equations. *Trans. Amer. Math. Soc.* 115 (1965), 76-82. (H. P. McKean, Jr.) 33 #6068

Woodward, P. M.

* Probability and information theory, with applications to radar. Second edition. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt,* 1964. x + 136 pp. (Editors) 31 #4637

Woodworth, George G.

(with Savage, I. Richard; Sobel, Milton) Fine structure of the ordering of probabilities of rank orders in the two sample case. *Ann. Math. Statist.* 37 (1966), 98-112. (C. H. Kraft) 32 #4791

(with Basu, A. P.) A note on nonparametric tests for scale. *Ann. Math. Statist.* 38 (1967), 274-277. (J. E. Walsh) 34 #6943

(with Rizvi, M. Haseeb; Sobel, Milton) Nonparametric ranking procedures for comparison with a control. *Ann. Math. Statist.* 39 (1968), 2075-2093. (P. R. Krishnaiah) 38 #5332

Large deviations and Bahadur efficiency of linear rank statistics. *Ann. Math. Statist.* 41 (1970), 251-283. (Z. Govindarajulu) 41 #9395

(with Rizvi, M. Haseeb) On selection procedures based on ranks: Counterexamples concerning least favorable configurations. *Ann. Math. Statist.* 41 (1970), 1942-1951. (E. J. Dudewicz) 43 #8181

Woolcock, W. S.

(with Rasche, G.) On invariant amplitudes for scattering processes. *Nuclear Phys.* 68 (1965), 582-590. (S. Ciulli) 32 #6971

Asymptotic behavior of Stieltjes transforms. I. *J. Mathematical Phys.* 8 (1967), 1270-1275. (E. J. Scott) 37 #4517

Asymptotic behavior of Stieltjes transforms. II. *J. Mathematical Phys.* 9 (1968), 1350-1356. (E. J. Scott) 38 #497

(with Rasche, G.) Boundary curves of the double spectral functions in the Mandelstam representation. *Helv. Phys. Acta* 43 (1970), 179-202. (A. O. Barut) 43 #4375

Woolfson, M. M.

A capture theory of the origin of the solar system. *Proc. Roy. Soc. Ser. A* 282 (1964), 485-507. (Editors) 31 #1098

Woollett, E. L.

Kinetic equation for a warm plasma. *Phys. Fluids* 9 (1966), 118-133. (R. S. B. Ong) 33 #6959

Woolley, R. G.

(with Atkins, P. W.) The interaction of molecular multipoles with the electromagnetic field in the canonical formulation of non-covariant quantum electrodynamics. *Proc. Roy. Soc. London Ser. A* 319 (1970), 549-563. (Authors' summary) 42 #5567

Wooyenaka, Yuki

On postulate-sets for Newman algebra and Boolean algebra. I, II. *Proc. Japan Acad.* 40 (1964), 76-81; *ibid.* 40 (1964), 82-87. (B. Brainerd) 29 #1163

Wordsworth, J.

(with Horlock, J. H.) The three-dimensional laminar boundary layer on a rotating helical blade. *J. Fluid Mech.* 23 (1965), 305-314. (Authors' summary) 32 #704

Workman, D. A.

(with Anderson, J. M.) Automorphisms and endomorphisms of finite abelian groups. *Tamkang J. Math.* 1 (1970), *no.* 1, 5-9. (L. Fuchs) 42 #368

Works, Chandler

(with Yourgrau, Wolfgang) Note on duality in propositional calculus. *Notre Dame J. Formal Logic* 9 (1968), 284-288. 39 #2602

Worley, R. T.

Minimum determinant of asymmetric quadratic forms. *J. Austral. Math. Soc.* 7 (1967), 177-190. (H. Gross) 35 #4161

Asymmetric minima of indefinite ternary quadratic forms. *J. Austral. Math. Soc.* 7 (1967), 191-238. (H. Gross) 35 #4162

On a result of Cassels. *J. Austral. Math. Soc.* 11 (1970), 919-194. (J. B. Kelly) 42 #3055

Worm, Dietmar

(with Richter, Wolfgang) Ein informationstheoretischer Zugang zum Null-Eins-Gesetz. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 251-260. (L. L. Campbell) 37 #4869

Worobjow, J. W. See Vorob′ev, Ju V.

Woronowicz, S. L.

(with Napiórkowski, K.) A theorem about v. Neumann algebras of quantum field theory. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 265-266. (H. Araki) 33 #8180

(with Deminański, M.) On closed spacelike hypersurfaces in Riemannian manifolds. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 355-356. (W. B. Houston, Jr.) 36 #5867

A generalization of a theorem by Wightman. *Comm. Math. Phys.* 9 (1968), 142-145. (H. Araki) 37 #6089

(with Napiórkowski, K.) A remark about superselection rules. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 579-580. (H. Araki) 40 #8387

The quantum problem of moments. I. *Rep. Mathematical Phys.* 1 (1970/71), *no.* 2, 135-145. (R. H. Herman) 44 #7887

The quantum problem of moments. II. *Rep. Mathematical Phys.* 1 (1970/71), *no.* 3, 175-183. (R. H. Herman) 44 #7888

(with Kopczyński, W.) A geometrical approach to the twistor formalism. *Rep. Mathematical Phys.* 2 (1971), *no.* 1, 35-51. (H. Rund) 43 #7188

(with Sadowski, P.) Total sets in quantum field theory. *Rep. Mathematical Phys.* 2 (1971), *no.* 2, 113-120. (H. Araki) 44 #3600

Woronowskaja, E. W. See Voronovskaja, E. V.

Woroszył, S.

(with Kaliski, S.) Flutter of a deformable rocket in supersonic flow according to the second asymptotic approximation. (Polish and Russian summaries) *Proc. Vibration Problems* 6 (1965), 49-81. (W. H. Dorrance) 31 #5424

Worrell, John M., Jr.

(with Wicke, H. H.) Characterizations of developable topological spaces. *Canad. J. Math.* 17 (1965), 820-830. (C. E. Burgess) 32 #427

Upper semicontinuous decompositions of developable spaces. *Proc. Amer. Math. Soc.* 16 (1965), 485-490. (C. E. Burgess) 31 #6207

A characterization of metacompact spaces. *Portugal. Math.* 25 (1966), 171-174. 38 #675

The closed continuous images of metacompact topological spaces. *Portugal. Math.* 25 (1966), 175-179. (C. R. Borges) 38 #676

(with Wicke, H. H.) Open continuous mappings of spaces having bases of countable order. *Duke Math. J.* 34 (1967), 255-271. (E. Michael) 35 #979 (E)

(with Wicke, H. H.) Errata to: "Open continuous mappings of spaces having bases of countable order". *Duke Math. H.* 34 (1967), 813-814. (Editors) 35 #7309

On collections of domains inscribed in a covering of a space in the sense of Alexandroff and Urysohn. *Portugal. Math.* 26 (1967), 405-420. (R. W. Bagley) 41 #4480

Upper semicontinuous decompositions of spaces having bases of countable order. *Portugal. Math.* 26 (1967), 493-504. (Anne K. Steiner) 41 #2626

On continuous mappings of metacompact Čech complete spaces. *Pacific J. Math.* 30 (1969), 555-562. (C. R. Borges) 40 #1996

(with Wicke, H. H.) Extension of a result of Dieudonné. *Proc. Amer. Math. Soc.* 25 (1970), 634-637. (J. P. Ferrier) 41 #9197

Worsig, E.

(with Berten, B.) Anwendung der dynamischen Optimierung auf ein Problem der quadratischen Optimierung. *Math. und Wirtschaft* 7 (1970), 197-203. (P. L. Hammer) 43 #4468

Worth, R. E.

Boundaries of semilinear spaces and semialgebras. *Trans. Amer. Math. Soc.* 148 (1970), 99-119. (J. D. Stein, Jr.) 42 #8284

Wortis, Michael

Low-temperature behavior of the Heisenberg ferromagnet. *Phys. Rev.* (2) 138 (1965), A1126-A1145. (Jacques des Cloizeaux) 32 #8955

Wortman, D. E.

(with Alexanian, Moorad) New series expansion in statistical mechanics. *Phys. Rev.* (2) 143 (1966), 96-103. (M. E. Fisher) 33 #5316

Wos, Lawrence Thomas

(with Robinson, George A.; Carson, Daniel F.) Efficiency and completeness of the set of support strategy in theorem proving. *J. Assoc. Comput. Mach.* 12 (1965), 536-541. (J. Dénes) 33 #3488

(with Robinson, George) Paramodulation and theorem-proving in first-order theories with equality. *Machine Intelligence*, 4, *pp.* 135-150. *American Elsevier, New York*, 1969. (A. S. Troelstra) 43 #1473

(with Robinson, George) Axiom systems in automatic theorem proving. *Symposium on Automatic Demonstration (Versailles, 1968), pp.* 215-236. *Lecture Notes in Mathematics, Vol.* 125. *Springer, Berlin*, 1970. (Authors' summary) 42 #2889

(with Robinson, George) Paramodulation and set of support. *Symposium on Automatic Demonstration (Versailles, 1968), pp.* 276-310. *Lecture Notes in Mathematics, Vol.* 125. *Springer, Berlin*, 1970. (D. W. Loveland) 42 #7512

Woschni, Eugen G.

Investigations on systems with time variable parameters (rheolinear oscillators) including their stability with the aid of energy and phase studies. (Russian and Polish summaries) *Nonlinear Vibration Problems*, 5, *Second Conf. on Nonlinear Vibrations, Warsaw*, 1962, *pp.* 378-386. *Państwowe Wydawnictwo Naukowe, Warsaw*, 1964. (K. Yamada) 32 #3330

Erhöhung des Nachrichtenflusses in verrauschten Kanälen in informationstheoretischer Sicht. *Wiss. Z. Techn. Univ. Dresden* 13 (1964), 1400-1406. 31 #6695

Wouk, Arthur

Integral representation of the logarithm of matrices and operators. *J. Math. Anal. Appl.* 11 (1965), 131-138. (W. J. Coles) 32 #1393

A note on square roots of positive operators. *SIAM Rev.* 8 (1966), 100-102. (A. Brown) 32 #6232

Statistical properties of a certain periodic binary process. *Technometrics* 8 (1966), 247-258. (Author's summary) 34 #3745

An extension of the caratheodory-Kalman variational method. *J. Optimization Theory Appl.* 3 (1969), 2-33. (L. D. Berkovitz) 39 #4728 (E)

Errata corrige: "An extension of the Caratheodory-Kalman variational method". *J. Optimization Theory Appl.* 4 (1969), 352. (Editors) 40 #4841

Woyczyński, Wojbor A.

Free vibrations of a certain system with adiabatic characteristic of elastic forces. (Polish. English and Russian summaries) *Zastos. Mat.* 7 (1964), 371-381. (From the author's summary) 30 #5535

(with Urbanik, K.) A random integral and Orlicz spaces. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 15 (1967), 161-169. (J. L. Doob) 35 #6170

Remarks on eigenvalues of infinite matrices. *Colloq. Math.* 19 (1968), 103-106. (Marvin Marcus) 37 #3348

Additive functionals on Orlicz spaces. *Colloq. Math.* 19 (1968), 319-326. (K. Sundaresan) 37 #5688

Orlicz spaces have the weak difference property. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 95-100. (F. W. Carroll) 37 #1986

Additive operators. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 447-451. (A. C. Zaanen) 40 #7835

On characteristic functionals of linear processes with independent pieces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 551-557. (P. M. Lee) 41 #7754

Order continuity of linear processes with independent pieces. (Loose Russian summary) *Bull. Acad. Polon. Sic. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 819-825. (P. M. Lee) 41 #7755

Sur la convergence des séries dans les espaces de type (*L*). *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1254-A1257. (W. A. J. Luxembrug) 39 #6049

Modular spaces and linear processes with independent pieces. (Loose Russian summary) *Bull. Acad. Polon. Sci, Sér. Sci. Math. Astronom. Phys.* 18 (1970), 197-207. (P. M. Lee) 44 #7628

(with Szász, D.) Poissonian random measures and linear processes with independent pieces. (Loose Russian summary) *Bull. Acad. Polon. Sic. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 475-482. (P. M. Lee) 43 #2754

Positive-coefficient elements of Hardy-Orlicz spaces. *Colloq. Math.* 21 (1970), 103-110. (R. A. Askey) 41 #2371

Ind-additive functionals on random vectors. *Dissertationes Math. Rozprawy Mat.* 72 (1970), 42 *pp.* (J. J. Uhl, Jr.) 42 #2518

Woźniak, Czesław

Stressless deformation of thin shells in the steady temperature field. (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 327-339. (H. Parkus) 29 #818

Finite deformation of shells (analysis of the strain geometry (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 535-545. (J. L. Sander, Jr.) 29 #5454

Some cases of stationary heat flow across a thick-walled shell. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964) 973-978. (L. J. Crane) 32 #766

Introduction to mechanics of fibrous media. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 1103-1115. (N. Cristescu) 32 #1971

Woźniak, K.

(with Romanowicz, Z.) On a property of approaching maps in Euclidean spaces. *Prace Mat.* 12 (1969), 201-204. (M. E. Shanks) 39 #6176

Woźniakowski, H.

Some remarks on Bairstow's method. (Polish and Russian summaries) *Zastos. Mat.* 11 (1969/70), 207-214. (G. W. Stewart) 42 #1333

Woźnicki, W.

(with Jankowski, K.) Some remarks on the correlated wave function method. (Russian summary) *Bull. Acad. Polon. Sci. Ser. Sci. Math. Astronom. Phys.* 13 (1965), 249-255. (R. O. Davies) 32 #910

Wozny, Michael J.

(with Carpenter, W.) A characteristics approach to parameter identification in distributed systems. *IEEE Trans. Automatic Control* AC-14 (1969), 422. 40 #3932

Wragg, A.

(with Wadsworth, M.) The numerical solution of the heat conduction equation in one dimension. *Proc. Cambridge Philos. Soc* 60 (1964), 897-907. (E. L. Albasiny) 30 #727

(with Wadsworth, M.) On matrix methods for the solution of partial differential equations. *Proc. Cambridge Philos. Soc.* 61 (1965), 129-132. (M. Lees) 30 #1621

The use of Lanczos τ-methods in the numerical solution of a Stefan problem. *Comput. J.* 9 (1966), 106-109. (Author's summary) 33 #5150

Wraith, G. C.

Hopf algebras over Hopf algebras. *Ann. Mat. Pura Appl.* (4) 76 (1967), 149-163. (G. S. Rinehart) 37 #1444

Abelian Hopf algebras. *J. Algebra* 6 (1967), 135-156. (M. Barr) 35 #1586

* Algebraic theories. Lectures Autumn 1969. Lecture Notes Series, No. 22. *Matematisk Institut, Aarhus Universitet, Aarhus*, 1970. ii + 131 *pp.* *(Errata Insert)* (J. R. Isbell) 41 #6943

(with Tall, D. O.) Representable functors and operations on rings. *Proc. London Math. Soc.* (3) 20 (1970), 619-643. (J. Sonner) 42 #258

Wrathall, Claude P.

New factors of Fermat numbers. *Math. Comp.* 18 (1964), 324-325. (D. H. Lehmer) 29 #1167

Wrede, Robert C.

* Introduction to vector and tensor analysis. *John Wiley & Son, Inc., New York-London-Sydney*, 1963. xii + 418 *pp.* (B. A. Amirà) 32 #408

Wrench, John W., Jr.

Further evaluation of Khintchine's constant. *Math. Comp.* 14 (1960), 370-371. (Editors) 30 #693

Concerning two series for the gamma function. *Math. Comp.* 22 (1968), 617-626. (I. A. Stegun) 38 #5371 (with Lal, Mohan; Shanks, Daniel) Corrigenda to: "The calculation of certain Dirichlet series". *Math. Comp.* 22 (1968), 699. (Editors) 37 #2414

(with Boas, R. P., Jr.) Partial sums of the harmonic series. *Amer. Math. Monthly* 78 (1971), 864-870. (F. P. Cass) 44 #7179

Wright, Alden

(with Lacher, R. C.) Mapping cylinders and 4-manifolds. *Topology of Manifolds (Proc. Inst., Univ. of Georgia, Athens, Ga., 1969), pp.* 424-427. *Markham, Chicago, Ill,* 1970. (K. W. Kwun) 42 #6832

Wright, Charles R. B.

Nilpotency conditions for finite loops. *Illinois J. Math.* 9 (1965), 399-409. (R. Artzy) 31 #5918

(with Glauberman, G.) Nilpotence of finite Moufang 2-loops. *J. Algebra* 8 (1968), 415-417. (O. H. Kegel) 36 #5251

On the multiplication group of a loop. *Illinois J. Math.* 13 (1969), 660-673. (R. Artzy) 40 #1522

(with Seitz, Gary M.) On finite groups whose Sylow subgroups are modular or quaternion-free. *J. Algebra* 13 (1969), 374-381. (Bhama Srinivasan) 40 #238

(with Seitz, Gary M.) On complements of $\mathfrak{F}$-residuals in finite solvable groups. *Arch. Math. (Basel)* 21 (1970), 139-150. (T. O. Hawkes) 42 #6117

On screens and $\mathfrak{L}$-izers of finite solvable groups. *Math. Z.* 115 (1970), 273-282. (T. O. Hawkes) 41 #6973

On primitive solvable linear groups. *Canad. J. Math.* 23 (1971), 679-685. (D. A. Foulser) 44 #4106

Wright, Donald

Reduced density matrices and the hard-sphere Bose gas. *Phys. Rev.* (2) 138 (1965), A1607-A1613. (S. Fujita) 32 #5271

Ground-state energy of the charged Bose gas. *Phys. Rev.* (2) 143 (1966), 91-95. (M. D. Girardeau) 33 #2324

Wright, Donald J.

General multiplicity theory. *Proc. London Math. Soc.* (3) 15 (1965), 269-288. (M. Nagata) 30 #4800

A limit formula for multiplicities. *J. London Math. Soc.* 40 (1965), 683-688. (P. M. Cohn) 32 #127

(with Blackburn, K.) The associative law for intersection numbers. *J. London Math. Soc.* 41 (1966), 433-442. (M. Nagata) 33 #7332

On a class of starlike functions. *Compositio Math.* 21 (1969), 122-124. (M. S. Robertson) 39 #7086

The radius of p-valent starlikeness for certain classes of analytic functions. *Ann. Polon. Math.* 23 (1970/71), 49-55. (T. Kubo) 41 #8653

On the uniqueness of a definition of multiplicity. *Quart. J. Math. Oxford Ser.* (2) 21 (1970), 171-176. (E. Golod (RŽMat 1970 #11 A288)) 44 #5309

(with Merkes, E. P.) On the univalence of a certain integral. *Proc. Amer. Math. Soc.* 27 (1971), 97-100. (D. K. Thomas) 42 #4720

Wright, E. B.

* (with Gardner, W. K.) Five-figure table of the functions $1/(1 - \tan\theta)$ and $1/(1 - \cot\theta)$ for the range $-90^\circ\ (1')\ 90^\circ$. NRL Report No. 6362. *U.S. Naval Research Laboratory, Washington, D. C.,* 1965. i + 50 *pp.* (L. J. Slater) 43 #2143

Wright, E. M.

Counting coloured graphs. II. *Canad. J. Math.* 16 (1964), 128-135. (W. T. Tutte) 31 #2171

Partition of multipartite numbers into k parts. *J. Reine Angew. Math.* 216 (1964), 101-112. (B. Gordon) 29 #3453

Approximation of irrationals by rationals. *Math. Gaz.* 48 (1964), 288-289. (T. M. Apostol) 29 #4737

Proof of a conjecture of Sudler's. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 11-15. (N. J. Fine) 29 #1190

A closer estimate for a restricted partition function. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 283-287. (N. J. Fine) 29 #1191

Spiralling in plane random walk. *Canad. Math. Bull.* 8 (1965), 1-6. (L. Carlitz) 30 #4694

Equal sums of like powers. *Canad. Math. Bull.* 8 (1965), 193-202. (L. Carlitz) 31 #117

An enumerative proof of an identity of Jacobi. *J. London Math. Soc.* 40 (1965), 55-57. (L. Carlitz) 30 #69

An extension of a theorem of Gordon. *Proc. Glasgow Math. Assoc.* 7, 39-41 (1965). (B. Gordon) 31 #2231

The generating function of solid partitions. *Proc. Roy. Soc. Edinburgh Sect. A* 67 (1965/67), 185-195. (D. W. Walkup) 35 #4114

Coefficients of a reciprocal generating function. *Quart. J. Math. Oxford Ser.* (2) 17 (1966), 39-43. (M. S. Cheema) 33 #308

A relationship between two sequences. *Proc. London Math. Soc.* (3) 17 (1967), 296-304. (R. C. Read) 34 #5709

A relationship between two sequences. II. *Proc. London Math. Soc.* (3) 17 (1967), 547-552. (R. C. Read) 35 #2755

An identity and applications. *Amer. Math. Monthly* 75 (1968), 711-714. (J. Riordan) 38 #2035

Rotatable partitions. *J. London Math. Soc.* 43 (1968), 501-505. (M. S. Cheema) 37 #4043

A relationship between two sequences. III. *J. London Math. Soc.* 43 (1968), 720-724. (R. C. Read) 37 #5120

Asymptotic enumeration of connected graphs. *Proc. Roy. Soc. Edinburgh Sect. A* 68 (1968/70), 298-308. (W. G. Brown) 42 #1723

Stacks. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 313-320. (A. L. Whiteman) 37 #5178

The number of graphs on many unlabelled nodes. *Math. Ann.* 183 (1969), 250-253. (R. C. Read) 40 #4160

Graphs on unlabelled nodes with a given number of edges. *Acta Math.* 126 (1970), 1-9. (A. Gewirtz) 42 #2975

(with Read, R. C.) Coloured graphs: A correction and extension. *Canad. J. Math.* 22 (1970), 594-596. (E. C. Milner) 41 #8296

The number of irreducible tournaments. *Glasgow Math. J.* 11 (1970), 97-101. (J. W. Moon) 43 #109

Asymptotic relations between enumerative functions in graph theory. *Proc. London Math. Soc.* (3) 20 (1970), 558-572. (E. M. Palmer) 41 #1593

Stacks. II. *Quart. J. Math. Oxford Ser.* (2) 22 (1971), 107-116. (A. L. Whiteman) 44 #174

Counting coloured graphs. III. *Canad. J. Math.* 24 (1972), 82-89. (W. T. Tutte) 44 #6559

Wright, F. T.

(with Hanson, D. L.) Some more results on rates of convergence in the law of large numbers for weighted sums of independent random variables. *Trans. Amer. Math. Soc.* 141 (1969), 443-464. (H. G. Tucker) 40 #914

(with Hanson, D. L.) On the existence of equivalent finite invariant measures. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 200-202. (J. J. Uhl, Jr.) 44 #5429

(with Hanson, D. L.) A bound on tail probabilities for quadratic forms in independent random variables. *Ann. Math. Statist.* 42 (1971), 1079-1083. (T. M. Liggett) 43 #5585

Wright, Fred B.

(with Isbell, J. R.) Another equivalent form of the axiom of choice. *Proc. Amer. Math. Soc.* 17 (1966), 174. (A. Mostowski) 32 #3994

(with Diem, J. E.) Real characters and the radical of an abelian group. *Trans. Amer. Math. Soc.* 129 (1967), 517-529. (G. A. Reid) 35 #5546

Wright, Fred M.

(with Smith, Keith P.) Existence conditions for the Lane integral. *Proc. Amer. Math. Soc.* 18 (1967), 1067-1073. (T. H. Hildebrandt) 36 #326

(with Smith, Keith P.) On the equality of a Lane integral and a Stieltjes mean sigma integral. *J. Indian Math. Soc. (N.S.)* 33 (1969), 7-12. (S. Foglio) 41 #420

(with Baker, James D.) On integration-by-parts for weighted integrals. *Proc. Amer. Math. Soc.* 22 (1969), 42-52. (S. Foglio) 39 #7056

(with Klasi, M. L.; Kennebeck, D. R.) The Gronwall inequality for weighted integrals. *Proc. Amer. Math. Soc.* 30 (1971), 504-510. (S. J. Taylor) 44 #380

von Wright, Georg Henrik

"And next". *Acta Philos. Fenn. Fasc.* 18 (1965), 293-304. (J. E. Fenstad) 33 #2537

"And then". *Soc. Sci. Fenn. Comment. Phys.-Math.* 32 (1966), *no.* 7, 11 *pp.* (From the author's introduction) 33 #7249

Wright, Gordon P.

(with Francis, Richard L.) Some duality relationships for the generalized Neyman-Pearson problem. *J. Optimization Theory Appl.* 4 (1969), 394-412. (T. V. Avadhani) 42 #7262

Wright, Harvel

(with Snyder, W. S.) On the differentiability of arbitrary real-valued set functions. I. *Trans. Amer. Math. Soc.* 145 (1969), 439-454. (T. A. Botts) 40 #4416

(with Snyder, W. S.) On the differentiability of arbitrary real-valued set functions. II. *Trans. Amer. Math. Soc.* 161 (1971), 111-122. (T. A. Botts) 43 #7578

Wright, J.

(with Morrison, D.; Kiang, M.) On disjoint connected subsets of a square containing pairs of antipodal points. *Canad. Math. Bull.* 9 (1966), 631-638. (F. Burton Jones) 34 #5070

Wright, J. D. Maitland

An extension theorem and a dual proof of a theorem of Gleason. *J. London Math. Soc.* 43 (1968), 699-702. (H. E. Lacey) 37 #4632

Applications to averaging operators of the theory of Stone algebra valued modular measures. *Quart. J. Math. Oxford Ser.* (2) 19 (1968), 321-331. (M. P. Olson) 40 #1576

Martingale convergence theorems for sequences of Stone algebras. *Glasgow Math. J.* 10 (1969), 77-83. (H. Körezlioğlu) 40 #2811

Order completeness and topological completeness. *J. London Math. Soc.* (2) 1 (1969), 444-446. (J. W. Bunce) 43 #943

A lifting theorem for Boolean σ-algebras. *Math. Z.* 112 (1969), 326-334. (S. J. Taylor) 40 #5818

Stone-algebra-valued measures and integrals. *Proc. London Math. Soc.* (3) 19 (1969), 107-122. (M. P. Olson) 39 #1625

A spectral theorem for normal operators on a Kaplansky-Hilbert module. *Proc. London Math. Soc.* (3) 19 (1969), 258-268. (P. Civin) 39 #3343

A Radon-Nikodym theorem for Stone algebra valued measures. *Trans. Amer. Math. Soc.* 139 (1969), 75-94. (M. P. Olson) 40 #1577

A decomposition theorem. *Math. Z.* 115 (1970), 387-391. (M. (M. P. Olson) 42 #4691

The solution of a problem of Sikorski and Matthes. *Bull. London Math. Soc.* 3 (1971), 52-54. (R. A. Melter) 44 #128

Wright, J. L.

(with Scadron, M.) A variational method for finding eigenvalues of the Lippmann-Schwinger equation and the corresponding Regge trajectories. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1571-1581. (S. T. Kuroda) 30 #2845

(with Scadron, M.; Weinberg, S.) Functional analysis and scattering theory. *Phys. Rev.* (2) 135 (1964), B202-B207. (S. T. Kuroda) 30 #2844

(with Levine, Michael; Tjon, John) Nonsingular Bethe-Salpeter equation. *Phys. Rev. Lett.* 16 (1966), 962-964. (J. M. Charap) 34 #1041

(with Stapp, H. P.) On integral representations for N-particle functions. (Italian and Russian summaries) *Nuovo Cimento A* (10) 57 (1968), 475-496. (D. I. Olive) 38 #1886

Wright, James P.

General relativistic instability. *Phys. Rev.* (2) 136 (1964), B288-B289. (H. Treder) 31 #2051

Solution of Einstein's field equations for a rotating, stationary, and dust-filled universe. *J. Mathematical Phys.* 6 (1965), 103-105. (H. Treder) 30 #1844

Wright, Jesse B.

(with Mezei, J.) Algebraic automata and context-free sets. *Information and Control* 11 (1967), 3-29. (L. L. Bumgarner) 38 #3091

(with Eilenberg, Samuel) Automata in general algebras. *Information and Control* 11 (1967), 452-470. (J. R. Isbell) 36 #6333

(with Thatcher, J. W.) Generalized finite automata theory with an application to a decision problem of second-order logic. *Math. Systems Theory* 2 (1968), 57-81. (L. H. Landweber) 37 #75

Wright, Jon Alan

Generalization of Levinson's theorem to three-body systems. *Phys. Rev.* (2) 139 (1965), B137-B149. (J. M. Charap) 32 #6942

Wright, K.

(with Baker, C. T. H.; Fox, L.; Mayers, D. F.) Numerical solution of Fredholm integral equations of first kind. *Comput. J.* 7 (1964), 141-148. (D. Elliott) 31 #5355

(with Hurley, Margaret; Roberts, P. H.) The oscillations of gas spheres. *Astrophys. J.* 143 (1966), 535-551. (N. R. Lebovitz) 32 #9018

Series methods for integration. *Comput. J.* 9 (1966), 191-199. (Author's summary) 33 #3463

Some relationships between implicit Runge-Kutta, collocation and Lanczos τ methods, and their stability properties. *Nordisk Tidskr. Informationsbehandling (BIT)* 10 (1970), 217-227. (M. Lotkin) 42 #1345

Wright, Michael J.

On the number of prolongations of a finite rank valuation. *Canad. J. Math.* 23 (1971), 553-556. (L. Narici) 44 #6698

Wright, Perrin

A uniform generalized Schoenflies theorem. *Bull. Amer. Math. Soc.* 74 (1968), 718-721. (R. Fritsch) 37 #4799

A uniform generalized Schoenflies theorem. *Ann. of Math.* (2) 89 (1969), 292-304. (J. Kister) 40 #3556

Radial engulfing in codimension three. *Duke Math. J.* 38 (1971), 295-298. (R. Tindell) 43 #6933

Covering isotopies of M^{n-1} in N^n. *Proc. Amer. Math. Soc.* 29 (1971), 591-598. (S. S. Cairns) 43 #6934

Collapsing $K \times I$ to vertical segments. *Proc. Cambridge Philos. Soc.* 69 (1971), 71-74. (C. W. Patty) 42 #8475

Wright, Robert K.

On algebraic extensions and order-preserving isomorphisms of certain partially ordered fields. *Trans. Amer. Math. Soc.* 137 (1969), 101-114. (N. Sankaran) 39 #182

* (with Strodt, Walter) Asymptotic behavior of solutions and adjunction fields for nonlinear first order differential equations. Memoirs of the American Mathematical Society, No. 109. *American Mathematical Society, Providence, R. I.*, 1971. 284 pp. (K. Okugawa) 44 #1884

Wróbel, Tadeusz Trajdos. See Trajdos-Wróbel, Tadeusz.

Wrona, Wladyslaw

Sur une méthode de localisation des zéros d'un polynôme. (Romanian and Russian summaries) *Studia Univ. Babeş-Bolyai Ser. Math.-Phys.* 12 (1967), *no.* 2, 17-24. (M. Marden) 39 #1638

Wrona, Włodzimierz

* Matematyka. Podstawowy wykład politechniczny. Część II. (Polish) [Mathematics. Fundamental polytechnical lectures. Part II] *Państwowe Wydawnictwo Naukowe, Warsaw*, 1964. 646 pp. (R. Carroll) 31 #1157

On geodesics of a certain singular n-dimensional Finsler space. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 271-276. (M. Kucharzewski) 38 #6521

Wschebor, M.

(with Révész, P.) On the statistical properties of the Walsh functions. (Russian summary) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 9 (1964), 543-554 (1965). (A. D. McLaren) 33 #7780

(with Cabaña, E. M.) On the barrier problem for stationary Gaussian processes. (Spanish summary) *Univ. Repúb. Fac. Ingen. Agrimens. Montevideo Publ. Inst. Mat. Estadíst.* 4, 123-128 (1969). (I. Cuculescu) 42 #5317

Wu, Alfred Chi-Tai

Perturbation analyticity and axiomatic analyticity. I. Connection of the Landau singularity manifold with Källén $\Xi_n(t)$ manifold and Jost DANAD manifold. *Phys. Rev.* (2) 135 (1964), B222-B229. (R. F. Streater) 29 #948

Perturbation analyticity and axiomatic analyticity. II. Hankel transforms. *Phys. Rev.* (2) 135 (1964), B230-B232. (R. F. Streater) 29 #949

Formal reduction of Feynman graphs and its possible implicati on the absence of direct 5π resonance. *Phys. Rev. Lett.* 14 (1965), 793-794. (R. F. Streater) 31 #4439

Structure of the combinatorial generalization of hypergeometric functions for SU(n) states. *J. Mathematical Phys.* 12 (1971), 437-440. (W. R. Derrick) 43 #2932

Wu, C. A.

(with Leondes, Cornelius T.) Initial condition sensitivity functions and their applications. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga.*, 1970*), pp.* 428-435. *Amer. Soc. Mech. Engrs., New York*, 1970. (Authors' summary) 41 #8063

Wu, C. S.

(with Lee, T. D.) Weak interactions. *Annual Rev. Nuclear Sci., Vol.* 15, *pp.* 381-476. *Annual Reviews, Inc., Palo Alto, Calif.*, 1965. (S. L. Glashow) 32 #5157

Wu, Chien-Heng

(with Plunkett, Robert) On the contact problem of thin circular rings. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 11-20. (I. Tadjbakhsh) 30 #3604

A Saint-Venant principle for the Neumann problem with a non-thin two-dimensional domain. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 389-402. (C.-B. Ling) 42 #8760

On the solutions of a nonlinear membrane problem. *SIAM J. Appl. Math.* 18 (1970), 738-747. (From the author's introduction) 44 #3559

Wu, Ching-sheng

Useful operator in plasma kinetic theory. *J. Mathematical Phys.* 5 (1964), 1701-1712. (J. A. McLennan) 30 #918

High-frequency conductivity of a plasma in quasiequilibrium. I. Formulation of the general theory. *Phys. Rev.* (2) 138 (1965), A51-A57. (Edward Frieman) 32 #3753

High-frequency conductivity of a plasma in quasi-equilibrium. II. Effect of a uniform magnetic field. *Phys. Rev.* (2) 140 (1965), A118-A129. (Edward Frieman) 32 #7140

Wu, Cho-chün. See Wu Chuo-ch'ün.

Wu, Chung Hsiang. See Hsiang, Wu-chung.

Wu, Fang. See Wu Fang.

Wu, Fa yueh

(with Feenberg, Eugene) Theory of the fermion liquid. *Phys. Rev.* (2) 128 (1962), 943-955. (J. C. Swihart) 30 #4519

Wu, Hung-Hsi

Decomposition of Riemannian manifolds. *Bull. Amer. Math. Soc.* 70 (1964), 610-617. (K. Nomizu) 29 #566

Two remarks on sprays. *J. Math. Mech.* 14 (1965), 873-879. (S. Kobayashi) 31 #5174

Normal families of holomorphic mappings. *Acta Math.* 119 (1967), 193-233. (Gerd Fischer) 37 #468

Holonomy groups of indefinite metrics. *Pacific J. Math.* 20 (1967), 351-392. (L. Auslander) 35 #3606

Mappings of Riemann surfaces (Nevanlinna theory). *Entire Functions and Related Parts of Analysis (Proc. Sympos. Pure Math., La Jolla, Calif.*, 1966*), pp.* 480-532. *Amer. Math. Soc., Providence, R. I.*, 1968. (L. V. Ahlfors) 38 #6053

Remarks on the first main theorem in equidistribution theory. I. *J. Differential Geometry* 2 (1968), 197-202. (W. Stoll) 43 #2247a

Remarks on the first main theorem in equidistribution theory. II. *J. Differential Geometry* 2 (1968), 369-384. (W. Stoll) 43 #2247b

An *n*-dimensional extension of Picard's theorem. *Bull. Amer. Math. Soc.* 75 (1969), 1357-1361. (A. Gray) 40 #7482

Remarks on the first main theorem in equidistribution theory. III. *J. Differential Geometry* 3 (1969), 83-94. (W. Stoll) 43 #2247c

Remarks on the first main theorem in equidistribution theory. IV. *J. Differential Geometry* 3 (1969), 433-446. (W. Stoll) 43 #2247d

A characteristic property of the euclidean plane. *Michigan Math. J.* 16 (1969), 141-148. (R. L. Bishop) 39 #7544

* The equidistribution theory of holomorphic curves. Annals of Mathematics Studies, No. 64. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo,* 1970. xxiv + 219 *pp.* (W. Barth) 42 #7951

(with Kobayashi, Shoshichi) On holomorphic sections of certain hermitian vector bundles. *Math. Ann.* 189 (1970), 1-4. (Ph. Tondeur) 42 #5281

(with Greene, Robert E.) On flat hermitian metrics on the unit disc. *Math. Z.* 116 (1970), 235-241. (M. Glasner) 43 #2648

(with Greene, Robert E.) Bloch's theorem for meromorphic functions. *Math. Z.* 116 (1970), 247-257. (K. T. Hahn) 42 #4777

(with Greene, R. E.) On the rigidity of punctured ovaloids. *Ann. of Math.* (2) 94 (1971), 1-20. (C. S. Weaver) 44 #7490

(with Greene, R. E.) Curvature and complex analysis. *Bull. Amer. Math. Soc.* 77 (1971), 1045-1049. (A. Aeppli) 44 #473

A structure theorem for complete noncompact hypersurfaces of nonnegative curvature. *Bull. Amer. Math. Soc.* 77 (1971), 1070-1071. (Y. Katsurada) 44 #2183

Wu, Hung-hsin. See Wu Ts'ung-hsin.

Wu, L. E. T.

A characterization of self-injective rings. *Illinois J. Math.* 10 (1966), 61-65. (F. W. Anderson) 32 #7606

(with Mochizuki, H. Y.; Jans, J. P.) A characterization of QF-3 rings. *Nagoya Math. J.* 27 (1966), 7-13. (S. E. Dickson) 33 #2680

(with Jans, J. P.) On quasi projectives. *Illinois J. Math.* 11 (1967), 439-448. (Carl Faith) 36 #3817

Wu, Ling-erl E. T.

Bicontinuous isomorphisms between two closed left ideals of a compact dual ring. *Canad. J. Math.* 18 (1966), 1148-1151. (J. P. Jans) 34 #211

Wu, Min-yen

(with Desoer, C. A.) Stability of multiple-loop feedback linear time-invariant systems. *J. Math. Anal. Appl.* 23 (1968), 121-129. (G. Zames) 37 #3854

(with Desoer, C. A.) Stability of a nonlinear time-invariant feedback system under almost constant inputs. (French, German and Russian summaries) *Automatica—J. IFAC* 5 (1969), 231-233. (Authors' summary) 40 #1158

(with Desoer, C. A.) L^p stability ($1 \leq p \leq \infty$) of nonlinear time-varying feedback systems. *SIAM J. Control* 7 (1969), 356-364. (G. Zames) 40 #6992

L^2-stability of non-linear time-varying systems. *Internat. J. Systems Sci.* 1 (1970), *no.* 2, 133-142. (R. Tomović) 42 #4248

A note on the complete controllability of linear dynamical systems. *Internat. J. Systems Sci.* 1 (1970), *no.* 2, 185-190. (E. Ar) 42 #4249

(with Desoer, C. A.) Input-output properties of multiple-input, multiple-output discrete systems. I, II. *J. Franklin Inst.* 290 (1970), 11-24; *ibid.* 290 (1970), 85-101. (D. H. Chyung) 42 #4233

Wu, P. M.

Storage with deterministic outputs and inputs subject to breakdown. *J. Appl. Probability* 5 (1968), 636-647. (C. Mohan) 41 #2804

Wu, S. M.

(with Goel, A. L.; Jain, S. C.) An algorighm for the determination of the economic design of $\bar{X}$-charts based on Duncan's model. *J. Amer. Statist. Assoc.* 63 (1968), 304-320. (From the authors' summary) 36 #6088

Wu, Sherman H.

(with Murphy, G. J.) A stability criterion for pulse-width-modulated feedback control systems. *IEEE Trans. Automatic Control* AC-9 (1964), 434-441. (T. F. Bridgland, Jr.) 31 #5742

(with Bruckner, Juergen) A maximum principle for discrete systems with control variable inequality constraints. *Proc. Sixth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill.,* 1968*), pp.* 475-484. *Univ. of Illinois, Urbana, Ill.*, 1968. (Authors' summary) 41 #8090

(with Heinen, J. A.) Further results concerning finite-time stability. *IEEE Trans. Automatic Control* AC-14 (1969), 211-212. (Authors' summary) 39 #5183

(with Michel, A. N.) Stability of discrete systems over a finite interval of time. *Internat. J. Control* (1) 9 (1969), 679-693. (G. R. Sell) 40 #3096

(with Heinen, James A.) Set stability of differential equations. *Internat. J. Systems Sci.* 1 (1971), *no.* 3, 269-277. (N. P. Bhatia) 43 #2308

Wu, T. Yao-tsu

(with Mei, C. C.) Gravity waves due to a point disturbance in a plane free surface flow of stratified fluids. *Phys. Fluids* 7 (1964), 1117-1133. (R. R. Long) 29 #3069

Wu, Tai Tsun

(with Pais, A.) Singular potentials and peratization. II. *J. Mathematical Phys.* 5 (1964), 799-804. (G. Barton) 29 #974

(with Pwu, Yih) Uncrossed ladder graphs in the Feinberg-Pais theory of leptonic weak interactions. *Phys. Rev.* (2) 133 (1964), B778-B788. (A. Pais) 33 #1049

(with Pwu, Yih) Higher order leptonic weak interactions. *Phys. Rev.* (2) 133 (1964), B1299-B1305. (A. Pais) 33 #2239

(with Pais, A.) Scattering formalism for singular potential theory. *Phys. Rev.* (2) 134 (1964), B1303-B1307. (E. Predazzi) 29 #4445

Scattering by the singular potential $-gr^{-4} \ln r$. *Phys. Rev.* (2) 136 (1964), B1176-B1183. (F. Calogero) 31 #4383

(with Yang, C. N.) Some speculations concerning high-energy large momentum transfer processes. *Phys. Rev.* (2) 137 (1965), B708-B711. (Authors' summary) 32 #2099

(with Cheng, Hung) Regge poles in quantum electrodynamics with massive photons. *Phys. Rev.* (2) 140 (1965), B465-B469. (W. K. R. Watson) 33 #2222

Electrodynamics of intermediate bosons and CP noninvariance. *Phys. Rev. Lett.* 15 (1965), 718-720; *errata, ibid.* 15 (1965), 811. (M. Wellner) 32 #8799

Born approximation and large-momentum-transfer processes in potential scattering. *Phys. Rev.* (2) 143 (1966), 1110-1116. (T. Regge) 33 #3623

High-energy large-momentum-transfer processes and analyticity in coordinate space. *Phys. Rev.* (2) 143 (1966), 1117-1134. (T. Regge) 33 #3624

(with Cheng, Hung) Asymptotic form of the *S* matrix for large angular momentum in the left half-plane. *Phys. Rev.* (2) 144 (1966), 1232-1236. (F. Calogero) 33 #3615

(with McCoy, Barry M.) Theory of a two-dimensional Ising model with random imputities. I. Thermodynamics. *Phys. Rev.* (2) 176 (1968), 631-643. (G. Bandyopadhyay) 44 #3640

(with Bender, Carl M.) Anharmonic oscillator. *Phys. Rev.* (2) 184 (1969), 1231-1260. (T. Sasakawa) 41 #4951

(with McCoy, Barry M.) Theory of a two-dimensional Ising model with random impurities. II. Spin correlation functions. *Phys. Rev.* (2) 188 (1969), 982-1013. (G. Bandyopadhyay) 44 #3641

(with Cheng, Hung) An aging spring. *Studies in Appl. Math.* 49 (1970), 183-185. (C. A. Swanson) 41 #5730

Wu, Ta-sun

Invariant uniformities on coset spaces. *Amer. Math. Monthly* 71 (1964), 888-889. (Deane Montgomery) 30 #1207

Continuous flows with closed orbits. *Duke Math. J.* 31 (1964), 463-469. (W. H. Gottschalk) 29 #1631

Locally compact semigroups with dense maximal subgroups. *Trans. Amer. Math. Soc.* 113 (1964), 151-168. (K. H. Hofmann) 29 #1630

Structural analysis by system theory. *Developments in Theoret. and Appl. Mech. Vol. 2 (Proc. Second Southeastern Conf., Atlanta, Ga.,* 1964*), pp.* 605-628. *Pergamon, Oxford,* 1965. (R. Gambino-Amato) 31 #2890

Proximal relations in topological dynamics. *Proc. Amer. Math. Soc.* 16 (1965), 513-514. (R. Ellis) 31 #4018

Left almost periodicity does not imply right almost periodicity. *Bull. Amer. Math. Soc.* 72 (1966), 314-316. (K. H. Hofmann) 32 #5777

Expansive automorphisms in compact groups. *Math. Scand.* 18 (1966), 23-24. (J. Liu) 33 #2759

Homomorphisms in topological dynamics. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 53-61. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (R. Ellis) 37 #4801

Construction of locally almost periodic minimal transformation groups. *Math. Systems Theory* 1 (1967), 157-163. (R. Ellis) 35 #3650

Continuous automorphisms on locally compact groups. *Math. Z.* 96 (1967), 256-258. (K. H. Hofmann) 34 #4407

Two homomorphic but nonisomorphic minimal sets. *Michigan Math. J.* 14 (1967), 401-404. (R. F. Williams) 37 #2209

(with Bagley, R. W.) Topological groups with equal left and right uniformities. *Proc. Amer. Math. Soc.* 18 (1967), 142-147. (S. N. Hudson) 34 #7697

Notes on coset transformation groups. *Topological Dynamics (Symposium, Colorado State Univ., Ft. Collins, Colo.,* 1967*), pp.* 507-512. *Benjamin, New York,* 1968. (A. Morimoto) 38 #3849

(with Lee, Dong Hoon) On the group of automorphisms of a finite-dimensional topological group. *Michigan Math. J.* 15 (1968), 321-324. (S. N. Hidson) 38 #1208

Disjointness of minimal sets. *Michigan Math. J.* 15 (1968), 369-371. (R. Ellis) 38 #2761

Distal minimal flow is coalescent. *Proc. Amer. Math. Soc.* 19 (1968), 429-432. (R. Ellis) 36 #5927 (with Lee, Dong Hoon) On conjugacy of homomorphisms of topological groups. *Illinois J. Math.* 13 (1969), 694-699. (P. S. Mostert) 40 #1525

On the topology of a dual space. *Michigan Math. J.* 16 (1969), 265-268. (J. G. Horne) 40 #1526; erratum, 40, p. 1706

A certain type of locally compact totally disconnected topological groups. *Proc. Amer. Math. Soc.* 23 (1969), 613-614. (T. Husain) 40 #2782

Ergodic automorphisms on compact groups. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970), pp.* 237-241. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (R. L. Adler) 44 #408

(with Lee, D. H.) On CA topological groups. *Duke Math. J.* 37 (1970), 515-521. (G. A. Reid) 42 #417

(with Lee, D. H.) On conjugacy of homomorphisms of topological groups. II. *Illinois J. Math.* 14 (1970), 409-413. (P. S. Mostert) 42 #1939

Locally compact, totally disconnected, solvable groups. *Michigan Math. J.* 17 (1970), 69-72. (M. Friedberg) 41 #3662

(with Lee, D. H.) On existence of compact open normal subgroups of 0-dimensional groups. *Proc. Amer. Math. Soc.* 26 (1970), 526-528. (J. G. Horne) 42 #3224

Discrete uniform subgroups of Lie groups. *Topology* 9 (1970), 137-140. (J. Hano) 41 #5551

On (*CA*) topological groups. II. *Duke Math. J.* 38 (1971), 513-519. (G. A. Reid) 44 #6897

A note on the minimality of certain bitransformation groups. *Pacific J. Math.* 36 (1971), 553-556. (Deane Montgomery) 44 #1009

Wu, Ta-You

(with Rosenberg, R. L.) Relaxation time and solution of Geurnsey-Balescu equation for homogeneous plasmas. *Canad. J. Phys.* 42 (1964), 548-562. (H. Weitzner) 30 #5762

Wu, Ting-shu

(with Boley, Bruno A.) Bounds in melting problems with atbitrary rates of liquid removal. *SIAM J. Appl. Math.* 14 (1966), 306-323. (M. Sichel) 35 #3970

Wu, Ting Tsuan. See Ting, Tsuan Wu.

Wu, Tsung-hsin. See Wu Ts'ung-hsin.

Wu, Yau

On the internal flow of rarefied gases. *Rarefied Gas Dynamics, Vol. I (Proc. Fourth Internat. Sympos., Univ. Toronto,* 1964*), pp.* 677-697. *Academic Press, New York,* 1966. (J. P. Guiraud) 34 #1016

Markov chain theory of free-molecule flow. *J. Math. and Phys.* 45 (1966), 169-178. (T. S. Lundgren) 34 #5384

Wu, Yel-chiang

(with Kleisli, H.) On injective sheaves. *Canad. Math. Bull.* 7 (1964), 415-423. (J. W. Gray) 29 #5882

Two theorems on spectral sequences. *Illinois J. Math.* 13 (1969), 256-271. (A. H. Clark) 39 #6324

(with Robinson, Stewart M.) A note on separation axioms weaker than T_1. *J. Austral. Math. Soc.* 9 (1969), 233-236. (C. W. Patty) 39 #911; erratum, 41, p. 1963

A short proof of a theorem of Barr-Beck. *Bull. Amer. Math. Soc.* 76 (1970), 1275-1276. (M. Barr) 42 #341

(with Hilton, P. J.) On the addition of relations in an abelian category. *Canad. J. Math.* 22 (1970), 66-74. (J. R. Isbell) 41 #3560

Wu Ai-ch'eng

(with Wu Li-te) Estimation of parameters in finite Markov processes. (Chinese) *Shuxue Jinzhan* 8 (1965), 168-172. (T.-P. Lin) 38 #1772

Wuang, Kuang-ying. See Wang Kuang-yin.

Wu Cang-pu. See Wu Ts'ang-p'u.

Wu Chen-te

The nonreducibility of the operation $\mathfrak{B}_p\mathcal{P}^{p^{\alpha+i}}\cdots\mathcal{P}^{p^{\alpha+1}}\mathcal{P}^{p^{\alpha}}$. *Acta Math. Sinica* 13 (1963), 78-85 *(Chinese); translated as Chinese Math.* 4 (1963), 88-96. (E. Thomas) 30 #2503

The irreducibility of the operations $\mathfrak{B}_p\mathcal{P}^{p^{\alpha+1}}\cdots\mathcal{P}^{p^{\alpha+1}}\mathcal{P}^{p^{\alpha}}$. *Sci. Sinica* 12 (1963), 1599-1607. (Editors) 30 #3475

(with Hsiung Chin-ch'eng) On the singularities of mappings of a k-dimensional differentiable manifold into a $(2k - N)$-dimensional vector space. *Acta Math. Sinica* 15 (1965), 511-532 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 229-251. (I. R. Porteous) 39 #972

The properties of typical singularities of mappings from k-dimensional differentiable manifolds onto 2-dimensional vector spaces. *Acta Math. Sinica* 16 (1966), 40-51 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 41-53. (J. M. Boardman) 34 #3589

Wu Ch'uan-yi

The types of limit distributions for some terms of variational series. *Sci. Sinica* 15 (1966), 749-762. (Simeon M. Berman) 35 #2329

Wu Chung-hai

Theorems on differential inequalities for nonlinear Bianchi equations. *Acta Math. Sinica* 13 (1963), 584-606 *(Chinese); translated as Chinese Math.* 4 (1964), 637-660. (L. Sarason) 29 #6149

The range of application of a theorem on a differential inequality for differential equations of hyperbolic type. *Acta Math. Sinica* 16 (1966), 52-60 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 54-62. (E. D. Conway) 33 #7676

Wu Chuo-ch'ün

On the existence and uniqueness of the generalized solutions of the Cauchy problem for quasilinear equations of first order without convexity conditions. *Acta Math. Sinica* 13 (1963), 515-530 *(Chinese); translated as Chinese Math.* 4 (1964), 561-577. (M. Schechter) 29 #6146

The ordinary differential equations with discontinuous right members and the discontinuous solutions of the quasilinear partial differential equations. *Sci. Sinica* 13 (1964), 1901-1917. (M. Schechter) 31 #2483

Wu Cong-Xin. See Wu Ts'ung-hsin.

Wuest, Walter

(von Trotha, H.) Reibungslose Strömung an Flügelnasen mit Ausblasen eines anderen Gases. *J. Mécanique* 3 (1964), 323-343. (M. G. Hall) 30 #4457

(with Hufen, Jörn-Henning) Ähnliche Lösungen bei kompressi Grenzschichten mit Wärmeübergang und Absaugen oder Ausblasen. (English summary) *Z. Angew. Math. Phys.* 17 (1966), 385-391. (C. R. Illingworth) 33 #6937

Wu Fang

On the queuing process *GI/M/n*. *Acta Math. Sinica* 11 (1961), 295-305 *(Chinese); translated as Chinese Math.* 2 (1962), 333-343. (Editors) 29 #5310

The lattice-points in an ellipse. *Acta Math. Sinica* 13 (1963), 238-253 *(Chinese); translated as Chinese Math.* 4 (1963), 260-274. (R. A. Rankin) 30 #62

Wu Hong-xin. See Wu Ts'ung-hsin.

Wu Hsin-mou

(See Equations of mathematical physics, 34 #3053)

Wu Hsueh-mou

On Bieberbach polynomials. *Acta Math. Sinica* 13 (1963), 145-151 *(Chinese); translated as Chinese Math.* 4 (1963), 161-168. (W. Kaplan) 29 #6000

Wu Hung-hsin. See Wu Ts'ung-hsin.

Wulbert, Daniel E.

(with Morris, Peter D.) Functional representation of topological algebras. *Pacific J. Math.* 22 (1967), 323-337. (R. Arens) 35 #4730

Convergence of operators and Korovkin's theorem. *J. Approximation Theory* 1 (1968), 381-390. (M. W. Müller) 38 #3679

(with Blatter, J.; Morris, P. D.) Continuity of the set-valued metric projection. *Math. Ann.* 178 (1968), 12-24. (E. J. Akutowicz) 37 #4563

Some complemented function spaces in *C*(*X*). *Pacific J. Math.* 24 (1968), 589-602. (H. E. Lacey) 36 #6915

Subsets of first countable spaces. *Proc. Amer. Math. Soc.* 19 (1968), 1273-1277. (D. R. Traylor) 38 #671

Continuity of metric projections. *Trans. Amer. Math. Soc.* 134 (1968), 335-341. (W. J. Davis) 38 #472

Locally connected Stone-Čech compactifications. *Contributio to Extension Theory of Top9logical Structures (Proc. Sympos., Berlin,* 1967*), pp.* 247-248. *Deutsch. Verlag Wissensch., Berlin,* 1969. (W. W. Comfort) 39 #7566

(with Cheney, E. W.; Hobby, C. R.; Morris, P. D.; Schurer, F. On the minimal property of the Fourier projection. *Bull. Amer. Math. Soc.* 75 (1969), 51-52. (W. B. Jones) 38 #4883

Averaging projections. *Illinois J. Math.* 13 (1969), 689-693. (J. Lindenstrauss) 41 #833

(with Lazar, A. J.; Morris, P. D.) Continuous selections for metric projections. *J. Functional Analysis* 3 (1969), 193-216. (J Albinus) 39 #3288

(with Lindenstrauss, Joram) On the classification of the Banach spaces whose duals are L_1 spaces. *J. Functional Analysis* 4 (1969), 332-349. (H. E. Lacey) 40 #3274

(with Cheney, E. W.) The existence and unicity of best approximations. *Math. Scand.* 24 (1969), 113-140. (H. Werner) 41 #5857

A characterization of *C*(*X*) for locally connected *X*. *Proc. Amer. Math. Soc.* 21 (1969), 269-272. (J. D. Pryce) 39 #1951

(with Cheney, E. W.; Hobby, C. R.; Morris, P. D.; Schurer, F. On the minimal property of the Fourier projection. *Trans. Amer. Math. Soc.* 143 (1969), 249-258. (R. D. Ryan) 41 #704

A note on the characterization of conditional expectation operators. *Pacific J. Math.* 34 (1970), 285-288. (B. Rodriguez-Salinas) 42 #5032

Uniqueness and differential characterization of approximation from manifolds of functions. *Bull. Amer. Math. Soc.* 77 (1971), 88-91. (F. Deutsch) 42 #8149

Wulff, Petter

The many-miles tour—An optimization problem. (Swedish. English summary) *Nordisk Mat. Tidskr.* 17 (1969), 124-131, 175. (Author's summary) 41 #3179

Wulfman, Carl E.

(with Shibuya, Tai-ichi) The Kepler problem in two-dimensional momentum space. *Amer. J. Phys.* 33 (1965), 570-574. (A. C. Hurley) 32 #8876

Wulfsohn, Aubrey

Produit tensoriel de C^*-albèbres. *Bull. Sci. Math.* (2) 87 (1963), *lière partie,* 13-27. (J. M. G. Fell) 29 #5121

Le produit tensoriel de certaines C^*-algèbres. *C. R. Acad. Sci. Paris* 258 (1964), 6052-6054. (J. M. G. Fell) 29 #5122

The reduced dual of a direct product of groups. *Proc. Cambridge Philos. Soc.* 62 (1966), 5-6. (J. M. G. Fell) 32 #5791

(with Guichardet, A.) Sur les produits tensoriels continus d'espaces hilbertiens. *J. Functional Analysis* 2 (1968), 371-377. (A. Wiweger) 38 #1508

(with Streater, R. F.) Continuous tensor products of Hilbert spaces and generalized random fields. (Italian and Russian summaries) *Nuovo Cimento B* (10) 57 (1968), 330-339. (Authors' summary) 38 #1891

The primitive spectrum of a tensor product of C^*-algebras. *Proc. Amer. Math. Soc.* 19 (1968), 1094-1096. (M. Takesaki) 37 #6771

(with Guichardet, A.) Continuous tensor product states which are translation invariant but not quasi-free. *Comm. Math. Phys.* 17 (1970), 133-142. (R. H. Herman) 43 #2944

Wu Lian-yuan. See Wu Lien-yuan.

Wulich, B. S. See Vulih, B. Z.

Wu Li-de. See Wu Li-te.

Wu Lien-yuan

(with Lo Tsu-Tsu-tao) General instability of an elastic circular cylindrical shell. (Chinese. English summary) *Acta Mech. Sinica* 5 (1962), 39-57. (Y. C. Fung) 31 #5395

Wu Li-te

On the distributions of integral functionals of homogeneous denumerable Markov processes. *Acta Math. Sinica* 13 (1963), 86-93 *(Dineses); translated as Chinese Math.* 4 (1963), 97-104. (R. S. Bucy) 29 #663

On A. Ja. Hinčin's hypothesis in the $M|M|n$ queue system. (Chinese) *Shuxue Jinzhan* 6 (1963), 341-344. 36 #4662

Classification of states of Markov processes with denumerable states. *Acta Math. Sinica* 15 (1965), 32-41 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 330-339. (J. Hachigian) 33 #3359

(with Wu Ai-ch'eng) Estimation of parameters in finite Markov processes. (Chinese) *Shuxue Jinzhan* 8 (1965), 168-172. (T.-P. Lin) 38 #1772

Probabilistic solution of the Kolmogorov equations. (Chinese) *Shuxue Jinzhan* 9 (1966), 162-168. 39 #3596

underlich, M. C.

Sieve-generated sequences. *Canad. J. Math.* 18 (1966), 291-299. (P. Erdős) 32 #5625

(with Briggs, W. E.) Second and third term approximations of sieve-generated sequences. *Illinois J. Math.* 10 (1966), 694-700. (W. Schwarz) 34 #153

(with Buschman, R. G.) Sieve-generated sequences with translated intervals. *Canad. J. Math.* 19 (1967), 559-570. (W. Schwarz) 35 #2855

Sieve-generated sequences with a limiting distribution property. *J. London Math. Soc.* 43 (1968), 339-346. (W. Schwarz) 37 #1339

A general class of sieve generated sequences. *Acta Arith.* 16 (1969/70), 41-56. (I. Kátai) 39 #6852

underlich, Walter

Zyklische Strahlkomplexe und geodätische Linien auf euklidischen und nichteuklidischen Dreh- und Schraubflächen. *Math. Z.* 85 (1964), 407-418. (K. Strubecker) 30 #4211

Zur Geometrie eingliedriger Kollineationsgruppen mit imaginärem Fixpunkttetraeder. *Monatsh. Math.* 68 (1964), 452-468. (K. Strubecker) 30 #3398

Zur Geometrie des gedämpften harmonischen Umschwungs. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 173 (1964), 7-28. (K. Strubecker) 31 #916

Starre, kippende, wackelige und bewegliche Achtfläche. *Elem. Math.* 20 (1965), 25-32. (H. R. Müller) 32 #4579

Über zwei durch Zylinderrollung erzeugbare Modelle der Steinerschen Römerfläche. *Arch. Math. (Basel)* 18 (1967), 325-336. (K. Strubecker) 36 #1441

Kubische Strahlflächen, die sich durch Bewegung einer starren Parabel erzeugen lassen. *Monatsh. Math.* 71 (1967), 344-353. (H. Brauner) 36 #5805

Durch Schiebung erzeugbare Römerflächen. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 176 (1967/68), 473-497. (K. Strubecker) 38 #4479

Kinematisch erzeugbare Römerflächen. *J. Reine Angew. Math.* 236 (1969), 67-78. (K. Strubecker) 40 #1391

Kurven mit isoptischem Kreis. *Aequationes Math.* 6 (1971), 71-81. (John W. Green) 44 #5858

Wunsch, Carl

The multiple spectral factorization method of Wiener and Masani. *IEEE Trans. Information Theory* IT-11 (1965), 175-182. (Author's summary) 32 #3933

Wunsch, Helga

* Die kugeltreuen Transformationen des isotropen Raumes. Zur Erlangung des akademischen Grades eines Doktors der Naturwissenschaften von der Fakultät für Natur- und Geisteswissenschaften der Technischen Hochschule Karlsruhe genehmighte Dissertation. *Dissertation, Karlsruhe,* 1963. 217 *pp.* (H. W. Guggenheimer) 31 #1596

Wünsch, Zdeněk

Self-reproducing automata. (Czech. English summary) *Kybernetika (Prague)* 4 (1968), 570-590. (Editors) 39 #3924

Wurtele, M. G.

(with Clark, Cheryl) The relative efficiency of certain schema in the solution of a Poisson equation. *J. Atmospheric Sci.* 22 (1965), 436-439. (Authors' summary) 33 #1982

Wurtele, Zivia S.

(with Breiman, Leo) Convergence properties of a learning algorighm. *Ann. Math. Statist.* 35 (1964), 1819-1822. (H. Chernoff) 31 #3249

A problem in pattern recognition. *J. Soc. Indust. Appl. Math.* 13 (1965), 60-67. (J. Kiefer) 31 #3250

Wu Shao-p'ing

The eigenvalue problem of cavity resonators with ideal walls. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 199-202. (I. Stakgold) 35 #2557

Wu Shih-shu

On a variational method and the RP-HRP approximation. *Sci. Sinica* 13 (1964), 1397-1409. (Author's summary) 30 #1767

Wu Shi-shu. See Wu Shih-shu.

Wu Shun-t'ang

On the approximation of continuous functions by means of linear operators. (Chinese) *Shuxue Jinzhan* 9 (1966), 245-250. 38 #2500

Wussing, Hans

Genesis of the abstract concept of a group. (Russian) Translated from German by A. V. Dorofeeva. *Istor.-Mat. Issled. No.* 17 (1966), 11-30. (D. J. Struik) 35 #2950

Zum historischen Verhältnis von Intension und Extension des Begriffes Gruppe im Herausbildungsprozess des abstrakten Gruppenbegriffes. *NTM Schr. Geschichte Naturwiss. Tech. Medizin* 4 (1967), *no.* 10, 23-34. (A.-A. P. Youschkevitch) 40 #1246

On the genesis of the abstract group theory. *Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Cracovie, 1965), Sect. III: Histoire des Sciences Exactes (Astronomie, Mathématiques, Physique), pp.* 298-300. *Ossolineum, Wrocław,* 1968. (Editors) 42 #2920

* Die Genesis des abstrakten Gruppenbegriffes. Ein Beitrag zur Entstehungsgeschichte der abstrakten Gruppentheorie. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 258 *pp.* (B. H. Neumann (Zbl 199, 291)) 44 #10

Wüst, Rainer

Generalisations of Rellich's theorem on perturbation of (essentially) selfadjoint operators. *Math. Z.* 119 (1971), 276-280. (K. F. Klopfenstein) 43 #7959

Wu Suan Min

(with Īvahnenko, O. G.; Koppa, Ju. G.) Polynomial and logical theory of dynamic systems. I. *Avtomatika* 1970, *no.* 3, 3-18 *(Ukrainian); translated as Soviet Automat. Control* 1970, *no.* 3, 1-13. (R. L. Kashyap) 43 #8405; erratum, 44, p. 1632

Wu Ts'ang-p'u

Two remarks on the saddle point theorems in nonlinear programming. (Chinese) *Shuxue Jinzhan* 6 (1963), 102-106. 32 #3865

Wu Tsen-teh. See Wu Chen-te.

Wu Ts'ung-hsin

Perfect spaces and perfect matrix rings. III. *Acta Math. Sinica* 14 (1964), 319-327 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 347-355. (V. Pták) 31 #1551

Functions of bounded variation on a sequence space. (Russian) *Sci. Sinica* 13 (1964), 1359-1380. (G. G. Lorentz) 31 #5116

Wu Tze-chien. See Wu Tzu-ch'ien.

Wu Tzu-ch'ien

(with Hua Lo-keng; Lin Wei) On the uniqueness of the solution of the Dirichlet problem for a system of elliptic partial differential equations with constant coefficients. *Acta Math. Sinica* 15 (1965), 242-248 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 553-560. (C. H. Wilcox) 33 #1581 (with Hua Lo-keng; Lin Wei) On the classification of the system of differential equations of the second order. *Sci. Sinica* 14 (1965), 461-465. (E. Magenes) 33 #397

Wu Wen-chun

Rotations in Euclidean spaces. (Chinese) *Shuxue Jinzhan* 6 (1963), 96-97. (T. K. Pan) 32 #3058

A theorem on immersion. *Sci. Sinica* 13 (1964), 160. (M. Mahowald) 30 #2520

On the immersion of C^∞-3-manifolds in a Euclidean space. *Sci. Sinica* 13 (1964), 335-336. (M. Mahowald) 30 #2521

On the notion of imbedding classes. *Sci. Sinica* 13 (1964), 681-682. (M. Mahowald) 30 #2518

On the imbedding of manifolds in a Euclidean space. I. *Sci. Sinica* 13 (1964), 682-683. (M. Mahowald) 30 #2519

* A theory of imbedding, immersion, and isotopy of polytopes in a euclidean space. *Science Press, Peking,* 1965. xv + 291 pp. (L. Larmore) 35 #6146

On complex analytic cycles and their real traces. *Sci. Sinica* 14 (1965), 831-839. (E. Brieskorn) 32 #6497

On critical sections of convex bodies. *Sci. Sinica* 14 (1965), 1721-1728. (T. T. Frankel) 34 #2032

Algebraic varieties with dual rational dissections. (Chinese) *Shuxue Jinzhan* 8 (1965), 402-409. (S. T. Hu) 38 #3269

The Chern characteristic classes on an algebraic variety. (Chinese) *Shuxue Jinzhan* 8 (1965), 395-401. (S. T. Hu) 38 #3276

Wu Wen-jun. See Wu Wen-chun.

Wu Xue-mou. See Wu Hsueh-mou.

Wuytack, F.

The pair-semigroup of a linear associative algebra. *Bull. Soc. Math. Belg.* 15 (1963), 389-412. (Drury W. Wall) 30 #1148

Boolean composition algebras. *Simon Stevin* 37 (1963/64), 97-125. (P. C. Hammer) 30 #44

(with Depunt, J.) Operators over *I*-collections of modules. *Bull. Soc. Math. Belg.* 17 (1965), 37-54. (Drury W. Wall) 32 #1227

(with Depunt, J.) Note on *I*-collections of modules. *Bull. Soc. Math. Belg.* 17 (1965), 484-494. (Drury W. Wall) 34 #1362

(with Depunt, J.) "Rings" and "linear algebras" over *I*-collections of modules. *Bull. Soc. Math. Belg.* 20 (1968), 36-65. (S. Elliger) 39 #267

Wuytack, Luc

The existence of a solution in constrained rational approximation problems. *Simon Stevin* 43 (1969/70), 83-99. (A. Magnus) 41 #7347

Quelques remarques concernant les résultats de M. Claude Gilormini. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A935-A938. (E. W. Cheney) 41 #7360

Some remarks on a paper of D. G. Moursund. *SIAM J. Numer. Anal.* 7 (1970), 233-237. (H. Werner) 42 #5423

On a theorem concerning best constrained approximation. *Simon Stevin* 44 (1970/71), 97-101. (A. Magnus) 44 #4437

(with Henrici, Peter; Troesch, B. Andrew) Sloshing frequencies for a half-space with circular or strip-like aperture. (German summary) *Z. Angew. Math. Phys.* 21 (1970), 285-318. (From the authors' summary) 42 #4080

Kolmogoroff's criterion for constrained rational approximation. *J. Approximation Theory* 4 (1971), 120-136. (A. Magnus) 43 #3695

Wuyts, P.

The behaviour on the boundary of the region of convergence of the function represented by an integral of the form $\int_0^{+\infty} e^{-s\lambda(t)}F(t)\,dt$ ($\lambda(t)$ complex). (Dutch) *Simon Stevin* 37 (1963/64), 25-34. (D. Laugwitz) 29 #6264

Quelques remarques sur les sous-espaces localement fermés d'un espace topologique. *Bull. Soc. Math. Belg.* 18 (1966), 17-27. (M. Edelstein) 33 #7986

(with Chacron, J.) Compacité et complétion ordinales. *Bull. Soc. Math. Belg.* 22 (1970), 248-267. (J. E. Vaughan) 44 #5924

Wu Zhen-de. See Wu Chen-te.

Wu Zhong-hai. See Wu Chung-hai.

Wu Zhueng-hai. See Wu Chung-hai.

Wu Zhuo-qun. See Wu Chuo-ch'ün.

Wu Zhuo-ren. See Wu Chuo-jen.

Wu Zi-qian. See Wu Tzu-ch'ien.

Wu Zwao-jen. See Wu Chuo-jen.

Wyatt, Robert E.

(with Parr, Robert G.) One-electron perturbations in self-consistent field theory. *J. Chem. Phys.* 41 (1964), 514-520. (A. Dalgarno) 29 #3146

Wybourne, B. G.

(with Cunningham, M. J.) Quasiparticle formalism and atomi shell theory. *J. Mathematical Phys.* 10 (1969), 2149-2155. (S. Datta Majumdar) 41 #7936

(with Cunningham, M. J.) Quasiparticle formalism and atomi shell theory. II. Mixed configurations. *J. Mathematical Phys.* 11 (1970), 1288-1295. (S. Datta Majumdar) 42 #4100

(with Butler, P. H.) Is the group R_4 an approximate symmetry for many-electron theory? *J. Mathematical Phys.* 11 (1970), 2519-2524. (Virendra Singh) 42 #4099

(with Cleary, J. G.) Statistical group theory and the distribution of angular momentum states. *J. Mathematical Phys.* 12 (1971), 45-52. (J.-L. Calais) 43 #7176

Wycech-Łoś, M.

(with Bartoszyński, R.; Łoś, J.) Contribution to the theor of epidemics. *Proc. Internat. Res. Sem., Statist. Lab., Univ. California, Berkeley, Calif.*, 1963, pp. 1-8. *Springer-Verlag, Ne York,* 1965. (D. J. Daley) 34 #4015

van Wyk, Rodney. See Van Wyk, Rodney.

Wyld, H. W., Jr.

(with Fried, Burton D.) Quantum mechanical kinetic equati *Ann. Physics* 23 (1963), 374-389. (T. Burke (PA 67 #2587)) 32 #3739

Wyler, Armand

Sur certaines singularités d'applications de variétés topologiques. *Comment. Math. Helv.* 42 (1967), 28-48. (A. H. Wallace) 35 #4927

On the conformal groups in the theory of relativity and the unitary representations. *Arch. Rational Mech. Anal.* 31 (1968/69 35-50. (B. K. Datta) 39 #1195

L'espace symétrique du groupe des équations de Maxwell. *C. R. Acad. Sic. Paris Sér. A - B* 269 (1969), A743-A745. (B. K. Datta) 41 #6526

Wyler, Oswald

Green's operators. *Ann. Mat. Pura Appl.* (4) 66 (1964), 252-263. (V. Lakshmikantham) 30 #4170

On second-order recurrences. *Amer. Math. Monthly* 72 (1965), 500-506. 35 #6641

On two-point boundary-value problems. *Ann. Mat. Pura Appl.* (4) 67 (1965), 127-142. (V. Lakshmikantham) 31 #4952

Clans. *Compositio Math.* 17, 172-189 (1965). (R. P. Dilworth) 33 #5533

Sur une note de M. Hukuhara. *Funkcial. Ekvac.* 8 (1965), 1-3. (J. E. Whitesitt) 34 #1332

Operational categories. *Proc. Conf. Categorical Algebra (L Jolla, Calif.,* 1965*), pp.* 295-316. *Springer, New York,* 1966. (J. R. Isbell) 34 #4337

Weakly exact categories. *Arch. Math. (Basel)* 17 (1966), 9-19. (J. R. Isbell) 32 #7625

Direct sums in weakly exact categories. *Arch. Math. (Basel* 17 (1966), 216-225. (J. R. Isbell) 33 #4122

A remark about connecting morphisms. *Arch. Math. (Basel)* 18 (1967), 223-225. (M. Barr) 36 #246

(with Ramaley, J. F.) Cauchy spaces. I. Structure and uniformization theorems. *Math. Ann.* 187 (1970), 175-186. (H. J. Biesterfeldt, Jr.) 42 #1050a

(with Ramaley, J. F.) Cauchy spaces. II. Regular completi and compactifications. *Math. Ann.* 187 (1970), 187-199. (H. J. Biesterfeldt, Jr.) 42 #1050b

Ein Komplettierungsfunktor für uniforme Limesräume. *Math. Nachr.* 46 (1970), 1-12. (D. C. Kent) 44 #985

On the categories of general topology and topological algeb *Arch. Math. (Basel)* 22 (1971), 7-17. (J. R. Isbell) 44 #4767

Top categories and categorical topology. *General Topology and Appl.* 1 (1971), *no.* 1, 17-28. (J. R. Isbell) 43 #8036

A characterization of regularity in topology. *Proc. Amer. Math. Soc.* 29 (1971), 588-590. (K. D. Magill, Jr.) 43 #6865; erratum, 44, p. 1632

Wylie, C. R.

* Foundations of geometry. *McGraw-Hill Book Co., New York,* 1964. viii + 338 *pp.* (G. Pickert) 29 #1567

* Advanced engineering mathematics. Third edition. *McGraw-Hill Book Co., New York-Toronto, Ont.-London,* 1966. xiv + 813 *pp.* (A. A. Armendáriz) 33 #6875

(with Stratopoulos, George M.) A rational twisted sextic with six inflexions which does not belong to a linear complex. *Bull. Soc. Math. Grèce (N.S.)* 8 (1967), *fasc.* 1, 49-54. (P. Du Val) 38 #2137

(with Stratopoulos, George M.) The uniqueness of a certain line involution. *Proc. Amer. Math. Soc.* 19 (1968), 1283-1289. (S. S. Subramanyam) 38 #1588

(with Heath, Steven) Some observations on BL(3, 3). *Univ. Nac. Tucumán Rev. Ser. A* 20 (1970), 117-123. (C. Ballester Pereyra) 44 #6524

Wyman, Bostwick F.

Wildly ramified gamma extensions. *Amer. J. Math.* 91 (1969) 135-152. (E. Inaba) 39 #2726

Wyman, Max

The method of Laplace. *Trans. Roy. Soc. Canada* (4) 2 (1964), *sect.* III, 227-256. (F. W. J. Olver) 38 #6286

Null fields in Einstein-Maxwell field theory. *J. Mathematical Phys.* 6 (1965), 1995-2007. (W. Rindler) 32 #2166

(with Wong, R.) The asymptotic behaviour of $\mu(z, \beta, \alpha)$. *Canad. J. Math.* 21 (1969), 1013-1023. (L. Berg) 39 #5835

Biographical sketch—Leo Moser. *Rocky Mountain J. Math.* 1 (1971), *no.* 2, 255-256. (1 *plate*) (Editors) 42 #7476

ymore, A. Wayne

* A mathematical theory of systems engineering--the elements. *John Wiley & Sons, Inc., New York-London-Sydney*, 1967. xii + 353 *pp.* (B. J. Leon) 40 #5285

Discrete systems and continuous systems. *Advances in Mathematical Systems Theory, pp.* 9-45. *Pennsylvania State Univ. Press, University Park, Pa.*, 1969. (R. Saeks) 40 #3933

yner, Aaron, D.

(with Ash, R. B.) Analysis of recurrent codes. *IEEE Trans. Information Theory* IT-9 (1963), 143-156. (W. W. Peterson) 29 #1088

(with Freiman, C. V.) Optimum block codes for noiseless input restricted channels. *Information and Control* 7 (1964), 398-415. (W. W. Peterson) 30 #971

Capabilities of bounded discrepancy decoding. *Bell Systems Tech. J.* 44 (1965), 1061-1122. (J. Dénes) 31 #4652

Capacity of the product of channels. *Information and Control* 9 (1966), 423-430. (From the author's summary) 33 #7195

Random packings and coverings of the unit n-sphere. *Bell System Tech. J.* 46 (1967), 2111-2118. (R. P. Bambah) 36 #7026

(with Graham, R. L.) An upper bound on minimum distance for a k-ary code. *Information and Control* 13 (1968), 46-52. (Authors' summary) 38 #4202

On the asymptotic distribution of a certain functional of the Wiener process. *Ann. Math. Statist.* 40 (1969), 1409-1418. (D. A. Darling) 39 #2220

On the probability of error using a repeat-request strategy on the additive white gaussian noise channel. *Bell System Tech. J.* 48 (1969), 71-86. (Author's summary) 38 #5513

(with Ziv, Jacob) On communication of analog data from a bounded source space. *Bell System Tech. J.* 48 (1969), 3139-3172. (S. Csibi) 43 #1733

(with Shepp, Lawrence A.; Wolf, Jack K.; Ziv, Jacob) Binary communication over the Gaussian channel using feedback with a peak energy constraint. *IEEE Trans. Information Theory* IT-15 (1969), 476-478. (Authors' summary) 39 #5231

On coding and information theory. *SIAM Rev.* 11 (1969), 317-346. (R. Ahlswede) 41 #5103

(with Wolf, J. K.; Ziv, J.) The channel capacity of the postal channel. *Information and Control* 16 (1970), 167-172. (Authors' summary) 42 #2855

nn, Henry P.

The sequential generation of D-optimum experimental designs. *Ann. Math. Statist.* 41 (1970), 1655-1664. (H. Bandemer) 42 #2606

nn, Peter

An arsenal of ALGOL procedures for complex arithmetic. *Nordisk Tidskr. Informations-Behandling* 2 (1962), 232-255. (E. Frank) 29 #4218

Singular rules for certain non-linear algorithms. *Nordisk Tidskr. Informations-Behandling* 3 (1963), 175-195. (E. Frank) 29 #4219

Note on a converging factor for a certain continued fraction. *Numer. Math.* 5 (1963), 332-352. (E. Frank) 29 #4175

On some recent developments in the theory and application of continued fractions. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 1 (1964), 177-197. (E. Frank) 31 #2527

General purpose vector epsilon algorithm ALGOL procedures. *Numer. Math.* 6 (1964), 22-36. (E. Frank) 29 #4220

Partial differential equations associated with certain non-linear algorithms. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 273-289. (E. Frank) 29 #4217

A note on programming repeated application of the ε-algorithm. *Rev. Française Traitement Information* [*Chiffres*] 8 (1965), 23-62. (Author's summary) 31 #5310

On the computation of certain functions of large argument and parameter. *Nordisk Tidskr. Informations-Behandling* 6 (1966), 228-259. (R. Nicolovius) 34 #3759

Upon systems of recursions which obtain among the quotients of the Padé table. *Numer. Math.* 8 (1966), 264-269. (F. L. Bauer) 35 #6339

An arsenal of Algol procedures for the evaluation of continued fractions and for effecting the epsilon algorighm. (French summary) *Rev. Francaise Traitement Information Chiffres* 9 (1966), 327-362. 34 #3810

On the convergence and stability of the epsilon algorithm. *SIAM J. Numer. Anal.* 3 (1966), *no.* 1, 91-122. (H. Rutishauser) 34 #6996

Transformations to accelerate the convergence of Fourier series. *Blanch Anniversary Volume, pp.* 339-379. *Aerospace Research Lab., U. S. Air Force, Washington, D. C.*, 1967. (J. G. Herriot) 35 #6393

Upon the definition of an integral as the limit of a continued fraction. *Arch. Rational Mech. Anal.* 28 (1967/68), 83-148. (S. J. Taylor) 36 #4204

A general system of orthogonal polynomials. *Quart J. Math. Oxford Ser.* (2) 18 (1967), 81-96. (E. Frank) 35 #1848

Vector continued fractions. *Linear Algebra and Appl.* 1 (1968), 357-395. (E. Frank) 38 #176

Upon the Padé table derived from a Stieltjes series. *SIAM J. Numer. Anal.* 5 (1968), 805-834. (Author's introduction) 39 #1091

Zur Theorie der mit gewissen speziellen Funktionen verknüpften Padéschen Tafeln. *Math. Z.* 109 (1969), 66-70. (L. L. Schumaker) 39 #4565

On an extension of a result due to Pólya. *J. Reine Angew. Math.* 248 (1971), 127-132. (L. R. Sons) 44 #6958

Wypych, Arkadiusz

Control of objects with distributed parameters. A bibliography for the years 1960-1969. (Polish) *Arch. Automat. i Telemech.* 16 (1971), 223-255. (Editors) 44 #3732

Wysocki, R.

(with Kshirsagar, A. M.) Some distribution and moment formulae for the Markov renewal process. *Proc. Cambridge Philos. Soc.* 68 (1970), 159-166. (J. J. Hunter) 41 #7775

Wyss, Walter

(with Araki, Huzihiro) Representations of canonical anti-commutation relations. *Helv. Phys. Acta* 37 (1964), 136-159. (R. Haag) 30 #1752

Xa Dao-xeng. See Hsia Tao-hsing.

Xavier, Airton F. Sampaio
On the product of probabilistic metric spaces. *Portugal. Math.* 27 (1968), 137-147. (B. Schweizer) 43 #5571

Xia Dao-xing. See Hsia Tao-hsing.

Xian Ding-zhang. See Hsien Ting-chang.

Xiao Xiu-ji. See Hsiao Hsiu-chi.

Xiao Xiu-zhi. See Hsiao Hsiu-chi.

Xie, Ting-fan. See Hsieh T'ing-fan.

Xie Dang-jie. See Hsieh Pang-chieh.

Xie Sheng-gang. See Hsieh Sheng-kang.

Xie Ting-fan. See Hsieh T'ing-fan.

Xie Xi-de. See Hsieh Hsi-te.

Xiong, Qing-lai. See Hiong, King-Lai.

Xiong Jin-cheng. See Hsiung Chin-ch'eng.

Xiong Qing-lai. See Hsiung Ch'ing-lai.

Xi Zhen-huan. See Hsi Chen-huan.

Xu Bai-wei. See Hsü Pai-wei.

Xu Bao-lu. See Hsu Pao-lu.

Xu Cheng-hao. See Hsu Ch'eng-hao.

Xufré, Griselda Pascual. See Pascual Xufré, Griselda.

Xu Guang-hui. See Hsü Kuang-hui.

Xu Ji-zhong. See Hsü Chih-chung.

Xu Li-xia. See Hsu Li-hsia.

Xuong, Nguyen-huu
(with Dyson, Freeman J.) $Y = 2$ states in SU(6) theory. *Phys. Rev. Lett.* 13 (1964), 815-817; *erratum, ibid.* 14 (1965), 339. (S. L. Glashow) 30 #5736
(with Dyson, Freeman J.) SU(6) theory and the antiproton-proton annihilation at rest into two mesons. *Phys.. Rev. Lett.* 14 (1965), 654-657. (N. P. Chang) 31 #5534
(with Chan, Chia-hwa) Mass formulas for the 189 multiplet of SU(6). *Phys. Rev.* (2) 142 (1966), 1132-1134. (T. K. Kuo) 33 #1055

Xu Rui-yun. See Hsü Jui-yun.

Xu Shu-run. See Hsu Shu-jun.

Xu Yi-chao. See Hsü I-ch'ao.

Xu Yi-zhao. See Hsü I-ch'ao.

Xu Yong-hua. See Hsü Yung-hua.

Yaari, Menahem E.

On the existence of an optimal plan in a continuous-time allocation process. *Econometrica* 32 (1964), 576-590. (B. Bereanu) 30 #5821

ablonskiĭ, S. V. See Jablonskiĭ, S. V.

ablonsky, Andrew. See Jablonskiĭ, A. I.

abushita, Shin

On Finzi's hypothesis about the long-range behavior of Newtonian force. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 769-775. (D. W. Sciama) 32 #9023

Initial motions of a Jacobi ellipsoid away from its unstable form. *Astrophys. J.* 141 (1965), 232-239. (S. Chandrasekhar) 31 #5672

(with Lyttleton, R. A.) The effect of stellar encounters on planetary motions. *Monthly Notices Roy. Astronom. Soc.* 129 (1965), 105-125. (R. Barrar) 32 #990

abuta, Kôzô

Certains espaces de fonctions à valeurs vectorielles. *Proc. Japan Acad.* 45 (1969), 79-83. (J. L. B. Cooper) 39 #7423

Some remarks on Wiener's quasi-tauberian theorems and the summability of Fourier series. *Tôhoku Math. J.* (2) 22 (1970), 109-116. (F. C. Hsiang) 42 #4955

Quasi-Tauberian theorems, applied to the summability of Fourier series by Riesz's logarithmic means. *Tôhoku Math. J.* (2) 22 (1970), 117-129. (F. C. Hsiang) 42 #4956

Extreme points and outer functions in $H^1(U^n)$. *Tôhoku Math. J.* (2) 22 (1970), 320-324. (K. Yale) 42 #3556

Unicity of the extremum problems in $H^1(U^n)$. *Proc. Amer. Math. Soc.* 28 (1971), 181-184. (J. Kajiwara) 42 #7934

Remarks on extremum problems in H^1. *Tôhoku Math. J.* (2) 23 (1971), 129-137. (J. A. Cima) 44 #5509

chida, Masahiko

(with Fujii, Katsuhiko; Morita, Tatsuya) Study on route searching algorithm of the intelligent robot. (Japanese. English summary) *Systems and Control* 15 (1971), 978-985. (Authors' summary) 44 #3688

ckel, James

(with Graver, Jack, E.) An upper bound for Ramsey numbers. *Bull. Amer. Math. Soc.* 72 (1966), 1076-1079. (J. W. Moon) 33 #7270

Limit theorems for semi-Markov processes. *Trans. Amer. Math. Soc.* 123 (1966), 402-424. (Simeon M. Berman) 33 #1895

A random time change relating semi-Markov and Markov processes. *Ann. Math. Statist.* 39 (1968), 358-364. (D. S. Adorno) 36 #6007

(with Graver, Jack E.) Some graph theoretic results associated with Ramsey's theorem. *J. Combinatorial Theory* 4 (1968), 125-175. (W. Imrich) 37 #1278

A characterization of normal Markov chains. *Proc. Amer. Math. Soc.* 19 (1968), 1464-1468. (U. Krengel) 38 #778

(with Klimko, E. M.) Entropy of first return partitions of a Markov chain. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 251-253. (W. Parry) 42 #466

Coub, K. See Yacoub, Kamal.

coub, K. R.

On finite groups with three independent generators two of which being of odd prime order. *Publ. Math. Debrecen* 11 (1964), 32-38. (D. L. Barnett) 31 #2306

On finite groups with three independent generators two of which being of orders 2 and 4. *Nederl. Akad. Wetensch. Proc. Ser. A.* 68 = *Indag. Math.* 27 (1965), 153-162. (W. Magnus) 31 #249

On finite groups with three independent generators two of which being of orders p and 4. *Nieuw Arch. Wisk.* (3) 13 (1965), 180-191. (O. H. Kegel) 33 #1360

Expansion of three definite integrals in power series. *J. Natur. Sci. and Math.* 6 (1966), 223-230. (W. Sibagaki) 37 #471

On finite groups with three independent generators two of which have distinct odd prime orders. *Publ. Math. Debrecen* 13 (1966), 9-16. (T. R. Berger) 35 #1656

On finite groups with three independent generators two of which being of orders p and p^2. *Nieuw Arch. Wisk.* (3) 15 (1967), 15-30. (R. R. Struik) 36 #2679

On the solutions of the differential equation $d^2y/dx^2 - (x + ax^m)y = 0$. *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 21 (1968), 49-64 (1969). (N. Hayek Calil) 41 #8741

On the higher derivatives of some definite integrals. *J. Natur. Sci. and Math.* 8 (1968), 121-130. (Editors) 38 #346

(with Girgis, N. Ī.) On the solution of the linear differential equation of the second order by means of Airy's integrals. (Slovak and Russian summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 20 (1969), 27-42 (1970). (J. F. Heyda) 42 #4801

Yacoub, Kamal

(with Chu, J. T.) Quadratic order estimates and moments of normal order statistics. *Ann. Inst. Statist. Math.* 18 (1966), 337-341. (M. Katz) 34 #6903

(with Chu, J. T.) Linear order estimates using subsamples. *SIAM J. Appl. Math.* 16 (1968), 162-166. (I. R. Savage) 36 #6085

Relationship between multiple and partial coherence functions. *IEEE Trans. Information Theory* IT-16 (1970), 668-672. (J. R. Blum) 44 #1105

Yacubovich, V. A. See Jakubovič, V. A.

Yadav, B. S.

On a theorem of Titchmarsh. *Publ. Inst. Math. (Beograd) (N.S.)* 2(16) (1962), 87-92 (1963). (J. Blackman) 30 #5116

On the class of Young's continuous functions. II. *Mat. Vesnik* 1(16) (1964), 299-302. (A. C. Zaanen) 32 #4457

On the class of Young's continuous functions. *Amer. Math. Monthly* 73 (1966), 1097-1099. (H. Fast) 34 #2790

Generalizations of certain results on the absolute convergence of Fourier series. *Math. Japon.* 11 (1966), 5-9. (F. C. Hsiang) 34 #4797

(with Ramanujan, P. B.) On hyponormal operators. *Math. Japon.* 12 (1967), 33-34. (J. P. Williams) 36 #5726

A theorem of Titchmarsh on Fourier transforms. *Math. Student* 35 (1967), 99-105 (1969). (K. Chandrasekharan) 42 #4958

On the almost everywhere convergence of Fourier series. *Proc. Cambridge Philos. Soc.* 63 (1967), 703-705. (G. Sunouchi) 35 #4662

On a recent theorem of Carleson. II. *Proc. Cambridge Philos. Soc.* 64 (1968), 1057-1059. (S. Izumi) 37 #5595

(with Ramanujan, P. B.) A note on normal operators. *Mat. Vesnik* 6(21) (1969), 149. (J. A. Erdos) 41 #2443

Contractions of functions and their Fourier series. *Pacific J. Math.* 31 (1969), 827-832. (H. Burkill) 41 #2284

A note on a theorem of Boas. *Mat. Vesnik* 7(22) (1970), 155-157. (H. Burkill) 42 #8152

(with Ramanujan, P. B.) On commutators of operators. *Math. Japon.* 15 (1970), 33-38. (D. R. Arterburn) 43 #2541

Yadin, Micha

(with Avi-Itzhak, B.) A sequence of two servers with no intermediate queue. *Management Sci.* 11 (1964/65), 553-564. (F. G. Foster) 31 #2764

(with Neuts, Marcel F.) The transient behavior of the queue with alternating priorities, with special reference to the waiting times. *Bull. Soc. Math. Belg.* 20 (1968), 343-376. (N. U. Prabhu) 39 #4960

Queueing with alternating priorities, treated as random walk on the lattice in the plane. *J. Appl. Probability* 7 (1970), 196-218. (M. F. Neuts) 40 #6664

Yadrenko, M. Ĭ. See Jadrenko, M. Ĭ.

Yagi, Katsumi

On compact homogeneous affine manifolds. *Osaka J. Math.* 7 (1970), 457-475. (R. L. Bishop) 44 #2167

Yaglom, A. M. See Jaglom, A. M.

Yaglom, I. M. See Jaglom, I. M.

Yagoda, Irwin

(with Kurz, Ludwik) A note on optimum reception in Gaussian noise. *IEEE Trans. Information Theory* IT-15 (1969), 322-323. 40 #3999

Yagola, A. G. See Jagola, A. G.

Yagubov, S. Ya. See Jakubov, S. Ja.

Yahagi, Takashi

Optimum design of linear multivariate sampled-data control systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 732-740. (Author's summary) 42 #5685

Yahav, Joseph A.

(with Bickel, Peter J.) Renewal theory in the plane. *Ann. Math. Statist.* 36 (1965), 946-955. (R. H. Farrell) 31 #817

(with Bickel, P. J.) The number of visits of vector walks to bounded regions. *Israel J. Math.* 3 (1965), 181-186. (R. H. Farrell) 34 #871

On optimal stopping. *Ann. Math. Statist.* 37 (1966), 30-35. (J. Kiefer) 32 #3233

(with Marschak, T. A.) The sequential selection of approaches to a task. *Management Sci.* 12 (1966), 627-647. (Authors' summary) 33 #3768

(with Bickel, Peter J.) Asymptotically pointwise optimal procedures in sequential analysis. *Proc. Fifth Berkeley Sympos. Math. Statist. and Probability (Berkeley, Calif., 1965/66), Vol. I: Statistics, pp.* 401-413. *Univ. California Press, Berkeley, Calif.*, 1967. (J. Kiefer) 35 #3831

(with Bickel, Peter J.) Asymptotically optimal Bayes and minimax procedures in sequential estimation. *Ann. Math. Statist.* 39 (1968), 442-456. (L. J. Gleser) 36 #7263 (with Bickel, Peter J.) On an A.P.O. rule in sequential estimation with quadratic loss. *Ann. Math. Statist.* 40 (1969), 417-426. (S. Blumenthal) 39 #5008

(with Bickel, P. J.) Some contributions to the asymptotic theory of Bayes solutions. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 257-276. (D. V. Lindley) 39 #3629

Yahnin, B. M. See Jahnin, B. M.

Yahya, Q. A. M. M.

Information theory and multiple particle production. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 143-150. (P. Caldirola) 31 #4440

An analogue of the Goldbach problem. (Spanish summary) *Rev. Mat. Hisp.-Amer.* (4) 24 (1964), 66-72. (E. Cohen) 29 #52

On the generalisation of Hilbert's inequality. *Amer. Math. Monthly* 72 (1965), 518-520. (A. E. Danese) 32 #4235

A new expression for Tchebychev polynomials. *Portugal. Math.* 24 (1965), 169-172. (M. Marden) 35 #3108

A theorem on a finite difference operator and its connection with the Poisson distribution. *J. Austral. Math. Soc.* 6 (1966), 25-29. (L. M. Milne-Thomson) 33 #7727

On Hilbert space techniques. *J. Natur. Sci. and Math.* 6 (1966), *no.* 1, 17-19. (D. Babbitt) 39 #1187

On operators in separable Hilbert space with physical interpretation. *J. Natur. Sci. and Math.* 7 (1967), 17-23. (D. Babbitt) 39 #1188

On rational and integral roots of a polynomial. *Portugal. Math.* 27 (1968), 119-122. (Editors) 41 #3444

Yahya, S. M.

P-pure exact sequences and the group of *P*-pure extensions. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 5 (1962), 179-191. (P. J. Hilton) 31 #3493

Kernel of the homomorphism $A' \otimes B' \to A \otimes B$. *J. Natur. Sci. and Math.* 3 (1963), 139-145. (C. W. Curtis) 29 #3536

Functors $L^{n}_{r,1}(A_1,A_2,\dots,A_n)$, $n \geqq 2$, $1 \leqq r \leqq n-2$. *J. Natur. Sci. and Math.* 4 (1964), *no.*1, 133-141. (Editors) 30 #3907

Structure of MacLane's group Trip (A_1,A_2,A_3) and its generalizations. *J. Natur. Sci. and Math.* 4 (1964), *no.* 1, 143-161. (Editors) 30 #3908

On isomorphism $\mathrm{Hom}(\mathrm{Tor}(A,B),C) \oplus \mathrm{Ext}(A \otimes B,C) \approx \mathrm{Hom}(A,\mathrm{Ext}(B,C)) \oplus \mathrm{Ext}(A,\mathrm{Hom}(B,C))$. *J. Natur. Sci. and Math.* 9 (1969), 179-200. (L. Fuchs) 42 #369

Structure of the torsion subgroup of the tensor product $A \quad B$ of abelian groups A and B. *J. Natur. Sci. and Math.* 8 (1968), 105-107. (From the author's introduction) 37 #6376

Impact of homological algebra on the theory of abelian groups. *Panjab Univ. J. Math. (Lahore)* 2 (1969), 11-27. (Editors) 40 #5733

Yajima, Kin'ichi

On the decision method for rules and regulations by propositional logic. (Japanese) *Keiei-Kagaku* 9 (1965/66), 198-203. 35 #6522

(with Nagashima, Hidetake; Sakamoto, Yukio) On an equivalence of convergences in ranked spaces. *Proc. Japan Acad.* 43 (1967), 23-27. (Ky Fan) 35 #4874

(with Sakamoto, Yukio; Nagashima, Hidetake) On the sets of points in the ranked space. *Proc. Japan Acad.* 43 (1967), 941-945. (S. A. Naimpally) 37 #4774

(with Sakamoto, Yukio; Nagashima, Hidetake) On compactness in ranked spaces. *Proc. Japan Acad.* 43 (1967), 946-948. (S. A. Naimpally) 37 #4782

(with Nagashima, Hidetake; Sakamoto, Yukio) On the sets of points in the ranked space. II, III. *Proc. Japan Acad.* 44 (1968), 788-791; *ibid.* 44 (1968), 792-795. (S. A. Naimpally) 39 #909

Yajima, Nobuo

(with Terashima, Yoshinosuke) Radiation by plasma waves in a homogeneous plasma. *Progr. Theoret. Phys.* 30 (1963), 443-459. (H. Weitzner) 30 #5763

(with Outi, Akizi; Taniuti, Tosiya) A model of the dispersive non-linear equation. *Progr. Theoret. Phys.* 35 (1966), 1142-1153. (Authors' summary) 34 #7947

(with Taniuti, Tosiya) Perturbation method for a nonlinear wave modulation. I. *J. Mathematical Phys.* 10 (1969), 1369-1372. (G. Power) 40 #4584

Yajima, Shuzo

(with Kambayashi, Yahiko) Synthesis of two-way logic circuits. *Electron. Commun. Japan* 51 (1968), *no.* 6, 136-144. (B. Hazeltine) 41 #5116

(with Kambayashi, Yahiko) Observable sequential machines and controllable sequential machines. *Electron. Commun. Japan* 52 (1969), *no.* 8, 1-11. (J. Hartmanis) 43 #4576

(with Yasui, Toshio) Some algebraic properties of sets of stochastic matrices. *Information and Control* 14 (1969), 319-357. (A. Paz) 40 #1413

(with Kambayashi, Yahiko; Ohbayashi, Isao) On finite-memory sequential machines. *IEEE Trans. Computers* C-19 (1970), 254-258. (J. Kuntzmann) 40 #8519

(with Yasui, Toshio) Two-state two-symbol probabilistic automata. *Information and Control* 16 (1970), 203-224. (E. Ikaunieks) 43 #4585

Yajima, Takeshi

On simply knotted spheres in R^4. *Osaka J. Math.* 1 (1964), 133-152. (R. H. Fox) 30 #2500

On a characterization of knot groups of some spheres in R^4. *Osaka J. Math.* 6 (1969), 435-446. (S. Kinoshita) 41 #4522

Observability and controllability in sequential machines. (Japanese) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 566-573. 42 #4250

Wirtinger presentations of knot groups. *Proc. Japan Acad.* 46 (1970), *no.* 10, *suppl. to* 46 (1970), *no.* 9, 997-1000. (L. Neuwirth) 43 #7495

Yakabe, Iwao

An extension theorem for semi-valuations of the first kind. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 50-55. (O. F. G. Schilling) 29 #3468

A generalization of Krull's "Schichtensystem". *Mem. Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 1-5. (O. F. G. Schilling) 32 #5736

Yakimiw, E.

Note on the new symmetry of the Racah coefficients. *J. Mathematical Phys.* 12 (1971), 1134. (Author's summary) 44 #361

Yakovlev, V. P. See Jakovlev, V. P.

Yakowitz, Sidney J.

(with Spragins, John D.) On the indentifiability of finite mixtures. *Ann. Math. Statist.* 39 (1968), 209-214. (H. Teicher) 36 #7248

* Mathematics of adaptive control processes. Modern Analytic and Computational Methods in Science and Mathematics, No. 14. *American Elsevier Publishing Co., Inc., New York*, 1969. 158 *pp.* 39 #5209

A consistent estimator for the identification of finite mixtures. *Ann. Math. Statist.* 40 (1969), 1728-1735. (A. F. Ifram) 40 #5065

Yakubik, Yan. See Jakubík, Ján.

Yakubov, S. Ya. See Jakubov, S. Ja.

Yakubovič, V. A. See Jakubovič, V. A.

Yakubovich, V. A. See Jakubovič, V. A.

Yakushev, E. M. See Jakušev, E. M.

Yalavigi, C. C.

A tournament problem. *Math. Student* 31 (1963), 51-64 (1964). (E. N. Gilbert) 29 #1156

Complex Fibonacci series modulo *m*. *Math. Student* 34 (1966), 103-106 (1967). (T. Hayashida) 37 #2679

A mixed doubles tournament problem. *Amer. Math. Monthly* 74 (1967), 926-933. (J. B. Kelly) 36 #6306 (E)

Correction to: "A mixed doubles tournament problem". *Amer. Math. Monthly* 75 (1968), 623. (Editors) 37 #5104

A series of balanced incomplete block designs. *Ann. Math. Statist.* 39 (1968), 681-683. (I. M. Chakravarti) 38 #6721

On identities with digits in reversed order. *Math. Student* 36 (1968), 233-234 (1969). (H. Gupta) 41 #5282

Design of ordinary and mixed tournaments. *J. Indian Math. Soc. (N.S.)* 33 (1969), 73-84 (1970). (V. K. Rohatgi) 43 #73

Kirkman's school girls problem. *Math. Education* 4 (1970), 15-18. (H. Hanani) 42 #7531

A proof for FLT. *Math. Education* 4 (1970), 65-68. (H. Halberstam) 42 #5905

On a theorem of L. Taylor. *Math. Education* 4 (1970), 105. (S. L. Segal) 42 #5899

A conjecture of J. H. Halton. *Math. Education* 4 (1970), A12 A126. (J. H. Jordan) 44 #6595; erratum, 44, p. $163\overline{3}$.

Two Fibonacci conjectures of Dmitri Thoro. *Math. Education* 5 (1971), A4. (R. Finkelstein) 43 #7397

Yale, Keith

Invariant subspaces and projective representations. *Pacific J. Math.* 36 (1971), 557-565. (Edwin Hewitt) 43 #5254

Yale, Paul B.

* Geometry and symmetry. *Holden-Day, San Francisco, Calif.-London-Amsterdam*, 1968. xi + 288 *pp.* (F. Bachmann) 38 #6428

Yalin, M. S.

On the velocity distribution in turbulent shear flow. *Z. Angew. Math. Mech.* 43 (1963), 561-563. (R. G. Deissler) 29 #675

Yamabe, Hidehiko

(See Collected works of Hidehiko Yamabe, 36 #6255)

Yamada, Akio

On the correspondence between potential operators and semigroups associated with Markov processes. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 15 (1970), 230-238. (From the author's summary) 43 #2775

Yamada, Hikoji

On the stability to long waves of two-dimensional laminar jet. *Rep. Res. Inst. Appl. Mech. Kyushu Univ.* 12 (1964), 1-15. (Author's summary) 30 #2780

Stability of laminar shear layer between parallel uniform streams. II. *Rep. Res. Inst. Appl. Mech. Kyushu Univ.* 13 (1965), 1-15. (W. H. Reid) 32 #4984

Yamada, Hiroshi

Rational sections and Chern classes of vector bundles. *J. Math. Kyoto Univ.* 6 (1967), 295-312. (T. Oda) 35 #196

Yamada, Hisao

(with Amoroso, S.) Tessellation automata. *Information and Control* 14 (1969), 299-317. (Authors' summary) 39 #5267

(with Amoroso, S.) A completeness problem for pattern generation in tessellation automata. *J. Comput. System Sci.* 4 (1970), 137-176. (E. Ikaunieks) 41 #9667

(with Amoroso, Serafino) Structural and behavioral equivalences of tessellation automata. *Information and Control* 18 (1971), 1-31. (Authors' summary) 42 #7440

Yamada, Kazuo

(with Watabe, Mitsuo; Ichikawa, Yoshihiko) Remark on the kinetic equation in an unstable plasma. *Progr. Theoret. Phys.* 34 (1965), 383-398. (R. Balescu) 32 #8936

Yamada, Kin-ichi

(with Yoshida, Kozo) An application of Boolean algebra in practical situations. *Hitotsubashi J. Arts Sci.* 5 (1965), 41-57. (Saul Levy) 31 #3233

Hypermatrix and its application. *Hitotsubashi J. Arts Sci.* 6 (1965), 34-44. (N. J. Pullman) 32 #5676

Yamada, Masami

(with Morita, M.; Morita, R.; Tsukamoto, Tatsuo) Clebsch-Gordan coefficients for $j_2 = 5/2$, 3 and 7/2. *Progr. Theoret. Phys. Suppl. No.* 26 (1963), 64-74. 29 #3167

Yamada, Masao

Dispersion theoretical analysis of deuteron problems. *Progr. Theoret. Phys.* 31 (1964), 1094-1108. (Author's summary) 31 #3057

(with Okabayashi, Takao; Tanabe, Kôsai) The Bogoliubov transformation in the field theory. The mass equation. *Progr. Theoret. Phys.* 32 (1964), 619-646. (F. R. Halpern) 32 #830

Bootstrap mechanism and symmetries of strong interactions. *Progr. Theoret. Phys.* 33 (1965), 676-691. (R. H. Capps) 31 #3109

(with Okabayashi, Takao) On the behavior of composite particles. *Progr. Theoret. Phys.* 33 (1965), 705-725. (D. Lurié) 31 #6567

Yamada, Miyuki

Construction of finite commutative z-semigroups. *Proc. Japan Acad.* 40 (1964), 94-98. (Lee W. Anderson) 29 #1274

Inversive semigroups. III. *Proc. Japan Acad.* 41 (1965), 221-224. (J. A. H. Shepperd) 32 #4204

Note on the structure of regular semigroups. *Proc. Japan. Acad.* 42 (1966), 136-140. (H.-J. Hoehnke) 33 #5776

Regular semigroups whose idempotents satisfy permutation identities. *Pacific J. Math.* 21 (1967), 371-392. (J. A. H. Shepperd) 37 #2887

Commutative ideal extensions of null semigroups. *Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci.* 1 (1968), *no.* 1, 8-22. (R. J. Warne) 37 #2888

(with Yoshida, Reikichi) On commutativity of a semigroup which is a semilattice of commutative semigroups. *J. Algebra* 11 (1969), 278-297. (R. J. Warne) 38 #3369

(with Tamura, Takayuki) Note on finite commutative nil-semigroups. *Portugal. Math.* 28 (1969), 189-203. (J. B. Kim) 44 #6886

Generalized Brandt semigroups. *Mem. Fac. Lit. Sci. Shimane Univ. Natur. Sci. No.* 3 (1970), 1-8. (J. B. Kim) 41 #8556

On a regular semigroup in which the idempotents form a band. *Pacific J. Math.* 33 (1970), 261-272. (J. A. H. Shepperd) 43 #2138

0-simple strictly regular semigroups. *Semigroup Forum* 2 (1971), *no.* 2, 154-161. (J. A. H. Shepperd) 44 #6885

Note on exclusive semigroups. *Semigroup Forum* 3 (1971/72), *no.* 2, 160-167. (B. M. Schein (Šaĭn)) 44 #4124

amada, Takashi

$\mathscr{C}$-regenerative phenomena in some stochastic processes. *Kōdai Math. Sem. Rep.* 20 (1968), 76-93. (J. F. C. Kingman) 39 #3597

amada, Toshihiko

On the distribution of the norms of the hyperbolic transformations. *Osaka J. Math.* 3 (1966), 29-37. (S. Konno) 33 #5580

On the Jacobian varieties of Davenport-Hasse curves. *Proc. Japan Acad.* 43 (1967), 407-411. (A. P. Ogg) 37 #213

On the group algebras of metacyclic groups over algebraic number fields. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 179-199. (A. Dress) 39 #7007

On the Davenport-Hasse curves. *J. Math. Soc. Japan* 20 (1968), 403-410. (D. J. Lewis) 37 #1375

On the group algebras of metabelian groups over algebraic number fields. II. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 83-90. (B. Fein) 41 #8544

On the group algebras of metabelian groups over algebraic number fields. I. *Osaka J. Math.* 6 (1969), 211-228. (B. Fein) 41 #8543

On the Schur index of a monomial representation. *Proc. Japan Acad.* 45 (1969), 522-525. (A. Dress) 41 #8545

Characterization of the simple components of the group algebras over the p-adic number field. *J. Math. Soc. Japan* 23 (1971), 295-310. (B. Fein) 43 #4933

Yamada, Toshio

Note on the correspondence between measures and additive functionals of multidimensional Wiener process. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 67-75. (H. P. McKean, Jr.) 32 #6564

(with Watanabe, Shinzo) On the uniqueness of solutions of stochastic differential equations. *J. Math. Kyoto Univ.* 11 (1971), 155-167. (C. P. Tsokos) 43 #4150

(with Watanabe, Shinzo) On the uniqueness of solutions of stochastic differential equations. II. *J. Math. Kyoto Univ.* 11 (1971), 553-563. (C. P. Tsokos) 44 #6071

Yamagata, Hideo

On unified representation of state vectors in quantum field theory. II. *Proc. Japan Acad.* 39 (1963), 569-574. (John G. Taylor) 29 #1903

Exponential differential operator on the pseudo-analytic functions. *Math. Japon.* 9 (1964), 63-70. 31 #2411

The role of mollifiers in Wightman functions. *Proc. Japan Acad.* 40 (1964), 200-205. (H. Araki) 29 #3137

Representation of the state vectors by Gelfand's construction. *Proc. Japan Acad.* 40 (1964), 253-258. (H. Araki) 29 #3138

On the explanation of observables and states. *Proc. Japan Acad.* 40 (1964), 311-316. 31 #3040

C^* algebra and its extension as the set of observables. *Proc. Japan Acad.* 40 (1964), 385-390. (John G. Taylor) 30 #2839

Extension of a certain C^* algebra. *Proc. Japan Acad.* 40 (1964), 498-503. 31 #1936

On the definition of functional integrals. *Proc. Japan Acad.* 40 (1964), 504-509. 31 #1937

E. R. functional integrals. *Proc. Japan Acad.* 40 (1964), 643-648. 31 #1938

The role of mollifers in S matrix theory. *Proc. Japan Acad.* 40 (1964), 728-733. (H. Araki) 31 #4419

The Riemann Lebesgue's theorem and its application to cut-off process. *Proc. Japan Acad.* 40 (1964), 821-826. (H. Araki) 31 #4420

The causality condition in nowhere dense perfect model. *Proc. Japan Acad.* 41 (1965), 73-78. (H. Araki) 31 #4421

Singular cut-off process and Lorentz covariance. *Proc. Japan Acad.* 41 (1965), 377-382. (S. Aramaki) 32 #8781

Singular cut-off process and Lorentz properties. *Proc. Japan Acad.* 41 (1965), 547-552. (H. Araki) 33 #5272

E. R.ν singular cut-off the measure $\nu(x,\delta;\Lambda)$. *Proc. Japan Acad.* 42 (1966), 119-124. (H. Araki) 33 #5273

On limit spaces and the double weak limit. I, II. *Proc. Japan Acad.* 45 (1969), 247-252; *ibid.* 45 (1969), 253-258. (H. J. Biesterfeldt, Jr.) 40 #8012

Yamagishi, Tomejiro

(with Sekiya, Tamotsu) Solutions of Boltzmann equation in hydrogeneous chain reacting system. *Tech. Rep. Osaka Univ.* 19 (1969), 29-37. (A. K. Aziz) 41 #2238

Yamaguchi, Hiroshi

Distinguished normal operators on open Riemann surfaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 221-241. (M. Glasner) 39 #4383

Regular operators and spaces of harmonic functions with finite Dirichlet integral on open Riemann surfaces. *J. Math. Kyoto Univ.* 8 (1968), 169-198. (I. Kra) 38 #1254

Holomorphic functions and open harmonic mappings. *J. Math. Kyoto Univ.* 9 (1969), 381-391. (J. Lelong) 41 #464

Yamaguchi, Itaru

On Fermat's last theorem. *TRU Math.* 3 (1967), 13-18. (W. H. Mills) 36 #6350

Yamaguchi, Kunio

On functions satisfying $R\{f(z)/z\} > 0$. *Proc. Amer. Math. Soc.* 17 (1966), 588-591. (M. S. Robertson) 33 #268

Yamaguchi, Masae

On a J. v. Neumann's theorem. *Proc. Japan Acad.* 41 (1965), 699-701. (G. Maltese) 33 #6358

Calculus in ranked vector spaces. I, II, III, IV, V, VI. *Proc. Japan Acad.* 44 (1968), 207-212; *ibid.* 44 (1968), 213-218; *ibid.* 44 (1968), 307-311; *ibid.* 44 (1968), 312-317; *ibid.* 44 (1968), 424-429; *ibid.* 44 (1968), 430-433. (H. J. Biesterfeldt, Jr.) 37 #4554

Yamaguchi, Mikiko

On the existence of a periodic solution for a certain nonlinear equation. (Japanese) *Sûgaku* 15 (1963/64), 165-167. (Y. Sibuya) 29 #3721

Yamaguchi, Mitsuko

(with Kubota, Nobuko; Iwata, Giiti) Schroedinger equations soluble in terms of confluent hypergeometric functions. *Natur. Sci. Rep. Ochanomizu Univ.* 20 (1969), 39-44. (D. L. Colton) 41 #4021

Yamaguchi, Satoru

On simple Lie groups of infinite dimension. I, II. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 1-32; *ibid.* 18 (1964), 33-43. (A. J. Coleman) 30 #203 (E)

Supplement to the paper "Semi-simplicity in infinite-dimensional Lie groups". *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 168-171. (R. S. Palais) 30 #2108

Correction to: "On simple Lie groups of infinite-dimension. II." *Mem. Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 105-107. (A. J. Coleman) 33 #1407

Yamaguchi, Seiichi

(with Adati, Tyuzi) On Riemannian spaces admitting an intersecting field of *m*-planes. *TRU Math.* 2 (1966), 35-41. (I. Chavel) 37 #3476

(with Matumoto, Kôzi) Notes on infinitesimal affine transformations in AK_n^*-spaces. *TRU Math.* 2 (1966), 42-45. (K. Takano) 36 #5858

(with Miyazawa, Teturo) Some theorems on *K*-contact metric manifolds and Sasakian manifolds. *TRU Math.* 2 (1966), 46-52. (Y. Mutō) 36 #7070

On some transformations in locally product Riemannian spaces. *Tensor (N.S.)* 18 (1967), 227-238. (Y. Tashiro) 36 #3280

On infinitesimal projective transformations in non-Riemannian recurrent spaces. *Tensor (N.S.)* 18 (1967), 271-278. (T. Ohkubo) 35 #6087

(with Matsumoto, Masatsune) Some theorems on tangent bundles of manifolds with a nonlinear connection. *TRU Math.* 3 (1967), 1-7. (K. Yano) 36 #5848

(with Adati, Tyuzi) On some transformations in Riemannian recurrent spaces. *TRU Math.* 3 (1967), 8-12. (A. G. Walker) 36 #7066

(with Matsumoto, Masatsune) On Ricci-recurrent spaces. *Tensor (N.S.)* 19 (1968), 64-68. (Y.-C. Wong) 36 #4482

(with Adati, Tyuzi) Some theorems on subprojective Riemannian spaces. *TRU Math.* 4 (1968), 29-31. (J. K. Shahin) 42 #6750

On hypersurfaces in Sasakian manifolds. *Kōdai Math. Sem. Rep.* 21 (1969), 64-72. (A. Rapcsák) 40 #1945

On a *C*-umbilical hypersurface of a Kählerian manifold with vanishing Bochner curvature tensor. *Tensor (N.S.)* 20 (1969), 95-99. (K. Takano) 39 #2105

On Kählerian spaces admitting a certain skew symmetric tensor field. *TRU Math.* 5 (1969), 31-36. (G. D. Ludden) 42 #6767

On a product-conformal Killing tensor in locally product Riemannian spaces. *Tensor (N.S.)* 21 (1970), 75-82. (Y. Tashiro) 40 #6448

On the integrability of a *D*-Killing equation in a Sasakian space. *Tôhoku Math. J.* (2) 22 (1970), 517-524. (T. Okubo) 43 #1081

(with Sato, Shûichi) On complex hypersurfaces with vanishing Bochner curvature tensor in Kählerian manifolds. *Tensor (N.S.)* 22 (1971), 77-81. (T. Ohkubo) 43 #2649

Yamaguchi, T.

(with Tsukamoto, Y.) On certain positively curved submanifolds in Kaehler manifolds. *Math. Rep. College General Ed. Kyushu Univ.* 7 (1970), *no.* 2, 37-39. (K. Yano) 42 #6766

Yamaguchi, Yoshio

A new symmetry principle in particle physics—trio invariance. *Phys. Lett.* 9 (1964), 281-283. (G. R. Allcock) 29 #984

Trio-spinor formalism and baryon-lepton symmetry. *Progr. Theoret. Phys.* 32 (1964), 337-342. (G. R. Allcock) 32 #904

Electric charges of strongly interacting particles. Is the K^0-meson electrically neutral? *Progr. Theoret. Phys.* 32 (1964), 343-347. (G. R. Allcock) 32 #881

(with Hiida, Kichiro; Ohnuki, Yoshio) General theory of chiral transformations. *Progr. Theoret. Phys. Suppl.* (*Extra number,* 1968), 337-372. (J. M. Charap) 40 #1083

Yamaguti, Kiyosi

On the thoery of Malcev algebras. *Kumamoto J. Sci. Ser. A* 6, 9-45 (1963). (W. G. Lister) 29 #4780

Note on Lie subrings in Malcev rings. *Proc. Japan Acad.* 43 (1967), 925-926. (A. A. Sagle) 37 #2822

On weak representations of Lie triple systems. *Kumamoto J. Sci. Ser. A* 8 (1967/69), 107-114. (A. A. Sagle) 40 #7324

On cohomology groups of general Lie triple systems. *Kumamoto J. Sci. Ser. A* 8 (1967/69), 135-146. (A. A. Sagle) 41 #3548

Yamaguti, Masaya

Some remarks on the Lax-Wendroff finite-difference scheme for nonsymmetric hyperbolic systems. *Math. Comp.* 21 (1967), 611-619. (A. R. Gourlay) 36 #7352

(with Nogi, Tatsuo) An algebra of pseudo difference schemes and its application. *Publ. Res. Inst. Math. Sci. Ser. A* 3 (1967/68), 151-166. (W. J. Sweeney) 37 #1762

(with Nishida, Takaaki) On some global solution for quasilinear hyperbolic equations. *Funkcial. Ekvac.* 11 (1968), 51-57. (J. Smoller) 39 #634

On the pseudo difference schemes. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo, 1969), pp.* 161-170 *Univ. of Tokyo Press, Tokyo,* 1970. (A. R. Gourlay) 41 #9454

Yamakawa, Norihiro

Random combined fractional factorial designs. I. Theory and application of the random combined fractional factorial designs (RACOFFD). *Bull. Math. Statist.* 11 (1964/65), *no.* 3-4, 1-38. (S. Addelman) 32 #4807

Random combined fractional factorial designs. II. Sampling theory from the finite population. *Bull. Math. Statist.* 12 (1966 *no.* 1-2, 1-67. (P. S. Dwyer) 35 #1108

Yamaki, Hiroyoshi

(with Kanazawa, Minoru) On finite solvable groups with $t(G) = 4$ or 5. *J. Fac. Sci. Univ. Tokyo Sect. I* 13, 189-199 (196 (O. H. Kegel) 35 #5511

A characterization of the alternating groups of degrees 12, 13, 14, 15. *J. Math. Soc. Japan* 20 (1968), 673-694. (J. McKay) 38 #1157

A characterization of the simple group Sp(6,2). *J. Math. Soc. Japan* 21 (1969), 334-356. (W. J. Wong) 41 #330

(with Kimura, Hiroshi) Some class of doubly transitive groups of degree *n* and order $4q(n-1)n$ where *q* is an odd number. *J. Math. Soc. Japan* 22 (1970), 388-394. (W. J. Wong) 42 #3162

(with Noda, Ryuzaburo) A characterization of the alternating groups of degrees six and seven. *Osaka J. Math.* 7 (1970), 313-319. (J. H. Walter) 43 #4897

A characterization of the simple groups $\mathfrak{A}_7$ and $\mathfrak{M}_{11}$. *J. Math. Soc. Japan* 23 (1971), 130-136. (Bhama Srinivasan) 43 #341

Yamaki, Noboru

Postbuckling behavior of a simply supported infinite strip under the action of shearing forces. (German and Russian summaries *Z. Angew. Math. Mech.* 44 (1964), 107-117. (Author's summary) 30 #4426

Yamamoto, Hiromichi

On KD-null sets in *N*-dimensional euclidean spaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 59-68. (W. H. Ow) 42 #2017

Yamamoto, Hiroshi

(with Dürr, H. P.; Heisenberg, W.; Yamazaki, Kazuo) Quantum electrodynamics in the nonlinear spinor theory and the value of Sommerfeld's fine-structure constant. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1220-1242. (T. W. B. Kibble) 33 #7012

Yamamoto, Koichi

On a conjecture of Erdős. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 18 (1964), 166-167. (L. Carlitz) 30 #1968

On Gaussian sums with biquadratic residue characters. *J. Reine Angew. Math.* 219 (1965), 200-213. (W. H. Mills) 32 #2390

On the Diophantine equation $\frac{4}{n} = \frac{1}{x} + \frac{1}{y} + \frac{1}{z}$. *Mem Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 37-47. (L. Carlitz) 31 #2203

A necessary condition for the existence of partially balanced incomplete block designs with an *m*-subset association scheme. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 76-98. (E. Seiden) 33 #843

On an orthogonal basis of the eigenspaces associated with partially balanced incomplete block designs of a Latin square type association scheme. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 19 (1965), 99-104. (E. Seiden) 33 #61

On a conjecture of Hasse concerning multiplicative relations of Gaussian sums. *J. Combinatorial Theory* 1 (1966), 476-489. (L. Carlitz) 35 #4175

(with Mann, Henry B.) On canonical bases of ideals. *J. Combinatorial Theory* 2 (1967), 71-76. (H. Cohn) 34 #4247

On Jacobi sums and difference sets. *J. Combinatorial Theory* 3 (1967), 146-181. (B. Gordon) 36 #2581

On the application of half-norms to cyclic difference sets. (With discussion) *Combinatorial Mathematics and its Applications (Proc. Conf., Univ. North Carolina, Chapel Hill, N. C., 1967), pp.* 247-255. *Univ. North Carolina Press, Chapel Hill, N. C.,* 1969. (T. Storer) 41 #1674

Yamamoto, Kunio

Interpretation of high-energy large-angle scattering. *Phys. Rev.* (2) 135 (1964), B567-B569. (Author's summary) 30 #857

(with Patergnani, Giuliano) Shrinkage of the effective core in the scattering of particles of arbitrary spin. *Phys. Rev.* (2) 136 (1964), B836-B839. (Authors' summary) 31 #1920

Shrinkage of effective core and large angle scattering at high energy. *Progr. Theoret. Phys.* 34 (1965), 274-283. (T. Kinoshita) 32 #8757

Yamamoto, Masaru

(with Murakami, Shinichi; Kinoshita, Kozo; Ozaki, Hiroshi) Universal-type logical functions with redundant input variables. *Tech. Rep. Osaka Univ.* 18 (1968), 15-25. 38 #1959 amamoto, Minoru

On Cauchy's problem for a linear system of partial differential equations of first order. *Proc. Japan Acad.* 42 (1966), 555-559. (C. C. Conley) 35 #3201

On the Cauchy problem for Kowalewski systems. *Osaka J. Math.* 4 (1967), 5-13. (J. Smoller) 36 #2956

amamoto, Noboru

An application of functional higher operation. *Osaka J. Math.* 2 (1965), 37-62. (F. P. Peterson) 32 #455 (E)

Correction to: An application of functional higher operation. *Osaka J. Math.* 3 (1966), 185. (Editors) 33 #4927

amamoto, Nobuko. See Iwahori, Nobuko.

amamoto, Sumiyasu

(with Fujii, Yoshio) Analysis of partially balanced incomplete block designs. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 27 (1963), 119-135. (S. S. Shrikhande) 29 #1713

(with Shohōji, Takao) Note on first recurrence and first passage times for renewal processes. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 159-165. (M. Dwass) 31 #2772

Some aspects for the composition of relationship algebras of experimental designs. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 28 (1964), 167-197. (S. S. Shrikhande) 33 #1937

(with Fujii, Yoshio; Hamada, Noboru) Composition of some series of association algebras. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 181-215. (E. Seiden) 35 #2761

(with Fukuda, Teijiro; Hamada, Noboru) On finite geometries and cyclically generated incomplete block designs. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 137-149. (P. Dembowski) 34 #7388

(with Fujikoshi, Yasunori) The linear hypotheses and constraints. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 211-219. (I. Olkin) 38 #1787

(with Fujikoshi, Yasunori) Two-way classification designs with unequal cell frequencies. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 357-370. (I. Olkin) 40 #6695

(with Fujii, Yoshio) Relationship algebras and the analysis of design of experiments. (Japanese) *Sûgaku* 21 (1969), 264-274. (K. Yamamoto) 44 #4850

amamoto, Sunao

On a property of the Hasse's function in the ramification theory. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 96-109. (L. R. McCulloh) 44 #2728

A note on half-norms in the cyclotomic field of 2^n-th roots of unity. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 291-299. (S. I. Gendler) 43 #3233

amamoto, Tetsuro

A computational method for the dominant root of a non-negative irreducible matrix. *Numer. Math.* 8 (1966), 324-333. (F. L. Bauer) 36 #1100

On the extreme values of the roots of matrices. *J. Math. Soc. Japan* 19 (1967), 173-178. (C. G. Cullen) 35 #202

On Lanczos' algorithm for tri-diagonalization. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 259-284. (L. Fox) 39 #6505

On the eigenvalues of compact operators in a Hilbert space. *Numer. Math.* 11 (1968), 211-219. (Chandler Davis) 37 #3394

A note on the spectral mapping theorem. *SIAM J. Math. Anal.* 2 (1971), 49-51. (J. P. Williams) 44 #7339

mamoto, Toshio

(with Hayashi, Satoru) Combination tones of differential type in nonlinear vibratory systems. *Bull. JSME* 7 (1964), 690-698. (L. A. MacColl) 31 #438

(with Ōta, Hiroshi) On the unstable vibrations of a shaft carrying an unsymmetrical rotor. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 515-522. (Authors' summary) 29 #4253

mamoto, Yoshihiko

(with Naganuma, Hidehisu; Doi, K.) Experimental integer theory. (Japanese) *Sûgaku* 18 (1966), 95-103. (K. Masuda) 39 #6856; errata, 43, p. 1695

On unramified Galois extensions of quadratic number fields. *Osaka J. Math.* 7 (1970), 57-76. (J. B. Kelly) 42 #1800

mamoto, Yoshitaka

(with Ezawa, Hiroshi; Nakamura, Koichi) Numerical solution of an unharmonic oscillator eigenvalue problem by Milne's method. *Proc. Japan Acad.* 46 (1970), 168-172. (W. W. Hooker) 43 #5712; erratum, 44, p. 1632

mamura, Ichirô

The proof of the expansion theorem by the hypergeometric polynomials. *Sci. Rep. Tôhoku Univ. Ser. I* 47 (1963), 149-157 (1964). (M. J. O. Strutt) 31 #5990

mamura, Yoshikatsu

On the existence of bounded analytic functions. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 88-102 (1969). (S. Fisher) 41 #483

mamuro, Sadayuki

On fixed point theorems. (Japanese) *Sûgaku* 15 (1963), 105-107. (M. Nagumo) 29 #447

On duality mappings of Beurling-Livingston. (Japanese) *Sûgaku* 15 (1963), 107. 31 #596

On Beurling-Livingstone's theory on the Banach space with duality mapping. *Yokohama Math. J.* 11 (1963), 1-4. (P. C. Deliyannis) 29 #5094

Some fixed point theorems in locally convex linear spaces. *Yokohama Math. J.* 11 (1963), 5-12. (P. C. Deliyannis) 29 #5095

On the spectra of uniformly increasing mappings. *Proc. Japan Acad.* 40 (1964), 740-742. (H. H. Schaefer) 31 #3881

Monotone mappings in topological linear spaces. *J. Austral. Math. Soc.* 5 (1965), 25-35. (P. C. Deliyannis) 31 #5072

(with Neumann, B. H.) Boolean powers of simple groups. *J. Austral. Math. Soc.* 5 (1965), 315-324. (T. R. Berger) 33 #5720

On the ranges of the increasing mappings. *Proc. Japan Acad.* 41 (1965), 212-214. (P. C. Deliyannis) 31 #5103

On near-algebras of mappings on Banach spaces. *Proc. Japan Acad.* 41 (1965), 889-892. (P. Civin) 33 #6433

On the derivatives of increasing mapping. *Yokohama Math. J.* 13 (1965), 1-5. (R. H. Moore) 34 #8244

A characterization of the increasing mappings. *Yokohama Math. J.* 13 (1965), 7-9. (R. H. Moore) 34 #8245

Ideals and homomorphisms in some near-algebras. *Proc. Japan Acad.* 42 (1966), 427-432. (P. Civin) 34 #3361

A note on vector lattices. *J. Austral. Math. Soc.* 7 (1967), 32-38. (P. F. Conrad) 34 #4887

A note on *d*-ideals in some near-algebras. *J. Austral. Math. Soc.* 7 (1967), 129-134. (P. Civin) 35 #3456

On the spaces of mappings on Banach spaces. *J. Austral. Math. Soc.* 7 (1967), 160-164. (P. Civin) 35 #3457

The adjoints of differentiable mappings. *J. Austral. Math. Soc.* 8 (1968), 397-409. (D. Pascali) 38 #1525

(with Palmer, K. J.) A note on finite-dimensional differentiable mappings. *J. Austral. Math. Soc.* 9 (1969), 405-408. (J. D. Stein, Jr.) 39 #4714

A note on semigroups of mappings on Banach spaces. *J. Austral. Math. Soc.* 9 (1969), 455-464. (J. Kist) 39 #4308

On semigroup of differentiable mappings. *J. Austral. Math. Soc.* 10 (1969), 503-510. (J. Kist) 41 #3644

On the semigroup of all continuous linear mappings on a Banach space. *Bull. Austral. Math. Soc.* 4 (1971), 201-203. (S. Kantorovitz) 43 #984

Yamanaka, Ken

* Senkei isô-kûkan to ippan kansû. (Japanese) [Linear topological space and generalized functions] Kyoritsu Lectures in Mathematics, No. 16. *Kyoritsu Shuppan, Tokyo,* 1966. viii + 193 + 5 pp. (I. Namioka) 40 #1771

Yamanaka, Takesi

On the uniqueness of solutions of the Cauchy problem for systems of linear partial differential equations with polynomial coefficients. *Funkcial. Ekvac.* 9 (1966), 219-249. (L. Sarason) 35 #1909

On the Cauchy problem for Kowalevskaja systems of partial differential equations. (With addendum) *Comment. Math. Univ. St. Paul.* 15 (1966/67), 67-89. (C. Corduneanu) 35 #5740

A note on the Cauchy problem for equations with polynomial coefficients. *Funkcial. Ekvac.* 10 (1967), 35-41. (L. Sarason) 37 #1745

On the uniqueness of solutions of a global Cauchy problem. (Japanese) *Sûgaku* 19 (1967), 42-46. (W. Sibagaki) 37 #6598

A refinement of the uniqueness bound of solutions of the Cauchy problem. *Funkcial. Ekvac.* 11 (1968), 75-86. (H. Kumano-go) 39 #618

On the uniqueness of solutions of the global Cauchy problem for a Kowalevskaja system. *J. Math. Soc. Japan* 20 (1968), 567-579. (J. M. Sloss) 39 #619

Yamanaka, Tatsuo

Sonic line of magnetohydrodynamic nozzle flow. *AIAA J.* 2 (1964), 2203-2205. (W. R. Sears) 32 #3424

Yamano, Gôsuke

(with Eda, Yosikazu) On the number of prime factors of integers. *Sci. Rep. Kanazawa Univ.* 14 (1969), 13-20. (J. H. Jordan) 41 #1671

Yamanouchi, Jiro

Some computational methods for best uniform polynomial approximations. (Japanese) *Sûgaku* 15 (1963), 40-48. (S. Hitotumatu) 29 #1473

Yamanouchi, Takahiko

Quantum mechanics. *Mathematics Applied to Physics,* pp. 562-601. *Springer, New York,* 1970. (R. L. Ingraham) 41 #4939

Yamanouchi, Yasufumi

(with Akaike, Hirotugu) On the statistical estimation of frequency response function. *Ann. Inst. Statist. Math.* 14 (1962), 23-56. (E. Parzen) 29 #720

Yamantürk, Şükûfe

(See Argunov, B. I.; Skornjakov, L. A., 37 #5769)

Yamasaki, Hisaiti

An extension of Feynman-Bunge-Corben's relation regarding the position-operator of Dirac electron to arbitrary operators. I. *Progr. Theoret. Phys.* 31 (1964), 322-323. (F. Calogero) 29 #5555

An extension of Feynman-Bunge-Corben's relation regarding the position-operator of Dirac electron to arbitrary operators. II. *Progr. Theoret. Phys.* 31 (1964), 324-325. (F. Calogero) 29 #5556

Yamasaki, Maretsugu

On a capacitability problem raised in connection with linear programming. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 57-73. (M. L. Juncosa) 34 #7823

Note on Kishi's theorem for capacitability. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 217-226. (R. M. Hervé) 35 #3077

On a capacitability problem raised in connection with the Gauss variational problem. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 227-244. (R. M. Hervé) 35 #403

Remarks on the conditional Gauss variational problem. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 67-74. (J. Stoer) 37 #6108

Duality theorems in mathematical programmings and their applications. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 331-356. (Author's review (Zbl 179, 245)) 42 #4195

Relations between capacities and maximum principle. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 33 (1969), 59-69. (M. Nakai) 41 #2041

Some generalizations of duality theorems in mathematical programming problems. *Math. J. Okayama Univ.* 14 (1969/70), 69-81. (From the author's introduction) 44 #6330

Monotone limits in linear programming problems. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 249-258. (W. F. Tyndall) 44 #6331

Yamashita, Kazumi

(with Okamoto, Jiro) Stability of linear interconnected networks. *Electron. Commun. Japan* 52 (1969), *no.* 3, 144-154. (B. Hazeltine) 41 #3180

(with Suzuki, Yutaka; Fujii, Katsuhiko) A method to find transfer function from frequency response data. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 667-674. (Authors' summary) 42 #5660

Yamashita, Masakatsu

(with Ichiraku, Shigeo) On neighborhoods of a 1-connected locally tame set in a PL manifold. *Tensor (N.S.)* 22 (1971), 93-97. (T. B. Rushing) 44 #1036

Yamashita, Seiji

(with Katsura, Shigetoshi; Inoue, Yuji; Kilpatrick, J. E.) Tables of integrals of threefold and fourfold prodycts of associated Legendre functions. *Tech. Rep. Tohoku Univ.* 30 (1965), *no.* 2, 93-163. 33 #309

Yamashita, Shin-ichiro

Numerical solution of algebraic equations. *Information Processing in Japan* 2 (1962), 13-16. (E. R. Hansen) 29 #4188

(with Satake, Seiya) On the calculation limit of roots of algebraic equations. *Information Processing in Japan* 7 (1967), 18-23. (W. M. Kincaid) 38 #4027

Yamashita, Shinji

On some families of analytic functions on Riemann surfaces. *Nagoya Math. J.* 31 (1968), 57-68. (M. H. Heins) 36 #2799

On level curves of harmonic and analytic functions on Riemann Surfaces. *Nagoya Math. J.* 34 (1969), 77-87. (Y. Kusunoki) 39 #2971

A remark on Neuwirth and Newman's paper: "Positive $H^{1/2}$ functions are constants". *Proc. Amer. Math. Soc.* 23 (1969), 147. (S. Merrill) 40 #2881

Some remarks on analytic continuations. *Tôhoku Math. J.* (2) 21 (1969), 328-335. (J. P. King) 40 #319

Continuations of analytic functions of class S and class U. *Nagoya Math. J.* 40 (1970), 33-37. (P. Lappan) 42 #4712

Some theorems on cluster sets of set-mappings. *Proc. Japan Acad.* 46 (1970), 30-32. (C. C. Wu) 42 #3284

Boundary behaviour of functions harmonic in the unit ball. *Proc. Japan Acad.* 46 (1970), 490-493. (E. C. Schlesinger) 44 #1828

On Fatou- and Plessner-type theorems. *Proc. Japan Acad.* 46 (1970), 494-495. (Editors) 44 #5470

Cluster sets of algebroid functions. *Tôhoku Math. J.* (2) 22 (1970), 273-289. (M. Tsuzuki) 42 #3285

Notes on classification of Riemann surfaces. *J. Math. Kyoto Univ.* 11 (1971), 311-313. (M. H. Heins) 44 #2923

Yamato, Hajime

Estimating a change in level of a certain non-stationary time series. *Sci. Rep. Kagoshima Univ. No.* 16 (1967), 35-40. (D. V. Lindley) 37 #3718

On an unbiased linear predictor of a multidimensional non-stationary process. *Rep. Fac. Sci. Kagoshima Univ.* 1 (1968), 33-37. 39 #6474

Yamato, Kazuo

On the action of θ^{2n-1}. *Osaka J. Math.* 6 (1969), 147-163. (M. Mahowald) 41 #4580

Yamauchi, Kenichi

On the 2-part of Artin exponent of finite groups. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 234-240 (1970). (A. Dress) 44 #336

Yamauchi, Kocho

(with Ogawa, Kiyoshi) Das Verfahren zur Bestimmung der zweiten Beschleunigungen in die Schleifbewegung auf einem Drehungskörper enthaltenden Getriebe. *Bull. JSME* 7 (1964), 811-820. (F. Freudenstein) 30 #5529

Yamauchi, Masatoshi

Some identities on the character sum containing $x(x-1)(x-\lambda)$. *Nagoya Math. J.* 42 (1971), 109-113. (F. Oort) 44 #3987

Yamazaki, Ginzo

(with Kinoshita, Eisuke; Kosako, Hideo; Kojima, Yoshiaki) A division method in residue number systems. *Bull. Univ. Osaka Prefecture Ser. A* 17 (1968), *no.* 1, 129-137. (Authors' summary) 38 #6740

Yamazaki, Kazuo

Calculation of meson coupling constants by normalization. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1143-1159. (H. P. Dürr) 33 #1024

(with Dürr, H. P.; Heisenberg, W.; Yamamoto, H.) Quantum electrodynamics in the nonlinear spinor theory and the value of Sommerfeld's fine-structure constant. (Italian summary) *Nuovo Cimento* (10) 38 (1965), 1220-1242. (T. W. B. Kibble) 33 #7012

Yamazaki, Keijiro

On projective representations and ring extensions of finite groups. *J. Fac. Sci. Univ. Tokyo Sect. I* 10, 147-195 (1964). (M. Rosen) 31 #4842

A note on projective representations of finite groups. *Sci. Papers College Gen. Ed. Univ. Tokyo* 14 (1964), 27-36. (C. W. Curtis) 30 #3153

On a duality between gradations and automorphisms of algebras *Sci. Papers. College Gen. Ed. Univ. Tokyo* 14 (1964), 37-50. (C. W. Curtis) 30 #4795

(with Tamura, Jirô; Oikawa, Kôtaro) Examples of minimal parallel slit domains. *Proc. Amer. Math. Soc.* 17 (1966), 283-284. (E. Reich) 32 #4260

Dualities for various kinds of representations. *Sci. Papers College Gen. Ed. Univ. Tokyo* 19 (1969), 13-23. (A. Kleppner) 40 #7369

Yamazaki, Miwae

(with Masuda, Naohiko; Otokozawa, Jun) N/D formalism for scattering amplitudes with unstable particles. *Progr. Theoret. Phys.* 31 (1964), 679-697. (L. F. Cook) 32 #812

(with Mishima, Nobuhiko) Complex singularity and unitarity. *Progr. Theoret. Phys.* 33 (1965), 500-509. (J. N. Islam) 32 #512

Yamazaki, Saburo

Normed ring and unconditional bases in Banach space. *Sci. Papers College Gen. Ed. Univ. Tokyo* 14 (1964), 1-10. (R. Arens) 29 #5123

Normed rings and bases in Banach spaces. *Sci. Papers College Gen. Ed. Univ. Tokyo* 15 (1965), 1-13. (I. G. Amemiya) 31 #2602

Remark to "Normed rings and bases in Banach spaces". *Sci. Papers College Gen. Ed. Univ. Tokyo* 16 (1966), 25-26. (I. G. Amemiya) 34 #593

A note on the proper π-rings of bases in Banach spaces. *Sci. Papers College Gen. Ed. Univ. Tokyo* 20 (1970), 101-104. (J. T. Marti) 42 #6591

Yamazaki, Seisi

(with Masuda, Toyotaka) Regularity of an analytic variety of H. Whitney. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 10, 59-65 (1969). (R. C. Gunning) 42 #2034

Yan, C. C.

(with Wannier, G. H.) Observations on the spherical model of a ferromagnet. *J. Mathematical Phys.* 6 (1965), 1833-1838. (H. W. Lewis) 33 #2331

Relaxation rate spectrum of the linearized Boltzmann equation for hard sphere. *Phys. Fluids* 12 (1969), 2306-2312. (A. Berroir 41 #9540

Yanagawa, S.

(with Moriya, T.) Realization of the Lie group $G(0,1)$ by the function of Landau levels. *J. Mathematical Phys.* 11 (1970), 3244. (Authors' summary) 43 #587

Yanagawa, Takaaki

Brunnian systems of 2-spheres in 4-space. *Osaka J. Math.* 1 (1964), 127-132. (M. L. Curtis) 30 #3469

(with Hosokawa, Fujitsugu) Is every slice knot a ribbon knot *Osaka J. Math.* 2 (1965), 373-384. (S. Kinoshita) 33 #714

On ribbon 2-knots. The 3-manifold bounded by the 2-knots. *Osaka J. Math.* 6 (1969), 447-464. (T. Yajima) 42 #1101

On ribbon 2-knots. II. The second homotopy group of the complementary domain. *Osaka J. Math.* 6 (1969), 465-473. (T. Yajima) 42 #1102

On ribbon 2-knots. III. On the unknotting ribbon 2-knots in S^4. *Osaka J. Math.* 7 (1970), 165-172. (T. Yajima) 42 #5249

agawa, Takashi

Some nonparametric estimators of a location parameter. *Bull. Math. Statist.* 12 (1967), *no.* 3-4, 11-19. (A. P. Basu) 38 #2906

(with Kakeshita, Shin-ichi) Estimates for scale based on *U*-statistics. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 21 (1967), 139-152. (S. Blumenthal) 37 #1042

A small sample robust competitor of Hodges-Lehmann estimate. *Bull. Math. Statist.* 13 (1969), *no.* 3-4, 1-14. 39 #6468

A further comparison of two-sample nonparametric tests for dispersion. I. *Bull. Math. Statist.* 14 (1970), *no.* 1-2, 15-24. (J. Capon) 43 #7004

A note on the efficiency of Tamura's Q. *Bull. Math. Statist.* 14 (1970), *no.* 1-2, 25-30. (J. Capon) 43 #7005

agihara, Hiroki. See Yanagiwara, Hiroki.

agihara, Hiroshi

Corrections and supplement to the paper "Reduction of models over a discrete valuation ring". *J. Math. Kyoto Univ.* 3 (1963/64), 363-368. (P. Samuel) 30 #94

On the connectedness theorem on schemes over local domains. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 29 (1965), 171-179. (A Evyatar (Gutwirth)) 33 #7341

Some remarks on higher derivations of finite rank in a field of a positive characteristic. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 167-171. (G. H. Wenzel) 40 #1375

On immersions of algebraic schemes. (Japanese) *Sûgaku* 20 (1968), 36-40. (T. Oda) 39 #2776

On the structure of bialgebras attached to group varieties. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 29-58. (F. Oort) 42 #4561

(with Kosaki, Kôtaro) On purely inseparable extensions of algebraic function fields. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 69-72. (C. M. Williams) 42 #7666

agihara, Niro

On a problem of Lohwater and Piranian. *J. College Arts Sci. Chiba Univ.* 4 (1963), 5-7. (G. R. MacLane) 31 #4914

On the difference of positive harmonic functions. *J. College Arts Sci. Chiba Univ.* 4 (1965), *no.* 3, 235-239. (E. F. Beckenbach) 36 #3993

On a quotient of functions with finite Dirichlet integrals. *J. College Arts Sci. Chiba Univ.* 4 (1966), *no.* 4, 395. (D. C. Rung) 36 #1622

A remark on imbedding of the unit disk into C^2. (Japanese) *J. College Arts Sci. Chiba Univ.* 5 (1967), *no.* 1, 21-24. (S. Hitotumatu) 38 #4721

Angular cluster sets and oricyclic cluster sets. *Proc. Japan Acad.* 45 (1969), 423-428. (D. C. Rung) 41 #7112

agimoto, Takemi

(with Okamoto, Masashi) Partial orderings of permutations and monotonicity of a rank correlation statistic. *Ann. Inst. Statist. Math.* 21 (1969), 489-506. 41 #2856

ai, Hiroshi

Successive approximation technique applied to continuous line segments curve fitting. *Proc. Fac. Engrg. Keio Univ.* 17 (1964), 25-38. (P. Johansen) 32 #3260

On a class of optimal stopping rule problems. *J. Operations Res. Soc. Japan* 8 (1966), 66-90. (D. Teichroew) 33 #8206

A generalized method to evaluate the Lipschitz constant associated with a class of simultaneous operator systems. *Proc. Fac. Engrg. Keio Univ.* 20 (1967), 93-143. (J. W. Daniel) 40 #3714

amoto, Hiroshi

Quasi-Sasakian hypersurfaces in almost Hermitian manifolds. *Res. Rep. Nagaoka Tech. College* 5 (1969), 149-158. (C. S. Houh) 40 #6472

On submanifolds of co-dimension 2 in a Cayley space. *Res. Rep. Nagaoka Tech. College* 5 (1969), 267-272. (C. S. Houh) 41 #4458

Pseudo-Jacobi fields on Sasakian submanifold. *Res. Rep. Nagaoka Tech. College* 5 (1969), 333-341. (K. Yano) 44 #5899

On horizontal lift of curvature operator. *Res. Rep. Nagaoka Tech. College* 6 (1970), 43-46. (S. Ishihara) 42 #3703

On almost complex quaternion structure. I. *Res. Rep. Nagaoka Tech. College* 6 (1970), 47-55. (W. S. Piper) 42 #6768

On 4-dimensional connected Kaehlerian manifold. *Res. Rep. Nagaoka Tech. College* 6 (1970), 139-141. (B. Cenkl) 43 #1099

On the certain hypersurfaces in locally symmetric spaces. *Res. Rep. Nagaoka Tech. College* 7 (1971), 5-8. (Alan Weinstein) 44 #3248

ase, Mutsuo M.

(with Wigner, Eugene P.) On the positive semidefinite nature of a certain matrix expression. *Canad. J. Math.* 16 (1964), 397-406. (R. F. Rinehart) 29 #114

Yancey, Thomas A.

(with Judge, George G.) The use of prior information in estimating the parameters of economic relationships. *Metroecon.* 21 (1969), 97-140. 42 #1276

Yandl, A. L.

On a question concerning fixed points. *Amer. Math. Monthly* 75 (1968), 152-156. (B. J. Ball) 37 #2214

Yan Dun-jie. See Yen Tun-chieh.

Yanenko, N. N. See Janenko, N. N.

Yáñez de Diego, Ildefonso

(with Rios, Sixto) Programmation polyétapique en concurrence. *C. R. Acad. Sci. Paris* 258 (1964), 5342-5344. (Authors' summary) 30 #3770

(with Rios, Sixto) Programming séquentielle en concurrence. *Research Papers in Statistics (Festschrift J. Neyman), pp.* 289-299. *John Wiley, London,* 1966. (W. H. Fleming) 35 #1359

Yang, A. T.

(with Freudenstein, F.) Application of dual-number quaternion algebra to the analysis of spatial mechanisms. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 300-308. (Authors' summary) 29 #754

Yang, C. P.

(with Yang, C. N.) One-dimensional chain of anisotropic spin-spin interactions. *Phys. Lett.* 20 (1966), 9-10. (Authors' summary) 32 #7118

(with Yang, C. N.) Thermodynamics of a one-dimensional system of bosons with repulsive delta-function interaction. *J. Mathematical Phys.* 10 (1969), 1115-1122. (D. ter Haar) 39 #7918

Yang, Chao-hui

A construction for maximal (+1, -1)-matrix of order 54. *Bull. Amer. Math. Soc.* 72 (1966), 293. (H. J. Ryser) 32 #5678

Some designs for maximal (+1, -1)-determinant of order $n = 2$ (mod 4). *Math. Comp.* 20 (1966), 147-148. 32 #5534

On designs of maximal (+1, -1)-matrices of order $n \equiv 2 \pmod 4$. *Math. Comp.* 22 (1968), 174-180. (John Todd) 37 #1069 (E)

On designs of maximal (+1, -1)-matrices of order $n \equiv 2 \pmod 4$. II. *Math. Comp.* 23 (1969), 201-205. (Editors) 39 #1105

Corrigenda: "On designs of maximal (+1, -1)-matrices of order $n \equiv 2 \pmod 4$)". *Math. Comp.* 23 (1969), 893. (Editors) 41 #1765

On Hadamard matrices constructible by circulant submatrices. *Math. Comp.* 25 (1971), 181-186. (L. D. Baumert) 44 #5235

Yang, Cheng-ning

* Elementary particles. A short history of some discoveries in atomic physics. *Princeton Univ. Press, Princeton, N. J.,* 1961. x + 68 *pp.* (1 *plate*; 1 *table*) (Editors) 30 #5742

(with Byers, N.) Physical regions in invariant variables for n particles and the phase-space volume element. *Rev. Modern Phys.* 36 (1964), 595-609. (P. Singer) 29 #1950

(with Wu, Tai Tsun) Some speculations concerning high-energy large momentum transfer processes. *Phys. Rev.* (2) 137 (1965), B708-B711. (Authors' summary) 32 #2099

(Yang, C. P.) One-dimensional chain of anisotropic spin-spin interactions. *Phys. Lett.* 20 (1966), 9-10. (Authors' summary) 32 #7118

Some exact results for the many-body problem in one dimension with repulsive delta-function interaction. *Phys. Rev. Lett.* 19 (1967), 1312-1315. (S. Deser) 41 #6480

(with Yang, C. P.) Thermodynamics of a one-dimensional system of bosons with repulsive delta-function interaction. *J. Mathematical Phys.* 10 (1969), 1115-1122. (D. ter Haar) 39 #7918

Yang, Chung-chun

* On a class of meromorphic functions and their derivatives. Mathematics Research Center, Report 70-2. NRL Report 6990. *U. S. Naval Research Laboratory, Washington, D. C.,* 1970. 2 *pp.* (J. Clunie) 42 #2001

* (with Gross, Fred) Common right factors of a meromorphic function and its derivatives. Mathematics Research Center, Report 70-7. NRL Report 7138. *Naval Research Laboratory, Washington, D. C.,* 1970. 10 *pp.* (S. M. Shah) 43 #5035

On deficiencies of differential polynomials. *Math. Z.* 116 (1970), 197-204. (D. Drasin) 42 #3279

A generalization of a theorem of P. Montel on entire functions. *Proc. Amer. Math. Soc.* 26 (1970), 332-334. (V. Ganapathy Iyer) 41 #8676

Applications of the Tumura-Clunie theorem. *Trans. Amer. Math. Soc.* 151 (1970), 659-662. (W. K. Hayman) 42 #3280

* On meromorphic functions with three almost linear values. Mathematics Research Center, Report 71-1. NRL Report 7214. *Naval Research Laboratory, Washington, D. C.,* 1971. i + 10 *pp.* (J. Winkler) 43 #2219

On the entire solutions of certain class of non-linear differential equations. *J. Math. Anal. Appl.* 33 (1971), 644-649. (D. A. Lutz) 43 #5088

On the dependence of the zeros of an entire function and its factorization. *J. Math. Anal. Appl.* 35 (1971), 374-380. (Fred Gross) 43 #3448

Yang, Chung-how

On binomial distribution. *Bull. Math. Soc. Nanyang Univ.* 1965, 71-75. (A. Fuchs) 34 #8453

Chi-square test on hypergeometric variates. *Bull. Math. Soc. Nanyang Univ.* 1965, 76-80. (A. Fuchs) 34 #5217

Sequential tests of hypotheses on finite population. *Nanta Math.* 2 (1968), 36-42. 38 #5343

A sequential test on Student's t distribution. *Nanta Math.* 2 (1968), 43-46. 38 #5344

Yang, Chung-tao

(with Connell, E. H.; Montgomery, Deane) Compact groups in E^n. *Ann. of Math.* (2) 80 (1964), 94-103. (John Stallings) 29 #189 (E)

(with Connell, E. H.; Montgomery, Deane) Correction to "Compact groups in E^n". *Ann. of Math.* (2) 81 (1965), 194. (Editors) 29 #5956

On involutions of the five sphere. *Topology* 5 (1966), 17-19. (G. E. Bredon) 32 #3068

(with Montgomery, Deane) Differentiable actions on homotopy seven spheres. *Trans. Amer. Math. Soc.* 122 (1966), 480-498. (M. A. Kervaire) 34 #820

(with Montgomery, Deane) Differentiable transformation groups on homotopy spheres. *Michigan Math. J.* 14 (1967), 33-46. (G. E. Bredon) 36 #904

(with Montgomery, Deane) Differentiable actions on homotopy seven spheres. II. *Proc. Conf. on Transformation Groups (New Orleans, La., 1967), pp. 125-134. Springer, New York,* 1968. (H.-T. Ku) 39 #6353

(with Montgomery, Deane) Free differentiable actions on homotopy spheres. *Proc. Conf. on Transformation Groups (New Orleans, La., 1967), pp. 175-192. Springer, New York,* 1968. (H.-T. Ku) 39 #6354

(with Montgomery, Deane) Differentiable pseudo-free circle actions. *Proc. Nat. Acad. Sci. U.S.A.* 68 (1971), 894-896. (L. Lininger) 43 #4066

Yang, Gou-sheng

On a certain result of Z. Opial. *Proc. Japan Acad.* 42 (1966), 78-83. (T. H. Hildebrandt) 33 #5819

Examples on absolute continuity. (Chinese summary) *Tamkang J. No.* 7 (1968), 359-362. (F. Brooks) 39 #4332

(with Shawyer, B. L. R.) On the relation between the Abel-type and Borel-type methods of summability. *Proc. Amer. Math. Soc.* 26 (1970), 323-328. (W. Beekmann) 41 #8872

Yang, Grace Lo

Contagion in stochastic models for epidemics. *Ann. Math. Statist.* 39 (1968), 1863-1889. (P. M. Lee) 38 #5315

Yang, H. N.

Extension of the proper three-dimensional analogue of Desargues' theorem to hyperspace. (Chinese summary) *Tamkang J. No.* 7 (1968), 331-344. (H. Brauner) 39 #3381

Yang, Jaw-ching

A theorem on the semigroup of binary relations. *Proc. Amer. Math. Soc.* 22 (1969), 134-135. (G. Szász) 39 #2897

Yang, Jeong Sheng

(with Bagley, R. W.) On k-spaces and function spaces. *Proc. Amer. Math. Soc.* 17 (1966), 703-705. (W. W. Comfort) 33 #693

Almost periodicity and B-equicontinuity in topological dynamics. *Proc. Cambridge Philos. Soc.* 65 (1969), 27-32. (R. W. Bagley) 38 #1662

Yang, Kung-wei

On some finite groups and their cohomology. *Pacific J. Math.* 14 (1964), 735-740. (K. Kondo) 29 #3521

A note on reflexive Banach spaces. *Proc. Amer. Math. Soc.* 18 (1967), 859-861. (P. Civin) 35 #5905

Chromatic number of Cartesian sum of two graphs. *Proc. Amer. Math. Soc.* 19 (1968), 617-618. (H. V. Kronk) 36 #6321

Completion of normed linear spaces. *Proc. Amer. Math. Soc.* 19 (1968), 801-806. (J. Sonner) 37 #1962

Yang, Kwang-tzu

Laminar free-convection wake above a heated vertical plate. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 131-138. (D. W. Dunn) 29 #856

Yang, T. B. See Yang Tsung-p'an.

Yang, Ta-lun

(with Rosenberg, R. M.) On the vibrations of a particle in the plane. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 2 (1967), 1-25. 37 #6061

(with Rosenberg, R. M.) On forced vibrations of a particle in the plane. (French, German and Russian summaries) *Internat. J. Non-Linear Mech.* 3 (1968), 47-63. 37 #6062

Symmetry properties and normal mode vibrations. *Internat. J. Non-Linear Mech.* 3 (1968), 367-381. (Author's summary) 38 #1341

Yang, Y. Y.

(with Halperin, Max; Rastogi, Suresh C.; Ho, Irwin) Shorter confidence bands in linear regression. *J. Amer. Statist. Assoc.* 62 (1967), 1050-1067. (E. H. Lehman, Jr.) 35 #7509

Yang Ben-fu. See Yang Pen-fu.

Yang Ch'ao-ch'ün

Boundary properties of Markov integral functionals and boun ary properites of birth and death processes. (Chinese) *Shuxue Jinzhan* 7 (1964), 397-424. (C. C. Wu) 40 #5030

A class of birth and death processes. *Acta Math. Sinica* 15 (1965), 9-31 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 305-329. (J. F. C. Kingman) 32 #3138

Notes on the construction theory for birth and death proces *Acta Math. Sinica* 15 (1965), 174-187 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 479-494. (P. E. Ney) 32 #8401

Boundary conditions for the system of Kolmogorov backward differential equations. *Acta Math. Sinica* 16 (1966), 429-452 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 449-474. (G. E. H. Reuter) 36 #971

Properties of birth and death processes. (Chinese) *Shuxue Jinzhan* 9 (1966), 365-380. 39 #3613

Yang Chao-qun. See Yang Ch'ao-ch'ün.

Yang Chao-zun. See Yang Ch'ao-ch'ün.

Yang Chün-hui

On the automorphisms of the unitary groups over fields of characteristic 2. *Acta Math. Sinica* 15 (1965), 582-597 *(Chines translated as Chinese Math. - Acta* 7 (1965), 304-319. (J. Menni 33 #7425

A remark on "On the automorphisms of the unitary groups ove fields of characteristic 2". *Acta Math. Sinica* 16 (1966), 136 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 144. (Mennicke) 33 #7426

Yang Cong-ren. See Yang Ts'ung-jen.

Yang Dong-ping. See Yang Tung-p'ing.

Yang En-huo

Note on the uniqueness of solutions of differential equatio (Chinese) *Shuxue Jinzhan* 8 (1965), 183-186. (R. Liu) 37 #3079

Yang Guang-jun. See Yang Kuang-chün.

Yang Jun-hui. See Yang Chün-hui.

Yang Kuang-chün

The Dirichlet problem for a class of equations of degenerat elliptic type. *Acta Math. Sinica* 12 (1962), 40-46 *(Chinese); tr lated as Chinese Math.* 3 (1963), 42-48. (R. C. MacCamy) 29 #37

Singular Cauchy problems for hyperbolic equations with non-characteristic degenerating line. (Chinese) *Shuxue Jinzhan* 7 (1964), 425-430. (T.-P. Lin) 38 #418

Yang Le

The multiple values of meromorphic functions and of combinations of functions. *Acta Math. Sinica* 14 (1964), 428-437 *(Chine translated as Chinese Math. - Acta* 5 (1964), 460-470. (Hari Shankar) 30 #1248

Sur les valeurs quasi-exceptionnelles des fonctions holomor *Sci. Sinica* 13 (1964), 879-885. (Hari Shankar) 30 #3981

(with Chang Kuang-hou) Recherches sur la normalité des familles de fonctions analytiques à des valeurs multiples. I. Un nouveau critère et quelques applications. *Sci. Sinica* 14 (1965 1258-1271. (Y. Komatu) 33 #7550

(with Hsiao Hsiu-chi) Sur les points de Borel des fonction méromorphes et de leurs dérivées. *Sci. Sinica* 14 (1965), 1556-1573. (C. Tanaka) 32 #7748

(with Chang Kuang-hou) Recherches sur la normalité des familles de fonctions analytiques à des valeurs multiples. II. Généralisations. *Sci. Sinica* 15 (1966), 433-453. (Y. Komatu) 34 #2843

Yang Li-ming

A new treatment of pairing force in nuclei. I. Pairing corre lation between like nucleons in strongly deformed nuclei. *Sci. Sinica* 13 (1964), 563-570. (Author's summary) 30 #1793

Yang Lo. See Yang Le.

Yang Pen-fu

(with Wan Che-hsien) Notes on finite geometries and the construction of PBIB designs. III. Some "Anzahl" theorems in unitary geometry over finite fields and their applications. *Sci. Sinica* 13 (1964), 1006-1007. (P. Dembowski) 30 #2392c

(with Wan Che-hsien) Studies in finite geometries and the construction of incomplete block designs. III. Some "Anzahl" theorems in unitary geometry over finite fields and their applic tions. *Acta Math. Sinica* 15 (1965), 533-544 *(Chinese); translat as Chinese Math. - Acta* 7 (1965), 252-264. (P. Dembowski) 32 #6313c

Studies in finite geometries and the construction of incomplete block designs. VII. An association scheme with many associate classes constructed from maximal completely isotropic subspaces in symplectic geometry over finite fields. *Acta Math. Sinica* 15 (1965), 812-825 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 547-560. (P. Dembowski) 34 #1914a

Studies in finite geometries and the construction of incomplete block designs. VIII. An association scheme with many associate classes constructed from maximal completely isotropic subspaces in unitary geometry over finite fields. *Acta Math. Sinica* 15 (1965), 826-841 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 561-576. (P. Dembowski) 34 #1914b

g Ts'ung-jen

Characterization of inner product spaces. (Chinese) *Shuxue Jinzhan* 6 (1963), 197-200. (Ky Fan) 32 #4527

g Tsung-p'an

* Pan-hsü-k'ung-chien yin-lun. (Chinese) [Introduction to partially ordered spaces] *Sciences Press, Peking,* 1964. vi + 153 *pp.* (Ky Fan) 33 #7829

Some remarks on the Baire property. III. *Acta Math. Sinica* 15 (1965), 495-499 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 211-216. (Chr. Y. Pauc) 32 #7693

(with Tung K'o-ch'eng) Two theorems on lattice-ordered rings. *Acta Math. Sinica* 15 (1965), 574-581 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 296-303. (I. G. Amemiya) 32 #7610

On the F. Riesz operators. (Chinese) *Shuxue Jinzhan* 8 (1965), 83-89. (Ky Fan) 35 #2171

g Tung-p'ing

(with Hu Shih-hua) On primitive recursiveness. *Acta Math. Sinica* 14 (1964), 607-618 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 653-665. (R. W. Ritchie) 33 #5480

On creative sets and productive sets. (Chinese) *Shuxue Jinzhan* 8 (1965), 414-416. (C.-C. Chang) 36 #4990

Primitive recursive simple sets and their stratification. (Chinese) *Shuxue Jinzhan* 9 (1966), 97-101. (C.-C. Chang) 36 #3652

Zong-ban. See Yang Tsung-p'an.

Zong-pan. See Yang Tsung-p'an.

, Kentaro

(with Okubo, Tanjiro) Fibred spaces and non-linear connections. *Ann. Mat. Pura Appl.* (4) 55 (1961), 203-243. (A. Kawaguchi) 32 #6387

(with Sumitomo, T.) Differential geometry on hypersurfaces in a Cayley space. *Proc. Roy. Soc. Edinburgh Sect. A* 66 (1962/64), 216-231 (1965). (T. J. Willmore) 30 #4230

(with Davies, E. T.) On the tangent bundles of Finsler and Riemannian manifolds. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 211-228. (H. Rund) 29 #2755

(with Nomizu, Katsumi) On infinitesimal transformations preserving the curvature tensor field and its covariant differentials. *Ann. Inst. Fourier (Grenoble)* 14 (1964), *fasc.* 2, 227-236. (J. A. Wolf) 30 #4227

(with Ishihara, Shigeru) On hyperconnections. *Bull. Calcutta Math. Soc.* 56 (1964), 109-133. (W. F. Pohl) 35 #6077

(with Nomizu, Katsumi) Une démonstration simple d'un théorème sur le groupe d'holonomie affine d'un espace de Riemann. *C. R. Acad. Sci. Paris* 258 (1964), 5334-5335. (H. W. Guggenheimer) 29 #562

(with Ledger, A. J.) Linear connections on tangent bundles. *J. London Math. Soc.* 39 (1964), 495-500. (A. M. Rodrigues) 29 #6440

(with Ishihara, Shigeru) On integrability conditions of a structure f satisfying $f^3 + f = 0$. *Quart. J. Math. Oxford Ser.* (2) 15 (1964), 217-222. (R. J. Crittenden) 29 #3991

(with Ishihara, Shigeru) f structure that satisfies $f^3 + f = 0$. (Japanese) *Sûgaku* 16 (1964/65), 65-69. (I. Mogi) 38 #3797

* Differential geometry on complex and almost complex spaces. International Series of Monographs in Pure and Applied Mathematics, Vol. 49. *A Pergamon Press Book. The Macmillan Co., New York,* 1965. xii + 326 *pp.* (S. Kobayashi) 32 #4635

(with Obata, Morio) Sur le groupe de transformations conformes d'une variété de Riemann dont le scalaire de courbure est constant. *C. R. Acad. Sci. Paris* 260 (1965), 2698-2700. (E. A. Feldman) 31 #697

(with Ledger, A. J.) The tangent bundle of a locally symmetric space. *J. London Math. Soc.* 40 (1965), 487-492. (A. M. Rodrigues) 34 #3480

Closed hypersurfaces with constant mean curvature in a Riemannian manifold. *J. Math. Soc. Japan* 17 (1965), 333-340. (A. Nijenhuis) 32 #1657

(with Ako, Mitsue) Vector fields in Riemannian and Hermitian manifolds with boundary. *Kōdai Math. Sem. Rep.* 17 (1965), 129-157. (Y. Tashiro) 32 #3018

(with Ishihara, Shigeru) Almost contact structures induced on hypersurfaces in complex and almost complex spaces. *Kōdai Math. Sem. Rep.* 17 (1965), 222-249. (M. Kurita) 32 #6464

(with Ishihara, Shigeru) Fibred spaces and projectable tensor fields. *Perspectives in Geometry (Essays in Honor of V. Hlavatý), pp.* 468-481. *Indiana Univ. Press, Bloomington, Ind.,* 1966. (F. Brickell) 34 #1955

(with Ishihara, Shigeru) Structure defined by f satisfying $f^3 + f = 0$. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 153-166. *Nippon Hyoronsha, Tokyo,* 1966. (R. N. Sen) 36 #815

(with Nomizu, Katsumi) Some results related to the equivalence problem in Riemannian geometry. *Proc. U.S.-Japan Seminar in Differential Geometry (Kyoto,* 1965*), pp.* 95-100. *Nippon Hyoronsha, Tokyo,* 1966. (Editors) 37 #2136

(with Kobayashi, Shoshichi) Prolongations of tensor fields and connections to tangent bundles. I. General theory. *J. Math. Soc. Japan* 18 (1966), 194-210. (K. Nomizu) 33 #1814

(Kobayashi, Shoshichi) Prolongations of tensor fields and connections to tangent bundles. II. Infinitesimal automorphisms. *J. Math. Soc. Japan* 18 (1966), 236-246. (R. J. Crittenden) 34 #743

(with Ishihara, Shigeru) The f-structure induced on submanifolds of complex and almost complex spaces. *Kōdai Math. Sem. Rep.* 18 (1966), 120-160. (S. Kobayashi) 34 #735 (E)

(with Ishihara, Shigeru) Differential geometry in tangent bundle. *Kōdai Math. Sem. Rep.* 18 (1966), 271-292. (E. T. Davies) 34 #8322

(with Ishihara, Shigeru) Correction to: "The f-structure induced on submanifolds of complex and almost complex spaces". *Kōdai Math. Sem. Rep.* 18 (1966), 386. (S. Kobayashi) 34 #6683

(with Mutô, Yosio) Homogeneous contact structures. *Math. Ann.* 167 (1966), 195-213. (W. M. Boothby) 35 #919

On Riemannian manifolds with constant scalar curvature admitting a conformal transformation group. *Proc. Nat. Acad. Sci. U.S.A.* 55 (1966), 472-476. (C.-C. Hsiung) 33 #677

Tensor fields and connections on cross-sections in the tangent bundle of a differentiable manifold. *Proc. Roy. Soc. Edinburgh Sect. A* 67 (1966/67), 277-288 (1968). (K. Nomizu) 37 #3466

Notes on hypersurfaces in a Riemannian manifold. *Canad. J. Math.* 19 (1967), 439-446. (A. Gray) 35 #2248

(with Ishihara, Shigeru) Fibred spaces with projectable Riemannian metric. *J. Differential Geometry* 1 (1967), 71-88. (F. Brickell) 36 #826

(with Ledger, A. J.) Almost complex structures on tensor bundles. *J. Differential Geometry* 1 (1967), 355-368. (T. Okubo) 37 #2149

(with Ishihara, Shigeru) Horizontal lifts of tensor fields and connections to tangent bundles. *J. Math. Mech.* 16 (1967), 1015-1029. (R. L. Bishop) 35 #924

(with Patterson, E. M.) Vertical and complete lifts from a manifold to its cotangent bundle. *J. Math. Soc. Japan* 19 (1967), 91-113. (A. G. Walker) 34 #6684

(with Patterson, E. M.) Horizontal lifts from a manifold to its cotangent bundle. *J. Math. Soc. Japan* 19 (1967), 185-198. (A. G. Walker) 35 #3590

(with Kobayashi, Shoshichi) Prolongations of tensor fields and connections to tangent bundles. III. Holonomy groups. *J. Math. Soc. Japan* 19 (1967), 486-488. (R. J. Crittenden) 36 #2084

(with Ishihara, Shigeru) Almost complex structures induced in tangent bundles. *Kōdai Math. Sem. Rep.* 19 (1967), 1-27. (R. H. Szczarba) 36 #4589

(with Ishihara, Shigeru) Differential geometry of fibred spaces. *Kōdai Math. Sem. Rep.* 19 (1967), 257-288. (T. Okubo) 36 #7074

(with Ishihara, Shigeru) Fibred spaces with invariant Riemannian metric. *Kōdai Math. Sem. Rep.* 19 (1967), 317-360. (T. Okubo) 36 #7075

(with Nomizu, Katsumi) Some results related to the equivalence problem in Riemannian geometry. *Math. Z.* 97 (1967), 29-37. (S. Kobayashi) 37 #2137

Tensor fields and connections on cross-sections in the cotangent bundle. *Tôhoku Math. J.* (2) 19 (1967), 32-48. (T. J. Willmore) 35 #4847

(with Ako, Mitsue) Notes on covariant almost analytic vector fields. *Tôhoku Math. J.* (2) 19 (1967), 187-197. (C. B. Allendoerfer) 36 #4590

(with Sawaki, Sumio) Riemannian manifolds admitting a conformal transformation group. *J. Differential Geometry* 2 (1968), 161-184. (M. do Carmo) 38 #1636

(with Ishihara, Shigeru) Normal circle bundles of complex hypersurfaces. *Kōdai Math. Sem. Rep.* 20 (1968), 29-53. (S. Kobayashi) 37 #3487

(with Ishihara, Shigeru) Differential geometry of tangent bundles of order 2. *Kōdai Math. Sem. Rep.* 20 (1968), 318-354. (J. Eells) 38 #625

(with Ako, Mitsue) On certain operators associated with tensor fields. *Kōdai Math. Sem. Rep.* 20 (1968), 414-436. (T. J. Willmore) 38 #2687

(with Goldberg, Samuel Irving) Variétés globalement repérées. *C. R. Acad. Sci. Paris Sér. A - B* 269 (1969), A920-A922. (S. Kobayashi) 41 #974

(with Ishihara, Shigeru) On a problem of Nomizu-Smyth on a normal contact Riemannian manifold. *J. Differential Geometry* 3 (1969), 45-58. (M. Okumura) 40 #3472

(with Mutô, Yosio) Homogeneous contact manifolds and almost Finsler manifolds. *Kōdai Math. Sem. Rep.* 21 (1969), 16-45. (E. T. Davies) 39 #2109

Generalizations of the connection of Tzitzéica. *Kōdai Math. Sem. Rep.* 21 (1969), 167-174. (P. Drăgilă) 40 #851

(with Konishi, Mariko) Integral formulas for closed hypersurfaces. *Kōdai Math. Sem. Rep.* 21 (1969), 335-349. (J. K. Shahin) 40 #4903 (with Ishihara, Shigeru) Invariant submanifolds of an almost contact manifold. *Kōdai Math. Sem. Rep.* 21 (1969), 350-364. (M. Okumura) 40 #1946

(with Ishihara, Shigeru) Pseudo-umbilical submanifolds of codimension 2. *Kōdai Math. Sem. Rep.* 21 (1969), 365-382. (Y. Katsurada) 40 #1947

(with Okumura, Masafumi) Integral formulas for submanifolds of codimension 2 and their applications. *Kōdai Math. Sem. Rep.* 21 (1969), 463-471. (Y. Katsurada) 41 #968

Notes on submanifolds in a Riemannian manifold. *Kōdai Math. Sem. Rep.* 21 (1969), 496-509. (C.-C. Hsiung) 41 #4452

(with Goldberg, Samuel I.) Integrability of almost cosymplectic structures. *Pacific J. Math.* 31 (1969), 373-382. (T. Ohkubo) 40 #4905

Riemannian manifolds admitting a conformal transformation group. *Proc. Nat. Acad. Sci. U.S.A.* 62 (1969), 314-319. (J. R. Vanstone) 42 #2390

* Integral formulas in Riemannian geometry. Pure and Applied Mathematics, No. 1. *Marcel Dekker, Inc., New York,* 1970. ix + 156 *pp.* (T. Nagano) 44 #2174

(with Okubo, Tanjiro) On tangent bundles with Sasakian metrics of Finslerian and Riemannian manifolds. *Ann. Mat. Pura Appl.* (4) 87 (1970), 137-162. (E. T. Davies) 44 #2187

Integral formulas for submanifolds and their applications. *Canad J. Math.* 22 (1970), 376-388. (K. Nomizu) 41 #4453

(with Goldberg, Samuel I.) Manifolds admitting a non-homothetic conformal transformation. *Duke Math. J.* 37 (1970), 655-670. (T. Nagano) 42 #3708

(with Obata, Morio) Conformal changes of Riemannian metrics. *J. Differential Geometry* 4 (1970), 53-72. (G. Tsagas) 41 #6113

(with Goldberg, Samuel I.) Affine hypersurfaces of complex spaces. *J. London Math. Soc.* (2) 2 (1970), 241-250. (K. T. Hahn) 41 #7723

(with Goldberg, Samuel I.) Noninvariant hypersurfaces of almost contact manifolds. *J. Math. Soc. Japan* 22 (1970), 25-34. (T. Ohkubo) 40 #6467

(with Konishi, Mariko) Submanifolds of codimension 2 of a Euclidean space. *Kōdai Math. Sem. Rep.* 22 (1970), 65-76. (M. Okumura) 42 #2396

(with Blair, David E.; Ludden, Gerald D.) Induced structures on submanifolds. *Kōdai Math. Sem. Rep.* 22 (1970), 188-198. (W. S. Piper) 42 #6745

(with Goldberg, Samuel I.) Polynomial structures on manifolds. *Kōdai Math. Sem. Rep.* 22 (1970), 199-218. (A. Gray) 42 #2380

(with Sawaki, Sumio) Riemannian manifolds admitting an infinitesimal conformal transformation. *Kōdai Math. Sem. Rep.* 22 (1970), 272-300. (C. B. Allendoerfer) 42 #2391

(with Okumura, Masafumi) On (f,g,u,v,λ)-structures. *Kōdai Math. Sem. Rep.* 22 (1970), 401-423. (G. D. Ludden) 43 #2638

(with Sawaki, Sumio) Notes on conformal changes of Riemannian metrics. *Kōdai Math. Sem. Rep.* 22 (1970), 480-500. (C.-C. Hsiung) 43 #5461

On Riemannian manifolds admitting an infinitesimal conformal transformation. *Math. Z.* 113 (1970), 205-214. (T. Nagano) 41 #6114

On semi-symmetric metric connection. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1579-1586. (E. Bompiani) 43 #1078

(with Goldberg, Samuel I.) Globally framed *f*-manifolds. *Illinois J. Math.* 15 (1971), 456-474. (T. Ohkubo) 43 #3978

(with Chen, Bang-yen) Integral formulas for submanifolds and their applications. *J. Differential Geometry* 5 (1971), 467-477. (Y. Katsurada) 44 #5895

(with Chen, Bang-yen) On submanifolds of submanifolds of a Riemannian manifold. *J. Math. Soc. Japan* 23 (1971), 548-554. (K. Nomizu) 43 #6840

(with Blair, D. E.; Ludden, G. D.) On the intrinsic geometry of $S^n \times S^n$. *Math. Ann.* 194 (1971), 68-77. (W. S. Piper) 44 #4675

(with Chen, Bang-yen) Minimal submanifolds of a higher dimensional sphere. *Tensor (N.S.)* 22 (1971), 369-373. (Y. Katsurada) 44 #4699

Yanoš, Lyudvik. See Janoš, Ludvík.

Yanoši, L. See Jánossy, Lajos.

Yanov, Yu. I. See Janov, Ju. I.

Yanovitskii, E. G. See Janovickiĭ, E. G.

Yanovskaya, Ye. B. See Janovskaja, E. B.

Yanowitch, Michael

Gravity waves in a heterogeneous incompressible fluid. *Comm. Pure Appl. Math.* 15 (1962), 45-61. (Chia-Shun Yih) 29 #3072

(See also Misjurkeev, I. V., 34 #8679)

Yanpol'skii, A. R. See Janpol'skiĭ, A. R.

Yan Shi-jian. See Yen Shih-chien.

Yan Zhi-da. See Yen Chih-ta.

Yan Zi-jun. See Yen Tzu-chün.

Yao, Jing-shing

(with Kudô, Akio) Some considerations on the multiple inverse sampling method. *Bull. Math. Statist.* 11 (1964), *no.* 1- 63-77. (Benjamin Epstein) 30 #5451

A two-stage stratified sampling utilizing auxiliary information. *Tamkang J. Math.* 1 (1970), *no.* 1, 1-4. (M. E. Thompson) 41 #9417

A two-stage stratified sampling utilizing auxiliary information. II. *Tamkang J. Math.* 1 (1970), *no.* 2, 121-128. (M. E. Thompson) 43 #4210

Yao, K.

(with Thomas, J. B.) On bandlimited properties of Fourier transform pairs of some special functions. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 299-309. *Univ. Illinois, Urbana, Ill.,* 1965. (Authors' summary) 40 #638

Yao, Tsu

(with Kuo, T. K.) Mass formulas in the SU(6) symmetry sche *Phys. Rev. Lett.* 13 (1964), 415-417. (Editors) 31 #1049

(with Kuo, T. K.) Electromagnetic mass splitting in the SU(6) symmetry scheme. *Phys. Rev. Lett.* 14 (1965), 79-81. (R. Prosser) 32 #8848a

Unitary irreducible representations of SU(2,2). I, II. *J. Mathematical Phys.* 8 (1967), 1931-1954; *ibid.* 9 (1968), 1615-162 (Author's summaries) 43 #1536

Unitary irreducible representations of SU(2,2). III. Reduc with respect to an iso-Poincaré subgroup. *J. Mathematical Phys.* 12 (1971), 315-342. (Author's summary) 43 #1537

Yao, Ying

An approximate degrees of freedom solution to the multivari Behrens-Fisher problem. *Biometrika* 52 (1965), 139-147. (J. Wis 36 #4712

Yao, York-peng

Quantization of electrodynamics in the axial gauge. *J. Mat ematical Phys.* 5 (1964), 1319-1321. (B. Zumino) 30 #4506a

Spin and statistics with an electromagnetic field. *J. Mathematical Phys.* 5 (1964), 1322-1326. (B. Zumino) 30 #4506b

General gauge invariance of massive electrodynamics and the existence of a massless scalar particle. *Phys. Rev.* (2) 138 (1965), B698-B702. (S. Deser) 32 #3571

(with Patil, Sharashchandra H.; Tomozawa, Yukio) Reciprocit normality of $K^0 - \bar{K}^0$ mass matrix, and CP violation in weak interactions. *Phys. Rev.* (2) 142 (1966), 1041-1047. (From the autho introduction) 33 #1047

(with Williams, D. N.) Analytic form factors for any spin. *Phys. Rev. D* (3) 1 (1970), 1380-1388. (G. Barton) 41 #4937

Yap, Hian Poh

(with Teh, H. H.) Some construction problems of homogeneous graphs. *Bull. Math. Soc. Nanyang Univ.* 1964, 164-196. (F. Hara 31 #4739

Generalization of Mertens' theorem on multiplication of series. *Bull. Math. Soc. Nanyang Univ.* 1965, 81-82. (L. Leindle 34 #1747

Remarks on a paper of U. C. Guha and K. H. Toh: "On *CA*-clas of quasigroups". *Nanta Math.* 1 (1966/67), 29-32. (W. A. McWor 37 #334

A note on unconditionally convergent series. *Amer. Math. Monthly* 74 (1967), 1235-1236. 36 #4192

The number of maximal sum-free sets in C_p. *Nanta Math.* 2 (1968), 68-71. (H. B. Mann) 38 #3345

Some addition theorems of group theory. *Nanta Math.* 2 (1968 72-79. (H. B. Mann) 38 #3346

Maximal sum-free sets of group elements. *J. London Math. So* 44 (1969), 131-136. (K. Honda) 38 #1167

A class of point-symmetric graphs. *Nanta Math.* 3 (1969), *no* 2, 100-109. (Author's summary) 42 #121

(with Diananda, Palahenedi Hewage) Maximal sum-free sets of elements of finite groups. *Proc. Japan Acad.* 45 (1969), 1-5. (K. Honda) 39 #6968

Structure of maximal sum-free sets in C_p. *Acta Arith.* 17 (1970), 29-35. (K. Honda) 42 #370

Some addition theorems of group theory with applications to graph theory. *Canad. J. Math.* 22 (1970), 1185-1195. (J. Turner) 42 #1897

A simple recurrence relation in finite abelian groups. *Fibonacci Quart.* 8 (1970), *no.* 3, 255-263. (A. Peluso) 41 #3387

Maximal sum-free sets in finite abelian groups. *Bull. Austr Math. Soc.* 4 (1971), 217-223. (Ti Yen) 43 #2081

Yap, Leonard Y. H.

Some remarks on convolution operators and $L(p,q)$ spaces. *Duke Math. J.* 36 (1969), 647-658. (R. E. Edwards) 40 #3184

On the impossibility of representing certain functions by convolutions. *Math. Scand.* 26 (1970), 132-140. (R. C. Busby) 41 #7380

(with Martin, John C.) The algebra of functions with Fourie transforms in L^p. *Proc. Amer. Math. Soc.* 24 (1970), 217-219. (T. S. Liu) 40 #646

Ideals in subalgebras of the group algebras. *Studia Math.* 35 (1970), 165-175. (T. S. Liu) 42 #4968

p Kim Yew

Generalized measures on a ring of sets. *Nanta Math.* 2 (1968), 84-92. (K. Krickeberg) 38 #6016

ppa, Yu. A. See Jappa, Ju. A.

qub, Adil

The structures of pre-p^k-rings and generalized pre-p-rings. *Amer. Math. Monthly* 71 (1964), 1010-1014. (B. Brainerd) 30 #2048

(with Marcus, Marvin) Compounds of skew-symmetric matrices. *Canad. J. Math.* 16 (1964), 473-478. (R. F. Rinehart) 29 #1221

On the ring-logic character of certain rings. *Pacific J. Math.* 14 (1964), 741-747. (B. Brainerd) 29 #1232

Ring-logics and certain classes of rings. *Ann. Scuola Norm. Sup. Pisa* (3) 19 (1965), 101-105. (B. Brainerd) 31 #2273

Ring-logics and residue class rings. *Pacific J. Math.* 15 (1965), 1465-1469. (C.-C. Chang) 33 #152

On certain classes of—and an existence theorem for—primal clusters. *Ann. Scuola Norm. Sup. Pisa* (3) 20 (1966), 1-13. (F. M. Sioson) 33 #7292

(with Johnsen, E. C.; Outcalt, D. L.) A commutativity theorem for noncommutative Jordan rings. *Math. Japon.* 11 (1966), 167-176. (C. Yohe) 35 #1647

Semi-primal categorical independent algebras. *Math. Z.* 93 (1966), 395-403. (P. J. Higgins) 34 #121

Primal clusters. *Pacific J. Math.* 16 (1966), 379-388. (G. Grätzer) 32 #5568

Some classes of ring-logics. *Pacific J. Math.* 19 (1966), 189-195. (B. Brainerd) 34 #2615

Primal clusters and local binary algebras. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 111-119. (F. M. Sioson) 36 #1379

On the equational interdefinability of certain operations. *Portugal. Math.* 26 (1967), 125-131. (J. Froemke) 40 #1324

(with Outcalt, D. L.) A generalization of Wedderburn's theorem. *Proc. Amer. Math. Soc.* 18 (1967), 175-177. (W. G. Leavitt) 34 #2619

(with Johnsen, E. C.; Outcalt, D. L.) An elementary commutativity theorem for rings. *Amer. Math. Monthly* 75 (1968), 288-289. (M. L. Tomber) 37 #1417

(with Moore, H. G.; Pierce, S. J.) Commutativity in rings of zero divisors. *Amer. Math. Monthly* 75 (1968), 392. (Timon Anderson) 37 #4113

(with Moore, H. G.) An existence theorem for semi-primal algebras. *Ann. Scuola Norm. Sup. Pisa* (3) 22 (1968), 559-570. (I. Sussman) 39 #1383

(with Johnsen, E. C.; Outcalt, D. L.) Commutativity theorems for nonassociative rings with a finite division ring homomorphic image. *Pacific J. Math.* 27 (1968), 325-332. (M. L. Tomber) 38 #5868

(with Moore, H. G.) A generalization of Boolean rings. *Portugal. Math.* 27 (1968), 213-216. (P. Samuel) 42 #1854

(with Moore, H. G.) On the structure of certain free algebras. *Math. Japon.* 14 (1969), 105-110. (J. Froemke) 43 #7390

(with Outcalt, D. L.) A commutativity theorem for rings. *Bull. Austral. Math. Soc.* 2 (1970), 95-99. (W. G. Leavitt) 41 #3511

(with Outcalt, D. L.) A commutativity theorem for power-associative rings. *Bull. Austral. Math. Soc.* 3 (1970), 75-79. (M. L. Tomber) 42 #4603

(with Johnsen, E. C.; Outcalt, D. L.) A generalization of a theorem of Albert on finite division rings. *J. Algebra* 14 (1970), 106-111. (C. Tsai) 40 #5676

(with Moore, H. G.) On the commutator ideal of certain rings. *Portugal. Math.* 29 (1970), 119-124. (E. P. Armendariz) 43 #6264

(with Putcha, Mohan S.) Rings satisfying monomial identities. *Proc. Amer. Math. Soc.* 32 (1972), 52-56. (G. Krause) 44 #6757

qub, Fawzi M.

(with Dwinger, Ph.) Free extensions of sets of Boolean algebras. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 567-577. (R. Sikorski) 30 #1072

(with Tamura, Takayuki) Examples related to attainability of identities on lattices and rings. *Math. Japon.* 10 (1965), 35-39. (H.-J. Hoehnke) 33 #79

A theorem on the existence of the generalized free α-products of Boolean algebras. *Nieuw Arch. Wisk.* (3) 16 (1968), 179-183. (M. J. Mączyński) 39 #112 (E)

Erratum to: "A theorem on the existence of generalized free α-products of Boolean algebras". *Nieuw Arch. Wisk.* (3) 17 (1969), 150. (Editors) 40 #4178

(with Hanna, A.) Duality in modules over principal ideal domains. *Acta Math. Acad. Sci. Hungar.* 22 (1971/72) 203-206. (V. C. Cateforis) 44 #5308

qub, Jill C. D. S.

On two theorems of Lüneburg. *Arch. Math. (Basel)* 17 (1966), 485-488. (H. Lüneburg) 34 #3425

The non-existence of finite projective planes of Lenz-Barlotti class III 2. *Arch. Math. (Basel)* 18 (1967), 308-312. (H. Lüneburg) 36 #783

On projective planes of Lenz-Barlotti class I 6. *Math. Z.* 95 (1967), 60-70. (G. Pickert) 34 #6630

A geometric characterization of generalized Moulton planes. *Math. Z.* 99 (1967), 385-391. (S. Priess-Crampe) 36 #784

On the group of projectivities on a line in a finite projective plane. *Math. Z.* 104 (1968), 247-248. (W. Jónsson) 37 #3442

(with Krier, Nicholas) On infinite anti-cartesian groups. *Arch. Math. (Basel)* 20 (1969), 324-328. (F. A. Sherk) 39 #5746

Yar, Ali

(See Aleksandrov, P. S., 37 #5274)

Yaris, Robert

Time-dependent perturbation-variation method. I, II, III. *J. Chem. Phys.* 39 (1963), 2474-2477; *ibid.* 40 (1964), 667-668; *ibid.* 43 (1965), 3528-3529. (A. Dalgarno) 33 #6063

Linked-cluster theorem and unitarity. *J. Chem. Phys.* 41 (1964), 2419-2421. (Author's summary) 29 #4524

Cluster expansions and the unitary group. *J. Chem. Phys.* 42 (1965), 3019-3024. (H. Primas) 33 #5311

Yarlagadda, R.

An application of tridiagonal matrices to network synthesis. *SIAM J. Appl. Math.* 16 (1968), 1146-1162. (P. L. Hammer) 40 #164

Yarmush, David Leon

(with Aronson, Raphael) Transfer-matrix method for gamma-ray and neutron penetration. *J. Mathematical Phys.* 7 (1966), 221-237. (S. Ueno) 32 #8958

Yarnold, James K.

The minimum expectation in χ^2 goodness of fit tests and the accuracy of approximations for the null distribution. *J. Amer. Statist. Assoc.* 65 (1970), 864-886. 42 #3948

Yaroslavtsev, A. A. See Jaroslavcev, A. A.

Yarovoĭ, M. S. Yarov. See Jarov-Jarovoĭ, M. S.

Yarov-Yarovoĭ, M. S. See Jarov-Jarovoĭ, M. S.

Yastrebenetskiy, M. A. See Jastrebeneckiĭ, M. A.

Yasuda, Hiroshi

On extended Lie systems. I. *Tensor (N.S.)* 19 (1968), 121-128. (F. Brickell) 37 #854

On extended Lie systems. II. *Tensor (N.S.)* 21 (1970), 117-123. (F. Brickell) 41 #951

Yasuda, Jun

A note on the kernel function. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 9, 74-76 (1965). (P. Lelong) 33 #4313

Yasuda, Norikazu

Estimation of the inbreeding coefficient from phenotype frequencies by a method of maximum likelihood scoring. (French summary) *Biometrics* 24 (1968), 915-935. 38 #3994

(with Maruyama, Takeo) Use of graph theory in computation of inbreeding and kinship coefficients. (French summary) *Biometrics* 26 (1970), 209-219. (Authors' summary) 42 #3966

Yasuda, Reiko

Une démonstration de l'existence d'une fonction analytique sur une surface de Riemann. *J. Math. Soc. Japan* 17 (1965), 358-364. (J. Kajiwara) 35 #4409

Yasuda, Yasoi

A note on the core of a cooperative game without side payment. *Naval Res. Logist. Quart.* 17 (1970), 143-149. (J. H. Blau) 43 #8388

Yasuda, Yutaka

(with Fujisawa, Toshio) Optimization of linear control systems with amplitude constraint and quadratic performance index. *J. Math. Anal. Appl.* 19 (1967), 386-400. (H. J. Kushner) 35 #3509

(with Fujisawa, Toshio) An iterative procedure for solving the time-optimal regulator problem. *SIAM J. Control* 5 (1967), 501-512. (J. Warga) 36 #5791

Yasugi, Mariko

Interpretations of set theory and ordinal number theory. *J. Symbolic Logic* 32 (1967), 145-161. (A. Lévy) 36 #4983

(with Takeuti, G.) Reflection principles of subsystems of analysis. *Contributions to Math. Logic (Colloquium, Hannover, 1966)*, *pp.* 255-273. *North-Holland, Amsterdam,* 1968. (G. Kreisel) 39 #3970

Cut elimination theorem for second order arithmetic with the Π^1_1-comprehension axiom and the ω-rule. *J. Math. Soc. Japan* 22 (1970), 308-324. 42 #1653

Yasuhara, Ann

The Post-Lineal theorems for arbitrary recursively enumerable degrees of unsolvability. *Notre Dame J. Formal Logic* 6 (1965), 54-72. (Walter Oberschelp) 33 #7250

A remark on Post normal systems. *J. Assoc. Comput. Mach.* 14 (1967), 167-171. (K. Appel) 35 #4104

The solvability of the word problem for certain semigroups. *Proc. Amer. Math. Soc.* 26 (1970), 645-650. (F. B. Cannonito) 42 #3156

Yasuhara, Mitsuru

Syntactical and semantical properties of generalized quantifiers. *J. Symbolic Logic* 31 (1966), 617-632. (Arnold Oberschelp) 35 #4090

An axiomatic system for the first order language with an equi-cardinality quantifier. *J. Symbolic Logic* 31 (1966), 633-640. (Arnold Oberschelp) 35 #4091

The cut elimination theorem in the unary second order language. *Proc. Amer. Math. Soc.* 17 (1966), 1069-1073. (H. B. Curry) 34 #4117

On minimal ordinal types of theories. *Nederl. Akad. Wetensch. Proc. Ser. A* 71 = *Indag. Math.* 30 (1968), 87-94. (M. Taĭclin (RŽMat 1968 #9 A80)) 41 #3261

Incompleteness of L_p languages. *Fund. Math.* 66 (1969/70), 147-152. (Arnold Oberschelp) 41 #5204

On a problem of Mostowski on finite spectra. *Z. Math. Logik Grundlagen Math.* 17 (1971), 17-20. (G. Asser) 44 #2597

Yasui, Toshiko

Prime ideals in the direct product of semigroups. (Japanese. English summary) *Bull. Tokyo Gakugei Univ.* (4) 18 (1967), *no.* 2, 8-10. (T. Tamura) 36 #1567

Yasui, Toshio

(with Yajima, Shuzo) Some algebraic properties of sets of stochastic matrices. *Information and Control* 14 (1969), 319-357. (A. Paz) 40 #1413

(with Yajima, Shuzo) Two-state two-symbol probabilistic automata. *Information and Control* 16 (1970), 203-224. (E. Ikaunieks) 43 #4585

Yasui, Yoshikazu

(with Hanai, Sitiro) A note on unions of strongly paracompact spaces. *Mem. Osaka Gakugei Univ. B Natur. Sci. No.* 15 (1966), 172-177. (S. Swaminathan) 36 #2120

Some generalizations of V. Trnkova's theorem on unions of strongly paracompact spaces. *Proc. Japan Acad.* 43 (1967), 17-22. (C. R. Borges) 35 #4884

Unions of strongly paracompact spaces. *Proc. Japan Acad.* 43 (1967), 263-268. (C. R. Borges) 35 #7297

Unions of strongly paracompact spaces. II. *Proc. Japan Acad.* 44 (1968), 27-31. (C. R. Borges) 37 #5849

Some characterizations of strongly paracompact spaces. *Proc. Japan Acad.* 46 (1970), 134-137. (J. E. Vaughan) 42 #8447

On the spaces with the σ-star finite open basis. *Proc. Japan Acad.* 46 (1970), 496-501. (G. H. M. Thomas) 44 #2191

Yasuura, Kamenosuke

(with Itakura, Tokuya) Resonance in a slightly tilted waveguide. *Electron. Commun. Japan* 48 (1965), 1-13. (Y. Hayashi) 34 #8727

Yasyulenis, A. I. See Jasiulionis, A.

Yataev, M. See Jataev, M.

Yates, C. E. M.

Three theorems on the degrees of recursively enumerable sets. *Duke Math. J.* 32 (1965), 461-468. (P. Young) 31 #4721

A minimal pair of recursively enumerable degrees. *J. Symbolic Logic* 31 (1966), 159-168. (P. Young) 34 #5677

On the degrees of index sets. *Trans. Amer. Math. Soc.* 121 (1966), 309-328. (K. Appel) 32 #2326

Recursively enumerable degrees and the degrees less than $0^{(1)}$. *Sets, Models and Recursion Theory (Proc. Summer School Math. Logic and Tenth Logic Colloq., Leicester, 1965), pp.* 264-271. *North-Holland, Amsterdam,* 1967. (J. R. Shoenfield) 36 #2504

Arithmetical sets and retracing functions. *Z. Math. Logik Grundlagen Math.* 13 (1967), 193-204. (J. R. Shoenfield) 37 #6184

On the degrees of index sets. II. *Trans. Amer. Math. Soc.* 135 (1969), 249-266. (G. E. Sacks) 39 #2637

Initial segments of the degrees of unsolvability. I. A survey. *Mathematical Logic and Foundations of Set Theory (Proc. Internat. Colloq., Jerusalem, 1968), pp.* 63-83. *North-Holland, Amsterdam,* 1970. (J. R. Shoenfield) 42 #4400

Initial segments of the degrees of unsolvability. II. Minimal degrees. *J. Symbolic Logic* 35 (1970), 243-266. (J. R. Shoenfield) 43 #53

(See also Logic Colloquium '69, 42 #7479)

A note on arithmetical sets of indiscernibles. *Logic Colloquium '69 (Proc. Summer School and Colloq., Manchester, 1969), pp.* 443-451. *North-Holland, Amsterdam,* 1971. (James D. Halpern) 43 #4668

Yates, D. L.

A theorem on perfect Singer difference sets. *Proc. Cambridge Philos. Soc.* 63 (1967), 591-593. (B. Gordon) 36 #59

Another proof of a theorem on difference sets. *Proc. Cambridge Philos. Soc.* 63 (1967), 595-596. (B. Gordon) 36 #60

Yatsenko, A. A. See Jacenko, A. A.

Yau, Shing-tung

On the fundamental group of manifolds of non-positive curvature. *Proc. Nat. Acad. Sci. U.S.A.* 67 (1970), 509. (C.-C. Hsiung) 42 #8423

On the fundamental group of compact manifolds of non-posit curvature. *Ann. of Math.* (2) 93 (1971), 579-585. (J. A. Wolf) 44 #956

Yau, Stephen S.

The sensitivity of a traffic network. *J. Franklin Inst.* 27 (1964), 371-382. (Author's summary) 30 #958

(with Hakimi, S. L.) Distance matrix of a graph and its realizability. *Quart. Appl. Math.* 22 (1965), 305-317. (O. Ore) 32 #2344

(with Schumpert, J. M.) Stochastic approximation nonparametric training procedures for multi-category pattern classifiers. *Proc. Fifth Annual Allerton Conf. on Circuit and System Theory (Monticello, Ill., 1967), pp.* 792-799. *Univ. of Illinois, Urbana, Ill.,* 1967. (Authors' summary) 41 #8171

Generation of all Hamiltonian circuits, paths, and centers a graph, and related problems. *IEEE Trans. Circuit Theory* CT-1 (1967), 79-81. (D. Corneil) 42 #5845

(with Depalma, G. F.) Two-way shift-register realizations sequential machines. *Proc. Sixth Annual Allerton Conf. on Circ and System Theory (Monticello, Ill., 1968), pp.* 722-731. *Univ. Illinois, Urbana, Ill.,* 1968. (Authors' summary) 41 #8175

(with Bossen, D. C.) Redundant residue polynomial codes. *Information and Control* 13 (1968), 597-618. (R. Alter) 39 #25

(with Ehrich, Roger W.) A class of high-speed decoders for linear cyclic binary codes. *IEEE Trans. Information Theory* IT- (1969), 113-117. (Authors' summary) 39 #2509

(with Orsic, M.) Fault diagnosis and repair of cutpoint cellular arrays. *IEEE Trans. Computers* C-19 (1970), 259-262. (A. D. Booth) 40 #6811

(with Garnett, James M., III; Ben-Israel, Adi) A hyperpowe iterative method for computing matrix products involving the generalized inverse. *SIAM J. Numer. Anal.* 8 (1971), 104-109. (Authors' summary) 43 #7048

Yavin, Yaakov

(with Sivan, R.) The bounded energy optimal control for a class of distributed parameter systems. *Internat. J. Control* (1) 8 (1968), 525-536. (L. D. Berkovitz) 38 #5504

Conditions upon optimal controls in a class of nonlinear distributed parameter systems. *IEEE Trans. Automatic Control* AC-14 (1969), 100-101. (A. Blaquière) 43 #1713

Optimal control for a class of distributed parameter systems where the cost functions are norms. *J. Comput. System Sci.* 3 (1969), 24-36. (H. T. Banks) 39 #6143

(with Rasis, Y.) The bounded energy optimal control for a class of heat conduction systems. *Internat. J. Control* (1) 11 (1970), 153-164. (Authors' summary) 42 #4283

On the optimal control for a class of distributed parameter systems. *Internat. J. Control* (1) 12 (1970), 889-895. (S. F. Moon) 43 #1714

Optimal control of the transverse vibrations of a beam with a bound on the potential energy. *J. Optimization Theory Appl.* 5 (1970), 376-381. (Author's summary) 41 #8112

Yavorskii, I. V. See Javorskiĭ, I. V.

Yazaki, Koichi

The analytic properties of the distorted wave Born approximation amplitude. *Progr. Theoret. Phys.* 31 (1964), 772-780. (V. de Alfaro) 31 #4479

The dispersion theoretical approach to the effects of the inelastic scattering on the stripping reactions. *Progr. Theoret. Phys.* 31 (1964), 781-786. (V. de Alfaro) 31 #4480

Yazgan, Pervin

Results on some plane nets. (Turkish summary) *Comm. Fac. Sc Univ. Ankara Sér. A* 14 (1965), 1-17. (M. S. Robertson) 32 #198

Yeadon, F. J.

A new proof of the existence of a trace in a finite von Neum algebra. *Bull. Amer. Math. Soc.* 77 (1971), 257-260. (K. Saitô) 42 #6629

Yechiali, Uri

On optimal balking rules and toll charges in the *GI*/*M*/1 queuing process. *Operations Res.* 19 (1971), 349-370. (Author's summary) 43 #1613

Yee, Daniel D. H.

(with Isihara, A.) Quantum statistics of the distribution functions. *Phys. Rev.* (2) 136 (1964), A618-A631. (S. Fujita) 31 #3143

(with Isihara, A.) The pair distribution function of a dilute hard sphere Bose gas. *Physica* 30 (1964), 2123-2136. (J. Percus) 32 #926

Representations of the full inhomogeneous Lorentz group. (Italian and Russian summaries) *Nuovo Cimento B* (10) 58 (1968), 213-231. (D. Lurié) 39 #1180

Yee, H. Y.

(with Felsen, L. B.; Keller, J. B.) Ray theory of reflectio from the open end of a waveguide. *SIAM J. Appl. Math.* 16 (1968), 268-300. (I. Stakgold) 39 #641

Yee, Kane S.

An identity involving the Jacobian elliptic function. *J. Mat and Phys.* 45 (1966), 229-230. (S. Fempl) 33 #4332

Uniqueness theorems for an exterior electromagnetic field. *SIAM J. Appl. Math.* 18 (1970), 77-83. (P. C. Vaidya) 41 #664

(with Logan, N. A.) Note on contour integral representations for products of Airy functions. *SIAM J. Math. Anal.* 1 (1970), 115-117. (S. D. Bajpai) 41 #3831

fimov, N. V. See Efimov, N. V.

fimov, S. P. See Efimov, S. P.

gisapetov, E. G. See Egisapetov, È. G.

h, Cavour W. H.

The diffraction of sound waves by penetrable disks. *Ann. Physik* (7) 13 (1964), 53-61. (C. J. Bouwkamp) 32 #2006

Scattering of obliquely incident light waves by elliptical fibers. *J. Opt. Soc. Amer.* 54 (1964), 1227-1231. (W. Franzen) 31 #6531

Perturbation approach to the diffraction of electromagnetic waves by arbitrarily shaped dielectric obstacles. *Phys. Rev.* (2) 135 (1964), A1193-A1201. (I. Kay) 30 #4484

(with Rusch, W. V. T.) Interaction of microwaves with an inhomogeneous and anisotropic plasma column. *J. Appl. Phys.* 36 (1965), 2302-2306. (J. H. Richmond) 31 #1895

Perturbation method in the diffraction of electromagnetic waves by arbitrarily shaped penetrable obstacles. *J. Mathematical Phys.* 6 (1965), 2008-2013. (W. E. Williams) 32 #3462

Exact solution to a lens problem. *J. Opt. Soc. Amer.* 55 (1965), 860-867. (J. Meixner) 33 #6968

A note on integrals involving parabolic cylinder functions. *J. Math. and Phys.* 45 (1966), 231-232. (Brij Mohan) 34 #7836

h, Fu

On the absolute logarithmic summability of the allied series of a Fourier series. *Proc. Japan Acad.* 42 (1966), 862-866. (B. N. Sahney) 35 #7073

On the absolute logarithmic summability of the allied series of a Fourier series. *Proc. Japan Acad.* 43 (1967), 77-81. (J. Bryant) 35 #7074

h, Gordon C. K.

The diffraction of a plane compressional wave by a spherical cavity in an elastic medium. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 237-252. (J. W. Craggs) 29 #1813

h, Hsi-han

(with Tou, J. T.) Optimum control of a class of distributed-parameter systems. *IEEE Trans. Automatic Control* AC-12 (1967), 29-37. (R. Conti) 35 #1384

(with Tou, Julius T.) On the general theory of optimal processes. *Internat. J. Control* (1) 9 (1969), 433-451. (L. D. Berkovitz) 40 #5308

h, Hsin-yang

Measurability of gravitational field strengths. *Nuovo Cimento* (10) 21 (1961), *suppl.* 101-156. (J. K. Skwirzynski (PA 65 #7122)) 32 #3809

h, J.

Cameron-Martin translation theorems in the Wiener space of functions of two variables. *Trans. Amer. Math. Soc.* 107 (1963), 409-420. (J. S. Lipiński (Zbl 113, 331)) 32 #6565

Convolution in Fourier-Wiener transform. *Pacific J. Math.* 15 (1965), 731-738. (K. N. Srivastava) 32 #1514

Inequalities and a limit theorem for certain Wiener integrals. *Proc. Amer. Math. Soc.* 16 (1965), 915-918. (A. F. Ruston) 32 #191

Differentiability of sample functions in Gaussian processes. *Proc. Amer. Math. Soc.* 18 (1967), 105-108. (L. A. Shepp) 34 #3670 (E)

Correction to: "Differentiability of sample functions in Gaussian processes". *Proc. Amer. Math. Soc.* 19 (1968), 843. (Editors) 37 #2311

Singularity of Gaussian measures in function spaces with factorable covariance functions. *Pacific J. Math.* 31 (1969), 547-554. (J. A. Beekman) 40 #5011

Approximate evaluation of a class of Wiener integrals. *Proc. Amer. Math. Soc.* 23 (1969), 513-517. (D. A. Woodward) 40 #1574

Minimal coefficients in Hölder conditions in the Wiener space. *Proc. Amer. Math. Soc.* 25 (1970), 385-390. (M. Schilder) 41 #422

Singularity of Gaussian measures on function spaces induced by Brownian motion processes with non-stationary increments. *Illinois J. Math.* 15 (1971), 37-46. (S. J. Taylor) 42 #5315

h, K. C.

(with Mathur, N. C.) Multiple scattering of electromagnetic waves by random scatterers of finite size. *J. Mathematical Phys.* 5 (1964), 1619-1628. (R. A. Hurd) 29 #6802

h, Neng-che

(with Hall, Irving J.; Kudô, Akio) On slippage tests. II. Similar slippage tests. *Ann. Math. Statist.* 39 (1968), 2029-2037. (G. P. Patil) 39 #1042

Generalization of Neyman-Pearson fundamental lemma to vector-valued decision functions and its application to unbiased slippage tests. *Bull. Math. Statist.* 13 (1968), *no.* 1-2, 73-83. (D. R. Truax) 39 #2254

A multivariate normal test with two-sided alternative. *Bull. Math. Statist.* 13 (1968), *no.* 1-2, 85-88. (From the author's introduction) 38 #822

Unbiased slippage tests. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 83-95. (D. R. Truax) 39 #3641

Unbiased slippage tests. II. *Bull. Math. Statist.* 13 (1969), *no.* 3-4, 93-100. (Editors) 39 #6469

(with Kudô, Akio) On slippage tests. III. The least favorable distribution. *Tamkang J. Math.* 1 (1970), *no.* 1, 57-64. (R. V. Hogg) 42 #8612

Yeh, R. Z.

Two aspects of antidifferentiation by substitution. *Amer. Math. Monthly* 75 (1968), 507. (W. D. L. Appling) 37 #6412

Interiority criteria for ergodicity of finite Markov chains. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970)*, pp. 157-160. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (J. R. Blum) 43 #1281

Some criteria for Cesàro convergence. *Studies and Essays (Presented to Yu-why Chen on his 60th Birthday, April 1, 1970)*, pp. 161-164. *Math. Res. Center, Nat. Taiwan Univ., Taipei,* 1970. (S. M. Mazhar) 43 #7815

A geometric proof of Markov ergodic theorem. *Proc. Amer. Math. Soc.* 26 (1970), 335-340. (J. R. Blum) 41 #7771

Yeh, Raymond T.

On relational homomorphisms of automata. *Information and Control* 13 (1968), 140-155. (Author's summary) 39 #8029

Generalized pair algebra with applications to automata theory. *J. Assoc. Comput. Mach.* 15 (1968), 304-316. (Author's summary) 38 #5532

Finite covers with substitution property on infinite automata. *SIAM J. Appl. Math.* 16 (1968), 777-782. (M. A. Harrison) 38 #1960

(with Martin, James E.) An automaton model of goal-seeking systems. *Proc. 1969 IEEE Sympos. on Adaptive Processes (8th): Decision and Control (Pennsylvania State Univ., University Park, Pa., 1969)*, pp. 1c1-1c2. *Inst. Electr. Electron. Engrs., New York,* 1969. (Authors' introduction) 42 #1609

Decomposition of simple goal-seeking automata. *J. Franklin Inst.* 290 (1970), 419-427. (B. P. Zeigler) 43 #6021

Structural equivalence of automata. *Math. Systems Theory* 4 (1970), 198-211. (R. Kashef) 42 #4339

Yeh, Robert H. T.

Derivation of a lower bound on the free energy. *J. Mathematical Phys.* 11 (1970), 1521. (J. Śniatycki) 42 #1451

On the bounds of the average value of a function. *J. Mathematical Phys.* 12 (1971), 2397-2398. (Author's summary) 44 #4942

Lower bounds of the energy eigenvalues of systems containing identical particles. *J. Mathematical Phys.* 13 (1972), 227. (Author's summary) 44 #7871

Upper and lower bounds of the eigenvalues of a second-order linear self-adjoint differential equation. *J. Mathematical Phys.* 13 (1972), 227-228. (Author's summary) 44 #7761

Yeh, Y. S.

(with Ho, E. Y.) A new approach for evaluating the error probability in the presence of intersymbol interference and additive gaussian noise. *Bell System Tech. J.* 49 (1970), 2249-2265. (S. Csibi) 42 #7374

(with Ho, E. Y.) Improved intersymbol interference error bounds in digital systems. *Bell System Tech. J.* 50 (1971), 2585-2598. (H. H. Goldstine) 44 #7803

Yeh, Z. See Yeh, R. Z.

Yeh P'eng-sheng

The group SU_4 and symmetry of the elementary particles. (Chinese. English summary) *Acta Phys. Sinica* 22 (1966), 163-173. 32 #7033

Yeh Yen-ch'ien

* Chi-hsien huan lun. (Chinese) [Theory of limit cycles] *Shanghai Science Technology Press, Shanghai,* 1965. iii + 369 pp. (P. F. Hsieh) 34 #3007

Yellin, Joel

(with Sivers, Dennis) Detailed dynamics of narrow resonance models for $\pi\pi$ scattering. *Ann. Physics* 55 (1969), 107-130. (I. Aganović) 40 #2298

Yellot, John I., Jr.

(with Norman, M. Frank) Probability matching. *Psychometrika* 31 (1966), 43-60. (P. Suppes) 37 #7185

Yen, Andrew T.

(with Fu, Yumin; Srinath, Mandyam D.) A note on multivariate generating functions and applications to discrete stochastic processes. *SIAM Rev.* 7 (1965), 31-41. (P. A. P. Moran) 30 #4294

Yen, Chi-lin

The range of *m*-dissipative sets. *Bull. Amer. Math. Soc.* 78 (1972), 197-199. (K. Goebel) 44 #7395

Yen, David H. Y.

(with Bazer, J.) The Riemann matrix of $(2 + 1)$-dimensional symmetric-hyperbolic systems. *Comm. Pure Appl. Math.* 20 (1967), 329-363. (S. Cinquini) 39 #1800

Yen, Elizabeth H.

On two-stage non-parametric estimation. *Ann. Math. Statist.* 35 (1964), 1099-1114. (E. L. Lehmann) 29 #2914

(with van der Vaart, H. R.) Weak sufficient conditions for Fatou's lemma and Lebesgue's dominated convergence theorem. *Math. Mag.* 41 (1968), 109-117. (T. P. Srinivasan) 38 #1231

Yen, James T.

(with Chang, Chieh-chien) Magnetohydrodynamic Couette flow as affected by wall electrical conductances. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 400-407. (T. S. Lundgren) 32 #730

Yen, Jin Y.

Some algorithms for finding the shortest routes through the general networks. *Computing Methods in Optimization Problems, 2 (Proc. Conf., San Remo, 1968), pp.* 377-388. *Academic Press, New York,* 1969. (I. T. Frisch) 42 #7430

An algorithm for finding shortest routes from all source nodes to a given distination in general networks. *Quart. Appl. Math.* 27 (1969/70), 526-530. (Author's summary) 40 #7036

Yen, Ti

(with Gaschütz, Wolfgang) Groups with an automorphism group which is transitive on the elements of prime order. *Math. Z.* 86 (1964), 123-127. (Graham Higman) 30 #1174

(with Adney, J. E.) Automorphisms of a p-group. *Illinois J. Math.* 9 (1965), 137-143. (E. Schenkman) 30 #2072

(with Gaschütz, W.; Neubüser, J.) Über den Multiplikator von p-Gruppen. *Math. Z.* 100 (1967), 93-96. (J. Wiegold) 36 #272

On $\mathfrak{F}$-normalizers. *Proc. Amer. Math. Soc.* 26 (1970), 49-56. (R. W. Carter) 41 #6974

Yen Chih-ta

(with Ch'en Ya-ts'ung) On the linear transformations in unitary space admitting an anti-involution. *Acta Math. Sinica* 8 (1958), 36-52 *(Chinese); translated as Chinese Math. - Acta* 8 (1966), 620-636. (Editors) 36 #197

* Pan tan-ch'un li-chün li-tai-shu piao-shih lun. (Chinese) [Semi-simple Lie groups and the representation theory of Lie algebras] *Shanghai Science Technology Press, Shanghai,* 1963. vi + 194 *pp.* (C. Y. Chao) 35 #4328

A problem of Lie groups. II. *Acta Math. Sinica* 12 (1962), 120-131 *(Chinese); translated as Chinese Math.* 3 (1963), 130-141. (R. Steinberg) 30 #2107

On the quasi-inner automorphisms of a semi-simple real Lie algebra. *Acta Math. Sinica* 14 (1964), 387-391 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 418-423. (S. Tôgô) 30 #1218

(with Chang Ch'ing-yu) On the characteristic diagram of a semisimple Lie algebra. II. *Acta Math. Sinica* 15 (1965), 861-872 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 598-610. (S. Murakami) 34 #7733

Sur les espaces symétriques non compacts. *Sci. Sinica* 14 (1965), 31-38. (J. Hano) 32 #1291

Sur la sous-algèbre régulière d'une algèbre de Lie semi-simple reélle non-compacte. *Sci. Sinica* 14 (1965), 917-920. (S. Murakami) 33 #158

Sur l'isomorphisme d'un espace local symétrique à son associé. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 145-146. (S. Murakami) 33 #7387

Classifications of real simple Lie algebras. (Chinese) *Shuxue Jinzhan* 9 (1966), 349-364. (C. C. Wu) 39 #2918

Yennie, Donald R.

(with Rosen, Mervine) A modified WKB approximation for phase shifts. *J. Mathematical Phys.* 5 (1964), 1505-1515. (Authors' summary) 29 #4469

(with Hassoun, G. Q.) Infrared divergence of the angular momentum of bremsstrahlung and the physical structure of the electron. *Phys. Rev.* (2) 134 (1964), B436-B444. (T. Erber) 29 #937

(with Erickson, Glen W.) Radiative level shifts. I. Formulation and lowest order Lamb shift. *Ann. Physics* 35 (1965), 271-313. (F. Rohrlich) 33 #7013

(with Erickson, Glen W.) Radiative level shifts. II. Higher order contributions to the Lamb shift. *Ann. Physics* 35 (1965), 447-510. (F. Rohrlich) 33 #7014

(with Boos, F. L., Jr.) Analytic distorted-wave approximation for high-energy electron scattering calculations. *Phys. Rev.* (2) 137 (1965), B882-B903. (M. H. Mittleman) 33 #1081

Yen Shen Lynn, Roger. See Lynn, Roger Yen Shen.

Yen Shih-chien

Linear groups over a ring. *Acta Math. Sinica* 15 (1965), 455-468 *(Chinese); translated as Chinese Math. - Acta* 7 (1965), 163-179. (P. M. Cohn) 36 #5237

Yen Tun-chieh

(See Discourses on the history of mathematics of the Sung and Yüan period, 34 #2403)

Yen Tzu-chün

Le Chatelier's principle at negative absolute temperatures. *Acta Phys. Sinica* 21 (1965), 630-635. (Author's summary) 31 #1

Yeo, G. F.

Single server queues with modified service mechanisms. *J. Austral. Math. Soc.* 2 (1961/62), 499-507. (J. F. C. Kingman) 31 #5256

(with Gani, J.) On the age distribution of n ranked element after several replacements. *Austral. J. Statist.* 4 (1962), 55-6 (Benjamin Epstein) 32 #568

Traffic delays on a two-lane road. *Biometrika* 51 (1964), 11-15. (G. Newell) 30 #4592

(with Weesakul, B.) Delays to road traffic at an intersect *J. Appl. Probability* 1 (1964), 297-310. (G. Newell) 29 #6562

(with Gani, J.) Some birth-death and mutation models for phage reproduction. *J. Appl. Probability* 2 (1965), 150-161. (G. Weiss) 31 #1118

(with Chover, J.) Solutions of some two-sided boundary problems for sums of variables with alternating distributions. *J. Appl. Probability* 2 (1965), 377-395. (G. Baxter) 32 #500

(with Barndorff-Nielsen, Ole) Negative binomial processes. *J. Appl. Probability* 6 (1969), 633-647. (J. R. Kinney) 41 #4630

Yeo, L. H.

(with Teh, H. H.) Further results of group graphs. *J. Nanyang Univ.* 3 (1969), 345-379. (R. L. Hemminger) 42 #133

Ye Peng-sheng. See Yeh P'eng-sheng.

Yermanos, Demetrios M.

(See Malécot, Gustave, 41 #3130)

Yershov, A. P. See Eršov, A. P.

Yeung, Shiu-fong

(with Ling, Chih-bing) On values of roots of monomial-transcendental equations. *Hung-ching Chow Sixty-fifth Anniversary Volume, pp.* 196-204. *Math. Res. Center Nat. Taiwan Univ., Taipei,* 1967. (From the authors' introduction) 37 #1059

Yeung, Yik-Hoi Au. See Au-yeung, Yik-hoi.

Yevick, George J.

(with Percus, J. K.) Hard-core insertion in the many-body problem. *Phys. Rev.* (2) 136 (1964), B290-B296. (A. Corciovei) 32 #939

Ye Yan-quian. See Yeh Yen-ch'ien.

Yezhow, I. I. See Ēžov, Ī. Ī.

Yff, Peter

On k-conjugacy in a group. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 1-4. (W. E. Jenner) 31 #2307

Groups with identical subgroup structures. *Math. Z.* 99 (1967 178-181. (D. L. Barnett) 35 #1675

Yi, Yuan Yu. See Yu, Yi-yuan.

Yien Chih-ta. See Yen Chih-ta.

Yih, Chia-shun

* Dynamics of nonhomogeneous fluids. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1965. xiv + 306 *pp.* (Henry Stommel) 32 #676

Gravitational instability of a viscous fluid in a magnetic field. *J. Fluid Mech.* 22 (1965), 579-586. (A. A. Blank) 32 #684

Stability of a non-Newtonian liquid film flowing down an inclined plane. *Phys. Fluids* 8 (1965), 1257-1262. (T. W. Kao) 32 #4985

Note on eigenvalue bounds for the Orr-Sommerfeld equation. *J. Fluid Mech.* 38 (1969), 273-278. (Author's summary) 39 #7879

Yi Huŏng-wŏn

A method of solving a system of linear integral equations arising in optimal control theory. (Korean. Russian summary) *Suhak kwa Mul-li* 10 (1966), *no.* 2, 1-7. (Editors) 37 #5634

Yik-hoi Au-yeung. See Au-yeung, Yik-hoi.

Yildiz, Asim

(with Silberg, Paul A.) Natural oscillations of a bounded plasma. *Phys. Fluids* 7 (1964), 96-102. (PA 67 #8756) 32 #3754

Light and sound emissions from nonlinear plasma fluctuations. *Phys. Rev.* (2) 136 (1964), A393-A404. (D. C. Montgomery) 31 #316

Ying Long-an. See Ying Lung-an.

Ying Lung-an

The general boundary value problem of quasi-linear parabolic equations. *Acta Math. Sinica* 14 (1964), 328-339 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 356-368. (L. Sarason) 34 #7948 in P'eng-ch'eng

(with Chang Ch'ung-t'ing; Chao Wan-yun) The Regge poles of cut-off Coulomb potential. *Acta Phys. Sinica* 21 (1965), 583-590. (Authors' summary) 31 #1032

(with Chang Ch'un-t'ing) The generalized Regge representation of the scattering amplitude. (Chinese. English summary) *Acta Phys. Sinica* 21 (1965), 2004-2014. (S. Y. Chu) 33 #8176

in Yong-quan. See Yin Yung-ch'üan.

in Yung-ch'üan

(with Hua Lo-keng) A new approximate solution to the Dirichlet problem. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 28-31. (C.-B. Ling) 35 #7599

(with Hua Lo-keng) A geometrical inequality. *Kexue Tongbao (Foreign Lang. Ed.)* 17 (1966), 433-435. (W. J. Firey) 34 #1926

i Ok-yŏn

On stability of asymptotic solutions of a system of nonlinear differential equations with retarded arguments. (Korean. English summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1967, *no.* 4, 4-7. (Author's summary) 36 #2922

ip, Sidney

(Nelkin, Mark) Application of a kinetic model to time-dependent density correlations in fluids. *Phys. Rev.* (2) 135 (1964), A1241-A1247. (Authors' summary) 30 #1813

(with van Leeuwen, J. M. J.) Derivation of kinetic equations for slow-neutron scattering. *Phys. Rev.* (2) 139 (1965), A1138-A1151. (J. R. Dorfman) 32 #5290

linen, Kari

Compact and finite-dimensional elements of normed algebras. *Ann. Acad. Sci. Fenn. Ser. A I No.* 428 (1968), 37 *pp.* (P. Saworotnow) 38 #6365

linen, Raimo

(with Blomberg, Hans; Sinervo, Jyrki; Halme, Aarne) On algebraic methods in systems theory. *Acta Polytech. Scand. Math. and Comput. Mach. Ser. No.* 19 (1969), 43 *pp.* (J. Willems) 42 #2826

litch-Daĭovitch, Militsa. See Ilić-Dajović, Milica.

lvisaker, Donald

(with Hobby, Charles) Some structure theorems for stationary probability measures on finite state sequences. *Ann. Math. Statist.* 35 (1964), 550-556. (J. E. Cigler) 29 #655

The expected number of zeros of a stationary Gaussian process. *Ann. Math. Statist.* 36 (1965), 1043-1046. (M. R. Leadbetter) 31 #1721

(with Sacks, Jerome) Designs for regression problems with correlated errors. *Ann. Math. Statist.* 37 (1966), 66-89. (E. Parzen) 33 #826

On a theorem of Cramér and Leadbetter. *Ann. Math. Statist.* 37 (1966), 682-685. (M. R. Leadbetter) 33 #1901

(with Sacks, Jerome) Designs for regression problems with correlated errors; many parameters. *Ann. Math. Statist.* 39 (1968), 49-69. (E. Parzen) 36 #3484

A note on the absence of tangencies in Gaussian sample paths. *Ann. Math. Statist.* 39 (1968), 261-262. (L. H. Koopmans) 37 #2312

(with Sacks, Jerome) Statistical designs and integral approximation. *Proc. Twelfth Biennial Sem. Canad. Math. Congr. on Time Series and Stochastic Processes; Convexity and Combinatorics (Vancouver, B. C., 1969), pp.* 115-136. *Canad. Math. Congr., Montreal, Que.,* 1970. (E. Parzen) 43 #2806

(with Sacks, Jerome) Designs for regression problems with correlated errors. III. *Ann. Math. Statist.* 41 (1970), 2057-2074. (E. Parzen) 42 #5418

nduráin, F. J.

(with Galindo, A.) On parastatistics. (Italian summary) *Nuovo Cimento* (10) 30 (1963), 1040-1047. (Authors' summary) 35 #2568

Essential singularities of scattering amplitudes. *Nuovo Cimento A* (10) 45 (1966), 789-791. (G. R. Allcock) 34 8753

(with Alonso, J. L.) On the continuity of causal automorphisms of space-time. *Comm. Math. Phys.* 4 (1967), 349-351. (R. Behari) 35 #2600

The Heisenberg algebra and contractions of the rotation algebra. (Italian and Russian summaries) *Nuovo Cimento A* (10) 50 (1967), 308-312. (Author's summary) 35 #3981

Lorentz covariant distributions. *J. Mathematical Phys.* 9 (1968), 1415-1422. (A. O. Barut) 39 #1189

(with Common, A. K.) Constraints on the derivatives of the $\pi\pi$ scattering amplitude from positivity. *Comm. Math. Phys.* 18 (1970), 171-178. (L. Streit) 42 #5549

Absolute bound on cross-sections at all energies and without unknown constants. *Phys. Lett.* 31*B* (1970), 368-370. (G. Barton) 44 #7876

ngström, S.

(with Eriksson, K.-E.) A simple approach to the Schwarzschild solution. *Phys. Lett.* 5 (1963), 327-328. (A. S. Wightman) 29 #3215

ngvason, Jakob

Zero-mass infinite spin representations of the Poincaré group and quantum field theory. *Comm. Math. Phys.* 18 (1970), 195-203. (J.-P. Antoine) 42 #4106

Yntema, Mary Katherine

A detailed argument for the Post-Linial theorems. *Notre Dame J. Formal Logic* 5 (1964), 37-50. (Walter Oberschelp) 30 #1031

Cap expressions for context-free languages. *Information and Control* 18 (1971), 311-318. (H. Maurer) 44 #3815

Yoccoz, J.

(with Rouhaninejad, H.) Champ self-consistent et méthode de projection. (English summary) *Nuclear Phys.* 78 (1966), 353-368. (D. ter Haar) 33 #2304

Yock, Philip

(See Johnson, Kenneth A., 32 #2071)

Yocom, K. L.

(with Jacobson, R. A.) Absolutely independent group axioms. *Amer. Math. Monthly* 72 (1965), 756-758. (F. Harary) 32 #5517

Yodzis, P.

The geometry of broken symmetries. (Italian and Russian summaries) *Nuovo Cimento B* (10) 68 (1970), 153-164. (J.-P. Antoine) 43 #5818

Yoeli, Michael

(with Ginzburg, Abraham) On homomorphic images of transition graphs. *J. Franklin Inst.* 278 (1964), 291-296. (J. Hartmanis) 29 #5240

Canonical representations of chain events. *Information and Control* 8 (1965), 180-189. (S. Ginsburg) 30 #4640

Generalized cascade decompositions of automata. *J. Assoc. Comput. Mach.* 12 (1965), 411-422. (M. A. Harrison) 33 #2492

Lattice-ordered semigroups, graphs, and automata. *J. Soc. Indust. Appl. Math.* 13 (1965), 411-422. (S. Ginsburg) 31 #2344

(with Ginzburg, Abraham) Products of automata and the problem of covering. *Trans. Amer. Math. Soc.* 116 (1965), 253-266. (J. Hartmanis) 34 #1112

Generalized direct decompositions of transformation graphs. (French summary) *Theory of Graphs (Internat. Sympos., Rome,* 1966), *pp.* 403-414. *Gordon and Breach, New York; Dunod, Paris,* 1967. (A. R. Bednarek) 37 #107

Subdirectly irreducible unary algebras. *Amer. Math. Monthly* 74 (1967), 957-960. (E. G. Wagner) 37 #3876

(with Turner, James) Decompositions of group functions with applications to two-rail cascades. *Information and Control* 10 (1967), 565-571. (P. L. Hammer) 36 #7441

(with Ablow, C. M.) Subdirect decompositions of transformation graphs. *Information and Control* 12 (1968), 426-441. (E. G. Wagner) 39 #3915

(with Shinahr, Ilka) Group functions and multi-valued cellular cascades. *Information and Control* 15 (1969), 369-376. (Authors' summary) 40 #4011

Yoffe, L. Sh. See Ioffe, L. Š.

Yogananda, C. V.

(with Iyengar, K. T. Sundara Raja) Long circular cylindrical laminated shells subjected to axisymmetric external loads. *Z. Angew. Math. Mech.* 44 (1964), 270-272. (From the authors' introduction) 29 #4292

Yo Ging-tzung. See Yueh Ching-chung.

Yohe, Cleon R.

Triangular and diagonal forms for matrices over commutative noetherian rings. *J. Algebra* 6 (1967), 335-368. (W. G. Leavitt) 35 #1582

On rings in which every ideal is the annihilator of an element. *Proc. Amer. Math. Soc.* 19 (1968), 1346-1348. (K. G. Wolfson) 38 #3301

On rings over which symmetric matrices are diagonalizable. *Duke Math. J.* 36 (1969), 333-341. (L. J. Ratliff, Jr.) 39 #1444

Commutative rings whose matrix rings are Baer rings. *Proc. Amer. Math. Soc.* 22 (1969), 189-191. (S. S. Page) 39 #6869

Yohe, J. M.

(with Rosser, J. Barkley; Schoenfeld, Lowell) Rigorous computation and the zeros of the Riemann zeta-function. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968), *Vol. 1: Mathematics, Software, pp.* 70-76. *North-Holland, Amsterdam,* 1969. (Authors' summary) 41 #2892

Structure of hereditarily infinite dimensional spaces. *Proc. Amer. Math. Soc.* 20 (1969), 179-184. (E. Hemmingsen) 38 #5189

Monotone mapping properties of hereditarily infinite dimensional spaces. *Proc. Amer. Math. Soc.* 22 (1969), 639-645. (D. W. Henderson) 39 #4814

Yokoi, Hideo

A note on the Galois cohomology group of the ring of integers in an algebraic number field. *Proc. Japan Acad.* 40 (1964), 245-246. (G. B. Seligman) 29 #2239

A cohomological investigation of the discriminant of a normal algebraic number field. *Nagoya Math. J.* 27 (1966), 207-211. (O. F. G. Schilling) 33 #2622

On the class number of a relatively cyclic number field. *Nagoya Math. J.* 29 (1967), 31-44. (T. Kubota) 34 #7496

On the divisibility of the class number in an algebraic number field. *J. Math. Soc. Japan* 20 (1968), 411-418. (K. Masuda) 37 #2725

On real quadratic fields containing units with norm -1. *Nagoya Math. J.* 33 (1968), 139-152. (Harvey Cohn) 38 #2124

On the fundamental unit of real quadratic fields with norm 1. *J. Number Theory* 2 (1970), 106-115. (H. J. Godwin) 40 #5572

Units and class numbers of real quadratic fields. *Nagoya Math. J.* 37 (1970), 61-65. (V. Galkin (RZMat 1970 #10 A239)) 43 #3231

Yokonuma, Takeo

(with Ihara, Shin-ichiro) On the second cohomology groups (Schur-multipliers) of finite reflection groups. *J. Fac. Sci. Univ. Tokyo Sect. I* 11, 155-171 (1965). (L. Evens) 32 #7646a

On the second cohomology groups (Schur-multipliers) of infinite discrete reflection groups. *J. Fac. Sci. Univ. Tokyo Sect. I* 11, 173-186 (1965). (L. Evens) 32 #7646b

On a property of some generalized symmetric groups. *J. Fac. Sci. Univ. Tokyo Sect. I* 12, 193-211 (1965). (H. Nagao) 32 #7650

Sur la structure des anneaux de Hecke d'un groupe de Chevalley fini. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A344-A347. (M. Sugiura) 36 #1553

Sur le commutant d'une représentation d'un groupe de Chevalley fini. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A433-A436. (R. A. Gangolli) 35 #2977

Sur le commutant d'une représentation d'un groupe de Chevalley fini. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 115-129. (R. Steinberg) 40 #1501

Sur le commutant d'une représentation d'un groupe de Chevalley fini. II. *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 65-81. (R. A. Gangolli) 41 #8547

Complément au mémoire "Sur le commutant d'une représentation d'un groupe de Chevalley fini". *J. Fac. Sci. Univ. Tokyo Sect. I* 16 (1969), 147-148. (R. A. Gangolli) 41 #8546

Yokota, Ichiro

Representation rings of group G_2. *J. Fac. Sci. Shinshu Univ.* 2 (1967), 125-138. (S. Sankaran) 38 #3381

Representation ring of Lie group F_4. *Proc. Japan Acad.* 43 (1967), 858-860. (R. Steinberg) 37 #6403

Exceptional Lie group F_4 and its representation rings. *J. Fac. Sci. Shinshu Univ.* 3 (1968), 35-60. (M. S. Raghunathan) 38 #3382

A note on Spin (9). *J. Fac. Sci. Shinshu Univ.* 3 (1968), 61-70. (M. S. Raghunathan) 38 #3383

Yokote, Ichiro

On a foliated manifold with 1-dimensional distribution. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 9, 1-23 (1965). (J. W. Smith) 32 #8280

On some properties of the tangent bundles of Riemannian manifolds which admit a skew-symmetric covariant tensor of order 2. *Sci. Rep. Tokyo Kyoiku Daigaku Sect. A* 9, 143-147 (1967). (M. Okumura) 38 #6483

On some properties of curvatures of foliated Riemannian structures. *Kōdai Math. Sem. Rep.* 22 (1970), 1-29. (Ngô van Quê) 41 #7714

Yokoyama, Akio

On the Gaussian sum and the Jacobi sum with its application. *Tôhoku Math. J.* (2) 16 (1964), 142-153. (S. Chowla) 30 #78

On class numbers of finite algebraic number fields. *Tôhoku Math. J.* (2) 17 (1965), 349-357. (K. Iwasawa) 32 #7546

Über die Relativklassenzahl eines relativ-Galoisschen Zahlkörpers von Primzahlpotenzgrad. *Tôhoku Math. J.* (2) 18 (1966), 318-324. (G. J. Rieger) 35 #166

On the relative class number of finite algebraic number fields. *J. Math. Soc. Japan* 19 (1967), 179-184. (T. Kubota) 35 #1571

Yokoyama, Kan-ichi

(with Kubo, Reijiro) Vector spaces with indefinite metric and pole-type ghosts. *Progr. Theoret. Phys.* 41 (1969), 542-559. (H. Araki) 40 #3851

Asymptotic conditions of static spherically symmetric spacetimes with short-range potentials. *Tensor (N.S.)* 20 (1969), 5-12. (H. A. Buchdahl) 39 #3788

On asymptotic conditions of solutions of the Einstein type field equations for spherically symmetric distribution of static fluid. *Tensor (N.S.)* 20 (1969), 60-62. (H. A. Buchdahl) 39 #3789

Yokoyama, Ryuzo

(with Takeda, Hiroshi; Anayama, Takeshi) Liapunov function for pseudo time optimal control. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 181-190. (Authors' summary) 42 #4284

Yokoyama, Yûichi

(with Kawahara, Yûsaku) On higher differentials in commutative rings. *TRU Math.* 2 (1966), 12-30. (R. Cohn) 37 #6274

Yŏm Kyu-sŏng

On a problem of the parametric linear programming method. (Korean. Russian summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-w T'ong-p'o* 1966, *no.* 1, 6-8. (Author's summary) 36 #3573b

On a problem of the parametric linear programming method. (Korean. Russian summary) *Su-hak kwa Mul-li* 10 (1966), *no.* 4, 22-28. (Author's summary) 36 #3573a

Parametric quadratic programming. (Korean. English summary) *Su-hak kwa Mul-li* 11 (1967), *no.* 1, 2-7. (Author's summary) 36 #3577

Yoneda, Kaoru

On generalized (A)-integrals. I. *Proc. Japan Acad.* 45 (196 159-163. (A. Revuz) 39 #5767

Yoneda, Nobuo

Note on products in Ext. *Proc. Amer. Math. Soc.* 9 (1958), 873-875. 31 #233

On Ext and exact sequences. *J. Fac. Sci. Univ. Tokyo Sect.* 8, 507-576 (1960). (G. S. Rinehart) 37 #1445

Yoneda, Syojiro

(with Kasai, Tamotsu; Kusaka, Hiroji; Taki, Iichi) Various series of incomplete graphs derived from a complete graph and general formulas for the total number of their trees. *Bull. Univ Osaka Prefecture Ser. A* 15 (1966), *no.* 1, 71-84. (W. H. Kim) 34 #7410

(with Kasai, Tamotsu; Matsui, Kunio; Kusaka, Hiroji; Taki, Iichi) A method for the expansion of tree determinants in incomplete graphs and the expressions of their expanded formulas by th continuants. *Bull. Univ. Osaka Prefecture Ser. A* 15 (1966), *no.* 1, 85-95. (W. H. Kim) 34 #7411

Yonemitsu, Naoto

A note on formulations of some modal systems. *Mem. Osaka Gakugei Univ. B. Natur. Sci. No.* 14 (1965), 26-29. 36 #4969

Yonezawa, Fumiko

Effective spin Hamiltonian for nonorthogonal orbitals. I. Linked-cluster expansion. *Progr. Theoret. Phys.* 34 (1965), 210-233. (T. Arai) 32 #8956

Yonezawa, Minoru

(with Furuichi, Susumu) Structure of the two-pion-exchange contribution in nucleon-nucleon scattering. *Progr. Theoret. Phys.* 33 (1965), 238-250. (D. B. Lichtenberg) 31 #5525

Yonezawa, Yoo

(with Sawaragi, Yoshikazu; Tanaka, Teruo; Kogita, Yoshifumi) Study on the self-oscillation in an improved on-off control syste (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 263-271. (Authors' summary) 42 #5682

Yong, Chi-hsing

Integrability theorems of certain trigonometric series with quasi-monotone coefficients. *Monatsh. Math.* 69 (1965), 441-450. (S. M. Shah) 34 #4795; erratum, 39, p. 1593

Integrability theorems of powers of trigonometric series wit quasi-monotone coefficients. *Math. Z.* 91 (1966), 280-293. (S. M. Shah) 32 #6129

On the asymptotic behaviours of cosine series with monotone coefficients. *Publ. Inst. Math. (Beograd) (N.S.)* 9(23) (1969), 29-35. (Y. M. Chen) 40 #621

On the asymptotic behavior of trigonometric series. I. *J. Math. Anal. Appl.* 33 (1971), 23-34. (D. Waterman) 43 #5236

Yong, Chong-how. See Yang, Chung-how.

Yongbai Baik

Conharmonic transformations in recurrent and Ricci-recurrent Riemannian spaces. *Kyungpook Math. J.* 6 (1964/65), 69-76. (Y.-C. Wong) 37 #2126

On pseudo manifold with (fr,g)-structure. *Kyungpook Math. J.* 7 (1967), 15-30. (I. Mogi) 38 #6492

Yong Er-quian. See Yung Erh-ch'ien.

Yood, Bertram

Faithful *-representations of normed algebras. II. *Pacific J. Math.* 14 (1964), 1475-1487. (P. Civin) 30 #2362

(with Civin, Paul) Lie and Jordan structures in Banach algebras. *Pacific J. Math.* 15 (1965), 775-797. (F. F. Bonsall) 32 #6245

On Kadison's condition for extreme points of the unit ball in a B^*-algebra. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 245-250. (E. G. Effros) 42 #862

Continuity for linear maps on Banach algebras. *Studia Math.* 31 (1968), 263-266. (G. R. Allan) 38 #5012

On algebras which are pre-Hilbert spaces. *Duke Math. J.* 36 (1969), 261-271. (D. W. Bailey) 41 #4242

On axioms for B^*-algebras. *Bull. Amer. Math. Soc.* 76 (1970), 80-82. (G. Maltese) 40 #6273

Incomplete normed algebras. *Bull. Amer. Math. Soc.* 78 (1972) 50-52. (A. M. Sinclair) 44 #3127

Yoon Suk Koh

(with Goldhammer, Paul) Variational treatment of hard-core interactions. *Nuclear Phys.* 53 (1964), 287-296. (J. L. Gammel) 29 #1932

Vertical diffusion in boundary layer with unstable stratification as a two-layer problem. *C. R. Acad. Bulgare Sci.* 17 (1964), 1087-1089. 30 #5796

rinaga, Masataka

A note on the differential equations with relay-hysteresis. *Math. J. Okayama Univ.* 13 (1968), 183-198. (B. J. Leon) 38 #4169

rk, Derek

Least-squares fitting of a straight line. *Canad. J. Phys.* 44 (1966), 1079-1086. (Author's summary) 33 #3440

rk, James W., Jr.

(with Davis, W. R.) Identities and conservation-law generators resulting from general invariance properties of classical field theories. (Italian and Russian summaries) *Nuovo Cimento B* (10) 65 (1970), 1-18. (H. Treder) 42 #4162

(with Davis, W. R.; Moss, M. K.) Conservation laws in the general theory of relativity. III. Symmetry properties not describable by co-ordinate mappings. (Italian and Russian summaries) *Nuovo Cimento B* (10) 65 (1970), 19-32. (W. Israel) 44 #2462

Gravitational degrees of freedom and the initial-value problem. *Phys. Rev. Lett.* 26 (1971), 1656-1658. (H. A. Buchdahl) 44 #7944

rke, James A.

(with Strauss, Aaron) Perturbation theorems for ordinary differential equations. *J. Differential Equations* 3 (1967), 15-30. (F. Brauer) 34 #3029

(with Strauss, Aaron) On asymptotically autonomous differential equations. *Math. Systems Theory* 1 (1967), 175-182. (T. Yoshizawa) 35 #4524

Invariance for ordinary differential equations. *Math. Systems Theory* 1 (1967), 353-372. (N. P. Bhatia) 37 #1695 (E)

Extending Liapunov's second method to non-Lipschitz Liapunov functions. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 31-36. *Springer, Berlin,* 1968. (Editors) 38 #2396

Liapunov functions and the existence of solutions tending to 0. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 48-54. *Springer, Berlin,* 1968. (Editors) 38 #2397

An extension of Chetaev's instability theorem using invariant sets and an example. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 100-106. *Springer, Berlin,* 1968. (Editors) 38 #2398

Asymptotic stability for functional differential equations. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland, 1967), pp.* 65-75. *Springer, Berlin,* 1968. (Editors) 38 #1373

Extending Liapunov's second method to non-Lipschitz Liapunov functions. *Bull. Amer. Math. Soc.* 74 (1968), 322-325. (C. C. Conley) 37 #524

(with Strauss, Aaron) Perturbing asymptotically stable differential equations. *Bull. Amer. Math. Soc.* 74 (1968), 992-996. (T. Yoshizawa) 37 #6555

"Invariance for ordinary differential equations": Correction. *Math. Systems Theory* 2 (1968), 381. (N. P. Bhatia) 38 #4753

(with Bhatia, N. P.; Szegö, G. P.) A Liapunov characterization of attractors. *Boll. Un. Mat. Ital.* (4) 2 (1969), 222-228. (T. Ura) 40 #6003

(with Jones, G. Stephen) The existence and nonexistence of critical points in bounded flows. *J. Differential Equations* 6 (1969), 238-246. (T. Ura) 39 #5897

(with Strauss, Aaron) Perturbing uniform asymptotically stable nonlinear systems. *J. Differential Equations* 6 (1969), 452-483. (D. Wexler) 40 #5998

Permutations and two sequences with the same cluster set. *Proc. Amer. Math. Soc.* 20 (1969), 606. (P. R. Halmos) 38 #3825

Noncontinuable solutions of differential-delay equations. *Proc. Amer. Math. Soc.* 21 (1969), 648-652. (V. Staikos) 39 #1774

Periods of periodic solutions and the Lipschitz constant. *Proc. Amer. Math. Soc.* 22 (1969), 509-512. (Joseph C. Wilson) 39 #7222

(with Strauss, Aaron) Identifying perturbations which preserve asymptotic stability. *Proc. Amer. Math. Soc.* 22 (1969), 513-518. (J. Kato) 39 #5892

(with Winston, Elliot) Linear delay differential equations whose solutions become identically zero. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 885-887. (V. Staikos) 40 #7603

(with Strauss, Aaron) Perturbing uniformly stable linear systems with and without attraction. *SIAM J. Appl. Math.* 17 (1969), 725-738. (N. Onuchic) 40 #5999

(with Strauss, Aaron) On the fundamental theory of differential equations. *SIAM Rev.* 11 (1969), 236-246. (L. D. Fountain) 40 #431

A continuous differential equation in Hilbert space without existence. *Funkcial. Ekvac.* 13 (1970), 19-21. (J. Calvert) 41 #8792

Asymptotic stability for one dimensional differential-delay equations. *J. Differential Equations* 7 (1970), 189-202. (G. Sansone) 40 #6016

(with Goodman, Gerald S.) Misbehaviour of solutions of the differential equation $y' = f(x,y) + \varepsilon$ when the right hand side is discontinuous. *Math. Scand.* 27 (1970), 72-76. (C. Avramescu) 43 #2266

A theorem on Liapunov functions using ϑ. *Math. Systems Theory* 4 (1970), 40-45. (G. P. Szegö) 42 #3372

Differential inequalities and non-Lipschitz scalar functions. *Math. Systems Theory* 4 (1970), 140-153. (T. Yoshizawa) 42 #3373

(with Strauss, Aaron) Linear perturbations of ordinary differential equations. *Proc. Amer. Math. Soc.* 26 (1970), 255-260. (R. P. de Figueiredo) 41 #3920

(with Lasota, A.) Bounds for periodic solutions of differential equations in Banach spaces. *J. Differential Equations* 10 (1971), 83-91. (J. E. Lagnese) 43 #5133

(with Saperstone, Stephen H.) Controllability of linear oscillatory systems using positive controls. *SIAM J. Control* 9 (1971), 253-262. (D. H. Chyung) 44 #3730

(with Halanay, A.) Some new results and problems in the theory of differential-delay equations. *SIAM Rev.* 13 (1971), 55-80. (R. D. Driver) 44 #1899

Yos, Jerrold M.

(with Waterman, P. C.; Abodeely, R. J.) Numerical integration of non-analytic functions. *J. Math. and Phys.* 43 (1964), 45-50. (R. E. Barnhill) 35 #6369

Yoseloff, Mark L.

(with Kuhn, Harold W.) Combinatorial approach to the N-representability of P-density matrices. *J. Mathematical Phys.* 10 (1969), 703-706. (A. J. Coleman) 39 #6591

Yoshida, Hidenobu

Some notes on boundary behaviour of meromorphic functions in $|z| < 1$. (Japanese summary) *J. Fac. Engrg. Chiba Univ.* 20 (1969), 147-151. (P. Lappan) 42 #4741

A remark on Plessner points. *J. Fac. Engrg. Chiba Univ.* 20 (1969), 153-154. (G. Piranian) 42 #4742

Yoshida Kôsaku. See Yosida, Kôsaku.

Yoshida, Kozo

(with Yamada, Kin-ichi) An application of Boolean algebra in practical situations. *Hitotsubashi J. Arts Sci.* 5 (1965), 41-57. (Saul Levy) 31 #3233

Yoshida, Mamoru

On the connections in a subspace of the special Kawaguchi space. *Tensor (N.S.)* 17 (1966), 49-52. (A. Kawaguchi) 32 #8293

The equations of Gauss and Codazzi in the special Kawaguchi geometry. *Tensor (N.S.)* 18 (1967), 13-17. (H. Rund) 34 #5040

(with Kajiwara, Joji) Note on Cauchy-Riemann equation. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 22 (1968), 18-22. (W. Barth) 37 #5425

On the normal curvature and conjugate and asymptotic directions of a subspace in a special Kawaguchi space. *Tensor (N.S.)* 19 (1968), 251-254. (T. Ohkubo) 38 #1640

(with Adachi, Kenzō; Suzuki, Masaaki) Cousin-II domains and domains of holomorphy. *Mem. Fac. Sci. Kyushu Univ. Ser. A* 24 (1970), 242-248. (H. B. Laufer) 43 #3484

Yoshida, Michio

Some examples related to duality theorem in linear programming. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 30 (1966), 41-43. (K. Ritter) 34 #3999

The method of orthogonal decomposition for differentials on open Riemann surfaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 181-210. (Y. K. Kwon) 39 #441

Yoshida, Midori

A proof of a theorem of Altman on iterative approximations. (Japanese. English summary) *Mem. Osaka Univ. Lib. Arts Ed. Ser. B No.* 12 (1963), 11-13. (Author's summary) 29 #3001

(with Nakamura, Masahiro) On Bückner's inclusion theorems for Hermitean operators. *Proc. Japan Acad.* 40 (1964), 180-182. (R. G. Douglas) 29 #2655

(with Nakamura, Masahiro) On a generalization of a theorem of Cox. *Proc. Japan Acad.* 43 (1967), 108-110. (G. H. Orland) 36 #708

Yoshida, Reikichi

Certain embedding problems of semigroups. II. *Proc. Japan Acad.* 41 (1965), 562-563. (D. R. Brown) 34 #2750

(with Yamada, Miyuki) On commutativity of a semigroup which is a semilattice of commutative semigroups. *J. Algebra* 11 (1969), 278-297. (R. J. Warne) 38 #3369

(with Plemmons, R. J.) Generating polynomials for finite semigroups. *Math. Nachr.* 47 (1970), 69-75. (R. E. Peinado) 44 #347

Yoshida, Toshio

A remark on vector fields on lens spaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 31 (1967), 13-15. (R. L. E. Schwarzenberger) 35 #7349

On the vector bundles $m\xi_n$ over real projective spaces. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 32 (1968), 5-16. (M. Mahowald) 38 #6622

Note on the span of certain manifolds. *J. Sci. Hiroshima Univ. Ser. A-I Math.* 34 (1970), 13-15. (R. L. E. Schwarzenberger) 42 #8523

Yoshida, Yoshiyuki

(with Suzuki, Takeji) Inequalities for many-server queue and other queues. *J. Operations Res. Soc. Japan* 13 (1970/71), 59-77. (A. Descloux) 43 #8160

Yoshida, Yukio

Quelques exemples des espaces rangés concernant les convergences. *Math. Japon.* 11 (1966), 97-108. (Ky Fan) 34 #3522

Sur les convergences dans l'espace rangé. I. *Proc. Japan Acad.* 42 (1966), 473-476. (Ky Fan) 34 #3521

Sur le produit des espaces rangés. I. *Proc. Japan Acad.* 42 (1966), 477-481. (Ky Fan) 34 #3523

Sur le produit des espaces rangés. II. *Proc. Japan Acad.* 42 (1966), 611-615. (Ky Fan) 35 #2258

Sur les structures des espaces rangés. I. *Proc. Japan Acad.* 42 (1966), 616-619. (Ky Fan) 35 #2259

Sur les espaces duals des espaces de Stepanoff et de Weyl. I, II. *Proc. Japan Acad.* 42 (1966), 1060-1065; 1066-1070. (E. Følner) 35 #3437

Sur les convergences dans l'espace rangé. II. *Proc. Japan Acad.* 42 (1966), 1139-1143. (Ky Fan) 35 #4875

Sur les structures des espaces rangés. II. *Proc. Japan Acad.* 42 (1966), 1144-1148. (Ky Fan) 35 #4876

Sur la méthode des espaces rangés. III. *Proc. Japan Acad.* 43 (1967), 273-274. (Ky Fan) 35 #7285

Compactness in ranked spaces. *Proc. Japan Acad.* 44 (1968), 69-72. (Ky Fan) 37 #3506

(with Washihara, Masako) Remarks on bounded sets in linear ranked spaces. *Proc. Japan Acad.* 44 (1968), 73-76. (B. Fishel) 37 #6729

Compactness and completeness in ranked spaces. *Proc. Japan Acad.* 44 (1968), 251-254. (Ky Fan) 37 #3524

A remark on Baire's theorem in ranked spaces. *Proc. Japan Acad.* 44 (1968), 255-256. (Ky Fan) 37 #3507

Yoshihara, Kazuyuki

(with Fujii, Katsuhiko; Nishimura, Yukio) A conjugate gradient method reinforced by the random method. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 14 (1970), 344-353. (Authors' summary) 42 #3987

Yoshihara, Ken-ichi

Simple proofs for the strong converse theorems in some channels. *Kōdai Math. Sem. Rep.* 16 (1964), 213-222. (J. Wolfowitz) 30 #1866

Coding theorems for the compound semi-continuous memoryless channels. *Kōdai Math. Sem. Rep.* 17 (1965), 30-43. (H. Kesten) 31 #3237

The Shannon problem for a unique transmission method. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 13 (1966), 1-28. (J. Wolfowitz) 34 #7283

(with Negishi, Hiroshi) Semi-continuous channels with a past history. *Kōdai Math. Sem. Rep.* 19 (1967), 53-60. (T. Kailath) 35 #1404

(with Negishi, Hiroshi) On the capacity of a finite-memory semi-continuous channel. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 14 (1968), 1-5. (T. Kailath) 38 #4201

The information rate for continuous-parameter stationary Gaussian random processes. I. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 15 (1969), 1-8. (J. Wolfowitz) 40 #1192

The information rate for continuous-parameter stationary Gaussian random processes. II, III. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 16 (1970), 1-8; *ibid. No.* 16 (1970), 9-18. (J. Wolfowitz) 41 #9341

A criterion for the equivalence of two stationary Gaussian processes with, not necessarily rational, spectral densities. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 16 (1970), 19-32. (Simeon M. Berman) 41 #9342

A criterion for the equivalence of two multi-dimensional stationary Gaussian processes. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 16 (1970), 33-39. (Simeon M. Berman) 41 #9343

Some limit theorems connected with the entropy of a stationary process. *Sci. Rep. Yokohama Nat. Univ. Sect. I No.* 17 (1970), 49-59. (S. Csibi) 44 #1106

Yoshikawa, Atsushi

On the hypoellipticity of differential operators. *J. Fac. Sci. Univ. Tokyo Sect. I* 14, 81-88 (1967). (C. Clark) 36 #4388

Remarks on the theory of interpolation spaces. *J. Fac. Sci. Univ. Tokyo Sect. I* 15 (1968), 209-251. (R. S. Freeman) 40 #3300

An operator theoretical remark on the Hardy-Littlewood-Sobolev inequality. *J. Fac. Sci. Univ. Tokyo Sect. IA Math.* 17 (1970), 559-566. (R. S. Freeman) 44 #7364

Yoshikawa, Tsuneo

(with Sawaragi, Yoshikazu) Suboptimal control of systems with unknown parameters. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 11 (1967), 657-668. (Authors' summary) 42 #5683

(with Sawaragi, Yoshikazu) On upper and lower bounds for the performance of stochastic and adaptive control processes. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 463-472. (Authors' summary) 42 #4297

(with Sawaragi, Yoshikazu) On upper and lower bounds for performance of stochastic and adaptive control processes. II. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 12 (1968), 661-669. (Authors' summary) 42 #5694

(with Sawaragi, Yoshikazu) Performance bounds for discrete-time stochastic optimal control problems. *Internat. J. Control* (1) 10 (1969), 481-500. (R. S. Bucy) 40 #8460

(with Sawaragi, Yoshikazu; Ito, Koh-ichi) On the relation between performance indexes and sampling periods of digital contr. systems. (Japanese. English summary) *J. Japan Assoc. Automat. Control Engrs.* 13 (1969), 94-102. (Authors' summary) 42 #4273

(with Sawaragi, Yoshikazu) Discrete-time Markovian decision processes with incomplete state observation. *Ann. Math. Statist.* 41 (1970), 78-86. (J. R. Kinney) 41 #6343

Yoshimine, M.

(with McLean, A. D.) Mapping an arbitrary range into (-1,1) with a side condition: Application to numerical quadratures. *IBM J. Res. Develop* 9 (1965), 203-204. (P. J. Davis) 32 #6672

Yoshimori, Akio

(with Nakano, Huzio) On a statistical theory of spin relaxation. *Progr. Theoret. Phys.* 32 (1964), 685-702. (R. Kubo) 31 #4550

Yoshimura, Isao

(with Masuyama, Motosaburo) Tables of n, $\log_e n$ and $n \log_e n$ for $n = 0.5(0.5)200.0$. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 9 (1962), 137-181. 31 #5308

Scale correction of likelihood ratio test statistics related to contingency tables. *Rep. Statist. Appl. Res. Un. Japan. Sci. Engrs.* 10 (1963), 227-236. (K. G. Jöreskog) 33 #820

(with Sibuya, Masaaki; Shimizu, Ryoichi) Negative multinomia distribution. *Ann. Inst. Statist. Math.* 16 (1964), 409-426. (M. Dwass) 30 #1572

Unified system of cumulant recurrence relations. *Rep. Statis Appl. Res. Un. Japan. Sci. Engrs.* 11 (1964), 1-8. (M. Dwass) 30 #5391

A complementary note on the multivariate moment recurrence relation. *Rep. Statist. Appl. Res. Un. Japan Sci. Engrs.* 11 (1964 9-12. (M. Dwass) 30 #5392

Yoshimura, Tetz

Some considerations on the boundary conditions for functional differential equations. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 1160-1164. (W. Güttinger) 33 #2218

Some remarks on the condition $Z = 0$. *Nuovo Cimento A* (10) 40 (1965), 495-501. (W. Güttinger) 33 #2219

Yoshimura, Yoshimaru

(with Takenaka, Y.) Strain history effects in plastic deformation of metals. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp.* 729-750. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (R. Hill) 31 #1831

Yoshinaga, Etsuo

(with Ozaki, Shigeo; Kanai, Syouji) On flat families and complete families of analytic spaces onto complex manifold. *Math. Z.* 116 (1970), 258-263. (H. Kerner) 43 #3493

Yoshinaga, Kyôichi

On Liouville's differentiation. *Bull. Kyushu Inst. Tech. Math Natur. Sci. No.* 11 (1964), 1-17. (N. Dinculeanu) 30 #5071

Values of vector-valued distributions and smoothness of semi-group distributions. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No* 12 (1965), 1-27. (S. Łojasiewicz) 32 #6215

A note on the value and the multiplicative product of distributions. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 13 (1966), 5-13. (J. L. Griffith) 33 #7844

On values of distributions and semi-group distributions. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Tôhoku 1967) (Japanese), pp.* 45-63. *Math. Inst., Tôhoku Univ., Tôhoku,* 1967. (M. Itano) 44 #7365

Values of vector-valued distributions. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 14 (1967), 1-24. (S. Łojasiewicz) 37 #1990

Lorentz spaces and the Calderón-Zygmund theorem. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 16 (1969), 1-38. (J. Albrycht) 40 #3377

On a generalization of the interpolation method. *Bull. Kyushu Inst. Tech. Math. Natur. Sci. No.* 17 (1970), 1-23. (C. Goulaouic) 42 #2296

Yoshino, Takashi

(with Saitô, Teishirô) Note on the canonical decomposition of contraction. *Tôhoku Math. J.* (2) 16 (1964), 309-312. (J. M. G. Fell) 30 #5166

(with Saitô, Teishirô) On a conjecture of Berberian. *Tôhoku Math. J.* (2) 17 (1965), 147-149. (M. Schreiber) 32 #4547

On the spectrum of a hyponormal operator. *Tôhoku Math. J.* (2) 17 (1965), 305-309. (Chandler Davis) 32 #4548 (E)

(with Iştrăţescu, Vasile; Saitô, Teishirô) On a class of operators. *Tôhoku Math. J.* (2) 18 (1966), 410-413. (J. R. Ringros 35 #756

On hyponormal operators. (Japanese) *Fifth Functional Analysis Sympos. (Tôhoku Univ., Sendai, 1967) (Japanese), pp.* 1-11. *Math. Inst., Tôhoku Univ., Sendai,* 1967. (N. Suzuki) 44 #2074

Spectral resolution of a hyponormal operator with the spectrum on a curve. *Tôhoku Math. J.* (2) 19 (1967), 86-97. (G. H. Orland) 35 #7154

Correction: "On the spectrum of a hyponormal operator". *Tôhoku Math. J.* (2) 19 (1967), 101. (Editors) 35 #777

Nearly normal operators. *Tôhoku Math. J.* (2) 20 (1968), 1-4. (N. Suzuki) 37 #4638

On a problem of Bonsall. *Tôhoku Math. J.* (2) 20 (1968), 5-7. (F. F. Bonsall) 37 #2019 (E)

Subnormal operator with a cyclic vector. *Tôhoku Math. J.* (2) 21 (1969), 47-55. (P. A. Fillmore) 39 #7450

Correction: "On a problem of Bonsall". *Tôhoku Math. J.* (2) 21 (1969), 158. (F. F. Bonsall) 39 #4690

hino, Y.

* The Japanese abacus explained. With an introduction by Martin Gardner. *Dover Publications, Inc., New York,* 1963. xiii + 240 *pp.* (Editors) 29 #1117

shioka, Akiko

Sur les automorphismes bireguliers et birationnels d'un groupe unipotent. *Math. Japon.* 12 (1967), 107-116. (T. Ono) 38 #1097

Sur l'invariant de Dickson. *Proc. Japan Acad.* 45 (1969), 135-139. (K. G. Ramanathan) 41 #6882

(with Hijikata, Hiroaki) A remark on the group of orthogonal similitudes. *J. Math. Kyoto Univ.* 10 (1970), 433-437. (D. B. Hunter) 43 #4896

Structure du groupe des similitudes orthogonales. *Nagoya Math. J.* 40 (1970), 221-235. (D. G. James) 42 #4575

shioka, Chiko

On the non-embeddability of Dold's manifold. *Sci. Rep. Niigata Univ. Ser. A No.* 3 (1966), 1-8. (D. B. A. Epstein) 34 #5101

On the non-embeddability of Dold's manifold. II. *Sci. Rep. Niigata Univ. Ser. A No.* 4 (1967), 7-16. (D. B. A. Epstein) 35 #3693

On the higher order non-singular immersion. *Sci. Rep. Niigata Univ. Ser. A No.* 5 (1967), 23-30. (W. F. Pohl) 38 #1690

shioka, Iwao

(with Ikenaga, Shogo) Extensions of topologies. *Proc. Japan Acad.* 41 (1965), 11-16. (V. S. Krishnan) 31 #6210

shioka, Tomoaki

(with Watabe, Tsuyoshi) On the imbeddability and immersibility of the total spaces of sphere bundles over real projective space. *Sci. Rep. Niigata Univ. Ser. A No.* 2 (1965), 26-32. (J. P. Levine) 36 #7153

shioka, Toshihiko

(with Torii, Tatsuo) On the separation of all roots of a polynomial by determining the number of roots in the unit circle. *Information Processing in Japan* 7 (1967), 48-53. (A. S. Householder) 38 #2946

shioka, Tsunéo

(with Nishino, Toshio) Sur l'itération des transformations rationnelles de l'espace de deux variables complexes. *Ann. Sci. École Norm. Sup.* (3) 82 (1965), 327-376 (I. N. Baker) 34 #2936

(with Nishino, Toshio) Sur l'itération des transformations rationnelles entières de l'espace de deux variables complexes. *C. R. Acad. Sci. Paris* 260 (1965), 3835-3837. (A. Aeppli) 31 #2420

shitani, Reo

On the detectability limit of coherent optical signals in thermal radiation. *J. Statist. Phys.* 2 (1970), 347-378. (J. M. Jauch) 42 #4153

shizawa, Hisaaki

(with Hida, Takeyuki; Kubo, Izumi; Nomoto, Hisao) On projective invariance of Brownian motion. *Publ. Res. Inst. Math. Sci. Ser. A* 4 (1968/69), 595-609. (S. J. Taylor) 39 #4934

An outline of the theory of unitary representations. (Japanese) *Sûgaku* 19 (1968), 194-204. (T. Ono) 43 #3399

Rotation group of Hilbert space and its application to Brownian motion. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969*), pp.* 414-423. *Univ. of Tokyo Press, Tokyo,* 1970. (W. A. Woyczyński) 41 #9358

shizawa, Kinzō

A note on determinants. *Sci. Rep. Saitama Univ. Ser. A* 6, *no.* 2, 23-26 (1969). (G. F. Clements) 42 #3099

shizawa, Shuji

(with Kitada, Yasuhiko) Some properties of a simplified nerve equation. *Math. Biosci.* 5 (1969), 385-390. (J. D. Cowan) 42 #7303

Population growth process described by a semilinear parabolic equation. *Math. Biosci.* 7 (1970), 291-303. (G. Dunkel) 42 #8945

shizawa, Tadashi

(with Moriguti, Sigeiti) Auto-correlation coefficient of accumulated round-off errors on numerical solutions to ordinary differential equations. *Information Processing in Japan* 5 (1965), 16-23. (E. A. Robinson) 38 #1852

Yoshizawa, Taro

Asymptotic stability of a set in the large and Liapunov functions. (Russian and Polish summaries) *Nonlinear Vibration Problems,* 5*, Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 52-57. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (W. A. Coppel) 36 #6721

Extreme stability and almost periodic solutions of functional -differential equations. *Arch. Rational Mech. Anal.* 17 (1964), 148-170. (J. J. Schäffer) 29 #3734

Some notes on stability of sets and perturbed system. *Funkcial. Ekvac.* 6 (1964), 1-11. (J. O. C. Ezeilo) 31 #446

Asymptotic stability of solutions of an almost periodic system of functional-differential equations. *Rend. Circ. Mat. Palermo* (2) 13 (1964), 209-221. (J. K. Hale) 32 #2693

* Stability theory by Liapunov's second method. Publications of the Mathematical Society of Japan, No. 9. *The Mathematical Society of Japan, Tokyo,* 1966. viii + 223 *pp.* (G. P. Szegő) 34 #7896

Eventual properties and quasi-asymptotic stability of a noncompact set. *Funkcial. Ekvac.* 8 (1966), 79-90. (L. Markus) 33 #6053

(with Kato, Junji) Linear system and its perturbed system. *Funkcial. Ekvac.* 9 (1966), 9-15. (F. Brauer) 35 #490

(with Kato, Junji) Asymptotic behavior of solutions near integral manifolds. *Differential Equations and Dynamical Systems (Proc. Internat. Sympos., Mayaguez, P. R.,* 1965*), pp.* 267-275. *Academic Press, New York,* 1967. (W. J. Coles) 37 #3118

Stability and existence of periodic and almost periodic solutions. *Seminar on Differential Equations and Dynamical Systems (Univ. Maryland,* 1967*), pp.* 20-25. *Springer, Berlin,* 1968. (Editors) 38 #2387

Existence of a globally uniform-asymptotically stable periodic and almost periodic solution. *Tôhoku Math. J.* (2) 19 (1967), 423-428. (B. Porter) 37 #525

Stability and existence of a periodic solution. *J. Differential Equations* 4 (1968), 121-129. (R. Liu) 36 #5448

Asymptotically almost periodic solutions of an almost periodic system. *Funkcial. Ekvac.* 12 (1969), 23-40. (G. R. Sell) 41 #2132

(with Kato, Junji) A relationship between uniformly asymptotic stability and total stability. *Funkcial. Ekvac.* 12 (1969/70), 233-238. (A. Strauss) 41 #2147

Oscillatory property of solutions of second order differential equations. *Tôhoku Math. J.* (2) 22 (1970), 619-634. (J. W. Macki) 43 #7714

Yosida, K.

M. Hukuhara. *Funkcial. Ekvac.* 9 (1966), iv-v. (Editors) 34 #7324

M. Nagumo. *Funkcial. Ekvac.* 9 (1966), vii-viii. (Editors) 34 #7327

Mathematical works of Professor Kôsaku Yosida. *J. Fac. Sci. Univ. Tokyo Sect. I* 17 (1970), i-xv. (Editors) 43 #4617

Yosida, Kei

(with Okiji, A.) Long-range magnetic coupling in metals. *Phys. Rev. Lett.* 14 (1965), 301-302. (M. Fowler) 31 #5639

Yosida, Kôsaku

* Functional analysis. Die Grundlehren der Mathematischen Wissenschaften, Band 123. *Academic Press, Inc., New York; Springer-Verlag, Berlin,* 1965. xi + 458 *pp.* (Ivan Singer) 31 #5054

Time dependent evolution equations in a locally convex space. *Math. Ann.* 162 (1965/66), 83-86. (J. Prouse) 32 #7910

Positive pseudo-resolvents and potentials. *Proc. Japan Acad.* 41 (1965), 1-5. (A. B. Simon) 31 #5104

A perturbation theorem for semi-groups of linear operators. *Proc. Japan Acad.* 41 (1965), 645-647. (A. V. Balakrishnan) 33 #6422

On holomorphic Markov processes. *Proc. Japan Acad.* 42 (1966), 313-317. (E. S. Boylan) 34 #6864

* Функциональный анализ. (Russian) [Functional analysis] Translated from the English by V. M. Volosov. *Izdat. "Mir", Moscow,* 1967. 624 *pp.* (Editors) 37 #725

Positive resolvents and potentials. An operator-theoretical treatment of Hunt's theory of potentials. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 210-218. (G. E. Denzel) 35 #6858

* Functional analysis. Second edition. Die Grundlehren der mathematischen Wissenschaften, Band 123. *Springer-Verlag New York Inc., New York,* 1968. xii + 465 *pp.* (Editors) 39 #741

(with Watanabe, Takeshi; Tanaka, Hiroshi) On the pre-closedness of the potential operator. *J. Math. Soc. Japan* 20 (1968), 419-421. (D. W. Stroock) 37 #4282

The existence of the potential operator associated with an equicontinuous semigroup of class (C_0). *Studia Math.* 31 (1968), 531-533. (H. P. McKean, Jr.) 38 #2841

The pre-closedness of Hunt's potential operators and its applications. *Proc. Internat. Conf. on Functional Analysis and Related Topics (Tokyo,* 1969*), pp.* 324-331. *Univ. of Tokyo Press, Tokyo,* 1970. (D. W. Stroock) 41 #9354

On the potential operators associated with Brownian motions. *J. Analyse Math.* 23 (1970), 461-465. (G. E. Denzel) 42 #8569

Yosida, Setuzô

Hukuhara's problem for partial differential equations. *Funkcial. Ekvac.* 8 (1965), 5-37. (S. Cinquini) 33 #1576

Boundary value problem with Hukuhara's data for parabolic systems. *Funkcial. Ekvac.* 9 (1966), 61-69. (S. Cinquini) 35 #3268

Hukuhara's problem for equations of evolution. *Publ. Res. Inst. Math. Sci. Ser. A* 2 (1966/67), 361-382. (S. Cinquini) 35 #3269

Hukuhara's problem with lags. *Funkcial. Ekvac.* 10 (1967), 175-203. (S. Cinquini) 37 #3222

Yosida, Tokunosuke

On the critical points of harmonic functions. *Proc. Japan Acad.* 45 (1969), 559-560. (M. M. Schiffer) 42 #479

Yosida, Yôiti

* Kansû ron. (Japanese) [Theory of functions] Second edition. Iwanami Collection, No. 141. *Iwanami Shoten, Tokyo,* 1966. xi + 288 *pp.* (C. Tanaka) 36 #1611

Yosida, Yosikatsu

Induced distributions of the Laplace transformation and their applications. (Spanish) *Repúb. Venezuela Bol. Acad. Ci Fís. Mat. Natur.* 26 (1966), *no.* 72, 77-78. 35 #3381

Yotsuya, Ichizô

(with Ogawa, Shirô; Kayano, Takashi) Some radii associated with polyharmonic equations. *Proc. Japan Acad.* 47 (1971), 44-49. (J. Lelong-Ferrand) 44 #4230

Yottani, Tokumasa

On a warehousing problem of two kinds of commodity. *Res. Bull. Fac. Ed. Oita Univ.* 3 (1969), *no.* 4, 5-9. (V. Ionescu) 41 #3085

On a stochastic linear programming. *Res. Bull. Fac. Ed. Oita Univ.* 3 (1970), *no.* 5, 5-8. (K. Wickwire) 44 #3685

You, Cheng-ye

A proof of Pitcher inequalities of the critical point theory. (Chinese, English summary) *Acta Sci. Natur. Univ. Pekinensis* 10 (1964), 207-210. (Author's summary) 29 #3519

You Bing-li. See Yu Ping-li.

You Cen-sun. See Yu Ching-shun.

You Chia-yung. See Yu Chia-yung.

Youden, W. W.

* Computer literature bibliography, 1946 to 1963. National Bureau of Standards Miscellaneous Publication 266. *Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 1965. iv + 463 *pp.* (Editors) 31 #4208

Youla, Dante C.

The synthesis of networks containing lumped and distributed elements. *Proc. Sympos. on Generalized Networks (New York, 1966), pp.* 289-343. *Polytechnic Press, Brooklyn, N. Y.,* 1966. (Author's summary) 43 #6015

Two theorems on positive-real functions and their application to the synthesis of symmetric and antimetric filters. *IEEE Trans. Circuit Theory* CT-13 (1966), 18-31. (B. J. Leon) 40 #2456

(with Anderson, B. D. O.; Newcomb, R. W.; Kalman, R. E.) Equivalence of linear time-invariant dynamical systems. (With discussion) *J. Franklin Inst.* 281 (1966), 371-378. (Y. C. Ho) 33 #7173

The synthesis of linear dynamical systems from prescribed weighting patterns. *SIAM J. Appl. Math.* 14 (1966), 527-549. (Leonard Weiss) 34 #4026

(with Saito, M.) Interpolation with positive-real functions. *J. Franklin Inst.* 284 (1967), 77-108. (J. H. Curtiss) 41 #484

(with Dorato, P.) On the comparison of the sensitivities of open-loop and closed-loop optimal control systems. *IEEE Trans. Automatic Control* AC-13 (1968), 186-188. (Authors' summary) 39 #3872

Young, A. T.

Table errata: *Tables of integral transforms. Math. Comp.* 24 (1970), 239. (Editors) 41 #2306

Young, Andrew

(with Barrodale, Ian) A note on numerical procedures for approximation by spline functions. *Comput. J.* 9 (1966), 318-320. (From the authors' summary) 34 #2151

(with Barrodale, Ian) Algorithms for best L_1 and L_∞ linear approximations on a discrete set. *Numer. Math.* 8 (1966), 295-306. (J. R. Rice) 33 #5096

Young, D. H.

Recurrence relations between the P.D.F.'s of order statistics of dependent variables, and some applications. *Biometrika* 54 (1967), 283-292. (Benjamin Epstein) 35 #7532

A note on the first two moments of the mean deviation of the symmetrical multinomial distribution. *Biometrika* 54 (1967), 312-314. (Author's summary) 35 #5042

The order statistics of the negative binomial distribution. *Biometrika* 57 (1970), 181-186. 42 #8636

Young, David M.

(with Birkhoff, Garrett; Varga, Richard S.) Alternating direction implicit methods. *Advances in Computers, Vol.* 3, *pp.* 189-273. *Academic Press, New York,* 1962. (J. Douglas, Jr.) 29 #5395

(with Wheeler, Mary Fanett) Alternating direction methods for solving partial difference equations. *Nonlinear Problems of Engineering, pp.* 220-246. *Academic Press, New York,* 1964. (M. Lees) 30 #4395

(with Dauwalder, John H.) Discrete representations of partial differential operators. *Error in Digital Computation, Vo 2 (Proc. Sympos. Math. Res. Center, U. S. Army, Univ. Wisconsin, Madison, Wis.,* 1965*), pp.* 181-217. *Wiley, New York,* 1965. (E. Isaacson) 33 #894

(with McDonald, Alvis E.) On the surveillance and control of number range and accuracy in numerical computation. (With discussion) *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol. 1: Mathematics, Software, pp.* 145-152. *North-Holland, Amsterdam,* 1969. (From the authors' summary) 40 #8303

Convergence properties of the symmetric and unsymmetric successive overrelaxation methods and related methods. *Math. Comp.* 24 (1970), 793-807. (C. Froese Fischer) 43 #7049

Young, Eutiquio C.

(with Miles, E. P., Jr.) On a Cauchy problem for a generalized Euler-Poisson-Darboux equation with polyharmonic data. *J. Differential Equations* 2 (1966), 482-487. (H. F. Weinberger) 34 #7989

On a method of determining the Riesz kernel for the Euler-Poisson-Darboux operator. *J. Math. Anal. Appl.* 16 (1966), 355-362. (Y. Hayashi) 34 #3133

On a Cauchy problem for the damped wave equation. *J. Differential Equations* 3 (1967), 228-235. (A. Langenbach) 35 #3292

A solution of the singular Cauchy problem for the nonhomogeneous Euler-Poisson-Darboux equation. *J. Differential Equatio* 3 (1967), 522-545. (R. C. Gilbert) 36 #2996

The characteristic initial value problem for the wave equati in n dimensions. *J. Math. Mech.* 17 (1967/68), 885-889. (A. K. Aziz) 36 #2992

(with Miles, E. P., Jr.) Basic sets of polynomials for generalized Beltrami and Euler-Poisson-Darboux equations and thei iterates. *Proc. Amer. Math. Soc.* 18 (1967), 981-986. (H. F. Weinberger) 36 #1855

On a generalized Euler-Poisson-Darboux equation. *J. Math. Mech.* 18 (1968/69), 1167-1175. (L. E. Payne) 39 #5969

Riemann's method and the characteristic value and Cauchy problems for the damped wave equation. *Glasgow Math. J.* 10 (1969), 147-152. (J. Vaillant) 43 #730

(with Miles, E. P., Jr.) On certain reflection principles. *Portugal. Math.* 28 (1969), 83-89. (Ü. Kuran) 44 #1832

A characteristic initial value problem for the Euler-Poisson Darboux equation. *Ann. Mat. Pura Appl.* (4) 85 (1970), 357-367. (L. E. Payne) 41 #7297

Uniqueness theorems for certain improperly posed problems. *Bull. Amer. Math. Soc.* 77 (1971), 253-256. (Z. C. Motteler) 42 #3426

(with Diaz, J. B.) Uniqueness of solutions of certain boundary value problems for ultrahyperbolic equations. *Proc. Amer. Ma Soc.* 29 (1971), 569-574. (A. K. Aziz) 44 #626

Uniqueness of solutions of the Dirichlet and Neumann problem for hyperbolic equations. *Trans. Amer. Math. Soc.* 160 (1971), 403-409. (D. L. Russell) 43 #7777

Young, Frederick J.

(with Huang, H.) Effects of external circuit and wall conditions on magnetohydrodynamic free convection between two heated walls. (German summary) *Z. Angew. Math. Phys.* 15 (1964), 419-425. (M. N. L. Narasimhan) 32 #731

Young, Gail S., Jr.

A condition for the absolute homotopy extension property. *Amer. Math. Monthly* 71 (1964), 896-897. (D. G. Bourgin) 31 #4036

The inversion of Peano continua by analytic functions. *Fund. Math.* 56 (1964/65), 301-311. (P. T. Church) 30 #4936

(with Kuratowski, K.; Nadler, S. B., Jr.) Continuous selections on locally compact separable metric spaces. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 5-11. (E. Michael) 41 #9221

Locally sense-preserving mappings with some applications to partial differential equations. *Proc. First Conf. on Monotone Mappings and Open Mappings (SUNY at Binghamton, Binghamton, N. Y.,* 1970*), pp.* 360-389. *State Univ. of New York at Binghamton, Binghamton, N. Y.,* 1971. (P. T. Church) 43 #5502

Young, Gale

(with Nelson, P., Jr.) Minimizing the natural fuel requirement for nuclear reactor power systems: A nonstandard optimal control problem. *J. Optimization Theory Appl.* 2 (1968), 138-154. (L. Cesari) 41 #1410

(with Nelson, Paul, Jr.) A class of nonstandard optimal cont problems with application to nuclear reactor economics. *SIAM J. Control* 6 (1968), 281-302. (L. D. Berkovitz) 38 #6866 ung, H. Peyton

(with Murty, U. S. R.; Edmonds, Jack) Equicardinal matroids and matroid-designs. *Proc. Second Chapel Hill Conf. on Combinatorial Mathematics and its Applications (Univ. North Carolina, Chapel Hill, N. C., 1970), pp.* 498-542. *Univ. North Carolina, Chapel Hill, N. C.,* 1970. (From the authors' introduction) 42 #1685

A quick proof of Wagner's equivalence theorem. *J. London Math. Soc.* (2) 3 (1971), 661-664. (R. E. Greenwood) 44 #3925

ung, Henry A.

On the optimum location of checking stations. *Operations Res.* 11 (1963), 721-731. (A. Wouk) 29 #1060

(with Fleischer, Isidore) The differential form of the recursive equation for partial optima. *J. Math. Anal. Appl.* 9 (1964), 294-302. (K. L. Cooke) 30 #1876

ung, James E.

Resummation in the many-nucleon problem. *Nuclear Phys.* 51 (1964), 1-26. (A. J. Layzer) 31 #4495

(with Jones, C. Edward; Low, F. E.) Generalized O(2,1) expansion for asymptotically growing amplitudes. *Ann. Physics* 63 (1971), 476-496. (G. R. Allcock) 43 #7139

(with Jones, C. E.; Low, F. E.) Generalized O(2,1) expansions for asymptotically growing amplitudes. II. Space-time region. *Ann. Physics* 70 (1972), 286-297. (G. R. Allcock) 44 #7849

ung, John Wesley

* (with Veblen, Oswald) Projective geometry. Vol. 1. *Blaisdell Publishing Co.* [*Ginn and Co.*], *New York-Toronto-London,* 1965. x + 345 *pp.* (Editors) 31 #3912a

* (with Veblen, Oswald) Projective geometry. Vol. 2 (by Oswald Veblen). *Blaisdell Publishing Co. Ginn and Co., New York-Toronto-London,* 1965. x + 511 *pp.* (Editors) 31 #3912b

ung, Jonathan D.

Linear program approach to linear differential problems. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 2 (1964), 413-416. (Author's summary) 29 #6633

ung, K. P.

(with Blodgett, R. E.) A combined time-frequency condition for stability of time-varying systems with one nonlinearity. *Eleventh Joint Automatic Control Conf. of Amer. Automatic Control Council (Georgia Inst. Tech., Atlanta, Ga.,* 1970*), pp.* 258-264. *Amer. Soc. Mech. Engrs., New York,* 1970. (Authors' summary) 41 #8073

ung, Kiang-chuen

Unified approach to the representations of groups SU(2) and SU(1,1). *Canad. J. Phys.* 48 (1970), 1272-1282. (A. J. Coleman) 42 #5536

ung, Lael M.

A solution of the general cyclic quintic. (Romanian summary) *Bul. Inst. Politehn. Iaşi (N.S.)* 12(16) (1966), *fasc.* 1-2, 21-26. (P. Abellanas) 35 #2869

ung, Laurent Chisholm

Some extremal questions for simplicial complexes. II. On the "radius times periphery" problem for area. *Rend. Circ. Mat. Palermo* (2) 11 (1962), 271-279. (W. H. Fleming) 29 #5985

(See also Lebesgue, Henri, 29 #3915)

Constructions élémentaires et méthodes abstraites dans le calcul des variations généralisé. [*Atti Convegno Lagrangiano (Torino,* 1963*) Atti Accad. Sci. Torino* 98 (1963/64), *suppl.*], *pp.* 120-137. *Accad. Sci., Torino,* 1964. (L. Cesari) 31 #2646

Some extremal questions for simplicial complexes. III. Problems of the geometry and analysis of the higher Euclidean spaces. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 41-58. (W. H. Fleming) 29 #5986

(with Fleming, W. H.) Some extremal questions for simplicial complexes. IV. The algebraic and the geometric resultant, an application of variational methods. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 200-210. (W. P. Ziemer) 29 #5987

Some extremal questions for simplicial complexes. V. The relative area of a Klein bottle. *Rend. Circ. Mat. Palermo* (2) 12 (1963), 257-274. (W. P. Ziemer) 29 #4872

* The theory of integration. Cambridge Tracts in Mathematics and Mathematical Physics, No. 21. *Stechert-Hafner, Inc., New York,* 1964. vii + 52 *pp.* (Editors) 32 #188

Generalized varieties as limits. *J. Math. Mech.* 13 (1964), 673-692. (U. D'Ambrosio) 29 #4873

A theory of boundary values. *Proc. London Math. Soc.* (3) 14a (1965), 300-314. (L. Cesari) 31 #5121

* Lectures on the calculus of variations and optimal control theory. Foreword by Wendell H. Fleming. *W. B. Saunders Co., Philadelphia-London-Toronto, Ont.,* 1969. xi + 331 *pp.* (M. R. Hestenes) 41 #4337

Some new stochastic integrals and Stieltjes integrals. I. Analogues of Hardy-Littlewood classes. *Advances in Probability and Related Topics, Vol.* 2*, pp.* 161-240. *Dekker, New York,* 1970. (H. P. McKean, Jr.) 44 #4177

oung, Paul R.

A note on pseudo-creative sets and cylinders. *Pacific J. Math.* 14 (1964), 749-753; *correction, ibid.* 14 (1964), 1506. (J. R. Shoenfield) 29 #18

On reducibility by recursive functions. *Proc. Amer. Math. Soc.* 15 (1964), 889-892. (G. E. Sacks) 31 #3330

On semi-cylinders, splinters, and bounded-truth-table reducibility. *Trans. Amer. Math. Soc.* 115 (1965), 329-339. (C. E. M. Yates) 35 #54

Linear orderings under one-one reducibility. *J. Symbolic Logic* 31 (1966), 70-85. (T. G. McLaughlin) 38 #48

A theorem on recursively enumerable classes and splinters. *Proc. Amer. Math. Soc.* 17 (1966), 1050-1056. (M. B. Pour-El) 34 #7371

On pseudo-creative sets, splinters, and bounded-truth-table reducibility. *Z. Math. Logik Grundlagen Math.* 13 (1967), 25-31. (A. H. Lachlan) 34 #2457

(with Ritchie, Robert W.) Strong representability of partial functions in arithmetic theories. *Information Sci.* 1 (1968/69), 189-204. (L. Hay) 41 #3276

An effective operator, continuous but not partial recursive. *Proc. Amer. Math. Soc.* 19 (1968), 103-108. (T. G. McLaughlin) 37 #5093

Toward a theory of enumerations. *J. Assoc. Comput. Mach.* 16 (1969), 328-348. (R. E. Stearns) 39 #2542

Young, R. M.

On the Cauchy problem for the *n*-dimensional wave equation. *Proc. Edinburgh Math. Soc.* (2) 15 (1966), 29-32. (J. H. Harris) 34 #4712

Young, Ralph H.

(with Deal, Walter J., Jr.) Adiabatic response to an oscillatory field. *J. Mathematical Phys.* 11 (1970), 3298-3306. (A. Pozzi) 42 #8843

Young, Richard D.

A primal (all-integer) integer programming algorithm. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 213-250. (Author's summary) 32 #9055

A simplified primal (all-integer) integer programming algorithm. *Operations Res.* 16 (1968), 750-782. (Egon Balas) 40 #8448

(See also Hu, T. C., 41 #8025)

Young, S. S. Y.

(with Tallis, G. M.) Maximum likelihood estimation of parameters of the normal, log-normal, truncated normal and bivariate normal distributions from grouped data. *Austral. J. Statist.* 4 (1962), 49-54. (A. C. Cohen) 31 #6307

Young, Samuel S. H.

On the sum of homological dimension and codimension of modules over a semi-local ring. *Nagoya Math. J.* 33 (1968), 165-172. (W. V. Vasconcelos) 38 #5763

An arithmetical problem involving the sum of integers in A.P. *Math. Mag.* 43 (1970), 89-92. (I. Danicic) 41 #6767

(with Wong, Yung-chow) On the lengths and the numbers of congruence classes of closed geodesics in Grassman manifolds. *Tôhoku Math. J.* (2) 22 (1970), 604-612. (R. L. Bishop) 43 #6944

Young, Sam W.

Piecewise monotone polynomial interpolation. *Bull. Amer. Math. Soc.* 73 (1967), 642-643. (H. Werner) 35 #3326

Polynomial factors of light mappings on an arc. *Fund. Math.* 62 (1968), 49-52. (Edwin Duda) 36 #7114

The representation of chainable continua with only two bonding maps. *Proc. Amer. Math. Soc.* 23 (1969), 653-654. (O. G. Harrold) 40 #6515

Finitely generated semigroups of continuous functions on [0,1]. *Fund. Math.* 68 (1970), 297-305. (V. J. Mancuso) 42 #2454

Young, Tzay Y.

Epoch detection. A method for resolving overlapping signals. *Bell System Tech. J.* 44 (1965), 401-426. (W. L. Root) 32 #9129

Binomial-weighted orthogonal polynomials. *J. Assoc. Comput. Mach.* 14 (1967), 120-127. (Author's summary) 35 #3109

(with Lichtenstein, Martin G.) The resolution of closely spaced signals. *IEEE Trans. Information Theory* IT-14 (1968), 288-293. (Authors' summary) 40 #2429

Young, W. H.

Solutions of the density matrix-pairing tensor equations of superconductivity theory. *Phys. Rev.* (2) 131 (1963), 476-479. (H. E. Rorschach, Jr.) 31 #6615

Young, W. L.

A product space with the fixed point property. *Proc. Amer. Math. Soc.* 25 (1970), 313-317. (B. J. Ball) 41 #1037

Youngdahl, Carl K.

On the completeness of a set of stress functions appropriate to the solution of elasticity problems in general cylindrical coordinates. *Internat. J. Engrg. Sci.* 7 (1969), 61-79. (F. Erdogan) 39 #1160

Younger, D. H.

Maximum families of disjoint directed cut sets. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 329-333. *Academic Press, New York,* 1969. (C. St. J. A. Nash-Williams) 41 #3324 (with McWhirter, I. P.) Strong covering of a bipartite graph. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 251-253. *Gordon and Breach, New York,* 1970. (A. C. Shershin) 42 #1700

Hall's theorem and strong covering. *Proc. Louisiana Conf. on Combinatorics, Graph Theory and Computing (Louisiana State Univ., Baton Rouge, La., 1970), pp.* 362-373. *Louisiana State Univ., Baton Rouge, La.,* 1970. (M. Aigner) 42 #5846

(with McWhirter, I. P.) Strong covering of a bipartite graph. *J. London Math. Soc.* (2) 3 (1971), 86-90. (R. L. Hemminger) 43 #6125

Younglove, J. N.

Separability and compactness in pointwise paracompact spaces. *Amer. Math. Monthly* 71 (1964), 412-413. (D. G. Bourgin) 29 #592

Two conjectures in point set theory. *Topology Seminar (Wisconsin, 1965), pp.* 121-123. *Ann. of Math. Studies, No.* 60, *Princeton Univ. Press, Princeton, N. J.,* 1966. (F. Burton Jones) 36 #849

(with Traylor, D. R.) On normality and pointwise paracompactness. *Pacific J. Math.* 25 (1968), 193-196. (J. W. Rogers, Jr.) 37 #6909

A locally connected, complete Moore space on which every real-valued continuous function is constant. *Proc. Amer. Math. Soc.* 20 (1969), 527-530. (W. R. Utz) 40 #1992

Youngs, J. W. T.

(with Terry, C. M.; Welch, L. R.) The genus of K_n, $n=12(2^m)$. *Bull. Amer. Math. Soc.* 71 (1965), 653-656. (J. B. Giever) 31 #4022a

(with Terry, C. M.; Welch, L. R.) The genus of K_n, $n=12s$. *Bull. Amer. Math. Soc.* 71 (1965), 657-660. (J. B. Giever) 31 #4022b

The Heawood map coloring conjecture. *Graph Theory and Theoretical Physics, pp.* 313-354. *Academic Press, London,* 1967. (R. K. Guy) 38 #4357

(with Terry, C. M.; Welch, L. R.) The genus of K_{12s}. *J. Combinatorial Theory* 2 (1967), 43-60. (R. C. Read) 34 #6755

Remarks on the Heawood conjecture: Nonorientable case. *Bull. Amer. Math. Soc.* 74 (1968), 347-353. (R. C. Read) 36 #3675

The nonorientable genus of K_n. *Bull. Amer. Math. Soc.* 74 (1968), 354-358. (R. C. Read) 36 #3676

(with Ringel, Gerhard) Solution of the Heawood map-coloring problem. *Proc. Nat. Acad. Sci. U.S.A.* 60 (1968), 438-445. (K. Wagner) 37 #3959

(with Ringel, Gerhard) Remarks on the Heawood conjecture. *Proof Techniques in Graph Theory (Proc. Second Ann Arbor Graph Theory Conf., Ann Arbor, Mich., 1968), pp.* 133-138. *Academic Press, New York,* 1969. (G. J. Minty) 40 #5497

(with Ringel, Gerhard) Lösung des Problems der Nachbargebiete. *Arch. Math. (Basel)* 20 (1969), 190-201. (J. W. Moon) 39 #4049

(with Ringel, Gerhard) Solution of the Heawood map-coloring problem--case 11. *J. Combinatorial Theory* 7 (1969), 71-93. (K. Wagner) 39 #1360

(with Ringel, Gerhard) Solution of the Heawood map-coloring problem--case 2. *J. Combinatorial Theory* 7 (1969), 342-352. (K. Wagner) 42 #128

(with Ringel, Gerhard) Solution of the Heawood map-coloring problem--case 8. *J. Combinatorial Theory* 7 (1969), 353-363. (M. Aigner) 41 #6723

The mystery of the Heawood conjecture. *Graph Theory and its Applications (Proc. Advanced Sem., Math. Research Center, Univ. of Wisconsin, Madison, Wis., 1969), pp.* 17-50. *Academic Press, New York,* 1970. (F. Bernhart) 42 #2982

(with Ringel, Gerhard) Das Geschlecht des vollständigen dreifärbbaren Graphen. *Comment Math. Helv.* 45 (1970), 152-158. (J. W. Moon) 41 #6724

(with Terry, C. M.; Welch, L. R.) Solution of the Heawood map-coloring problem—case 4. *J. Combinatorial Theory* 8 (1970), 170-174. (K. Wagner) 41 #3321

Solution of the Heawood map-coloring problem—cases 3, 5, 6, and 9. *J. Combinatorial Theory* 8 (1970), 175-219. (K. Wagner) 41 #3322

The Heawood map-coloring problem—cases 1, 7, and 10. *J. Combinatorial Theory* 8 (1970), 220-231. (K. Wagner) 41 #3323

Younis, Ali Hussain

On right quasi-regularity in a general ring. (Arabic summary) *Bull. College Sci. (Baghdad)* 11 (1970), 51-53. (C. J. Penning) 42 #1865

Yourgrau, Wolfgang

(with Works, Chandler) Note on duality in propositional calculus. *Notre Dame J. Formal Logic* 9 (1968), 284-288. 39 #2602

Youschkevitch, A. P. See Juškevič, Adol′f Pavlovič.

You Zhao-yong. See Yu Chao-yung.

Ysidro Edgeworth, Francis. See Edgeworth, Francis Ysidro.

Yu, Chung Ling

Reflection principle for solutions of higher order elliptic equations with analytic coefficients. *SIAM J. Appl. Math.* 20 (1971), 358-363. (C. B. Morrey, Jr.) 44 #7114

Yu, Či Min′. See Ch'i Min-yu.

Yu, Er-yung

Fundamental solution of the linear Boltzmann equation. *Phy Fluids* 10 (1967), 2466-2474. (Author's summary) 36 #4882

Yu, T. K.

(with Seinfeld, J. H.) Observability of a class of hyperbc distributed parameter systems. *IEEE Trans. Automatic Control* AC-16 (1971), 495-497. (Yaakov Yavin) 44 #6370

Yu, Wen Neng

(with Tachibana, Shun-ichi) On a Riemannian space admittin more than one Sasakian structures. *Tôhoku Math. J.* (2) 22 (197 536-540. (C. B. Allendoerfer) 43 #1086

Yu, Why Chen. See Chen.

Yu, Yi-yuan

Generalized Hamilton's principle and variational equation motion in nonlinear elasticity theory, with application to plate theory. *J. Acoust. Soc. Amer.* 36 (1964), 111-120. (W. D. Kroll 29 #1799

On linear equations of isotropic elastic plates and shells. *J. Franklin Inst.* 280 (1965), 395-416. (W. D. Kroll) 32 #85

On linear equations of anisotropic elastic plates. *Quart. Appl. Math.* 22 (1965), 357-360. (R. M. Morris) 32 #4948

Yu, Yun-Sheng

(with Sun, Dah-Chen) Stability of a viscous flow between rotating coaxial cylinders. *J. Franklin Inst.* 277 (1964), 140-1 (D. R. Breach) 29 #1837

Yuah, Shih Chow. See Chow, Yuah Shih.

Yuan, Chao-din. See Juan, Čzao-din.

Yuan′, Čzao-din. See Juan, Čzao-din.

Yuan, John S. C.

(with Wagner, Harvey M.) Algorithmic equivalence in linear fractional programming. *Management Sci.* 14 (1968), 301-306. (W. F. Tyndall) 39 #5142

Yuan, Shuen

Differentiably simple rings of prime characteristic. *Duke Math. J.* 31 (1964), 623-630. (Rimhak Ree) 29 #4772

On the Brauer groups of local fields. *Ann. of Math.* (2) 82 (1965), 434-444. (A. Brumer) 32 #2449

On the theory of *p*-algebras and the Amitsur cohomology group for inseparable field extensions. *J. Algebra* 5 (1967), 280-304. (S. A. Amitsur) 37 #4128

On logarithmic derivatives. *Bull. Soc. Math. France* 96 (196 41-52. (J. Ohm) 38 #5764

Inseparable Galois theory of exponent one. *Trans. Amer. Mat Soc.* 149 (1970), 163-170. (H. F. Kreimer) 41 #1717

Finite dimensional inseparable algebras. *Trans. Amer. Math. Soc.* 150 (1970), 577-587. (J. Ohm) 41 #6836

Central separable algebras with purely inseparable splitting rings of exponent one. *Trans. Amer. Math. Soc.* 153 (1971), 427-450. (H. F. Kreimer) 42 #3074

Yŭcel, Nadir

Sur la théorie du simplexe dans la programmation linéaire. (Turkish summary) *İstanbul Tek. Üniv. Bül.* 22 (1969), *no.* 1, 43-56. (A. Jaeger) 42 #5633

Yu Chao-yung

Convergence of a procedure of alternate substitution. (Chines *Shuxue Jinzhan* 9 (1966), 205-208. 38 #2645

Yu Chia-yung

Approximation of functions on the positive real axis by generalized polynomials. *Acta Math. Sinica* 8 (1958), 190-199 *(Chines translated as Chinese Math. - Acta* 8 (1966), 788-796 (1967). (Editors) 36 #6844

On the Borel lines of entire functions defined by Laplace-Stieltjes transforms. *Acta Math. Sinica* 13 (1963), 471-484 *(Chinese); translated as Chinese Math.* 4 (1964), 511-525. (C. Tanaka) 28 #5179

Yu Ching-shun

(with Lo Tsu-tao) A modified Feodosev theory of the Bourdon tube. (Chinese. English summary) *Acta Mech. Sinica* 5 (1962), 8-17. (Y. K. Lin) 31 #4243

Yu Chong-ho

(with Kim Hai-yŏng) Conformal Killing tensor fields in Riemannian space with boundary. (Korean. English summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1967, *no.* 6, 1-5. (From the authors' summary) 38 #6500

Yucis, A. P. See Jucys, A.

Yudin, A. A. See Judin, A. A.

Yudovič, V. I. See Judovič, V. I.

udovich, V. I. See Judovič, V. I.

ue, P. C.

(with Aoki, Masanao) On a priori error estimates of some identification methods. *IEEE Trans. Automatic Control* AC-15 (1970), 541-548. (K. S. Miller) 43 #4536

(with Staley, R. M.) On system parameter identifiability. *Information Sci.* 2 (1970), 127-138. (B. P. Zeigler) 42 #7319

(with Aoki, M.) On certain convergence questions in system identification. *SIAM J. Control* 8 (1970), 239-256. (R. Tomović) 41 #9598

ue-chi-ming, R.

A note on torsionfree modules. *J. Algebra* 12 (1969), 172-176. (A. Zaks) 39 #1441

On module rigidity over local rings. *J. London Math. Soc.* 44 (1969), 299-302. (S. Williamson) 38 #4468

A note on singular ideals. *Tôhoku Math. J.* (2) 21 (1969), 337-342. (A. Zaks) 40 #5664

ueh Ching-chung

Imbedding theory and cohomology of permutation groups. II. *Acta Math. Sinica* 12 (1962), 341-351 *(Chinese); translated as Chinese Math.* 3 (1963), 372-381. (P. A. Smith) 29 #1639

Secondary imbedding classes. *Sci. Sinica* 12 (1963), 1072. (M. Mahowald) 30 #5329

Cohomology operations and duality in a manifold. *Sci. Sinica* 12 (1963), 1469-1487. (A. Haefliger) 31 #6227

Cohomology mod *p* of deleted cyclic product of a manifold. *Sci. Sinica* 12 (1963), 1779-1794. (A. Haefliger) 31 #6228

Homology operations. I. *Acta Math. Sinica* 14 (1964), 179-195 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 199-216. (D. B. A. Epstein) 30 #2504a

Homology operations. II. *Acta Math. Sinica* 14 (1964), 196-211 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 217-232. (D. B. A. Epstein) 30 #2504b

Cohomology of projective bundle of a manifold and its application to immersions. *Sci. Sinica* 13 (1964), 2011-2012. (D. B. A. Epstein) 31 #6245

Secondary imbedding classes. *Sci. Sinica* 14 (1965), 157-166. (A. H. Copeland, Jr.) 34 #5091

Secondary imbedding classes of manifolds. *Sci. Sinica* 14 (1965), 167-173. (A. H. Copeland, Jr.) 34 #5092

Singularities of type S_1r_0. *Sci. Sinica* 14 (1965), 816-830. (J. M. Boardman) 33 #4947

Cohomology of the projective bundle of a manifold and its application to immersions. *Sci. Sinica* 14 (1965), 959-963. (M. W. Hirsch) 32 #1723

Imbedding of manifolds in Euclidean spaces. (Chinese) *Shuxue Jinzhan* 8 (1965), 59-61. (Hung-hsi Wu) 36 #888

Generalization of Adem's formula in the Steenrod algebra. (Chinese) *Shuxue Jinzhan* 8 (1965), 62-70. (T.-S. Wu) 35 #4911

On spherical homology classes. *Sci. Sinica* 15 (1966), 133-138. (E. H. Brown) 33 #735

ue Jing-zhong. See Yueh Ching-chung.

uhnovskiĭ, I. R. See Juhnovskiĭ, I. R.

uĭ, Lin′ Čžou. See Chou Yu-lin.

u Jia-yong. See Yu Chia-yung.

ukawa, T.

(with Florides, P. S.; Synge, J. L.) Stationary gravitational fields due to symmetrical systems of bodies. *Proc. Roy. Soc. Ser. A* 284 (1965), 32-39. (J. M. A. Danby) 30 #4578

uki, Makoto

Phonetical entropy defined from power spectrum as probability density function. (Japanese summary) *RAAG Res. Notes* (3) *No.* 81 (1964), ii + 12 *pp.* (H. P. Edmundson) 30 #2965

ukimachi, Takeo

A note on the theorem concerning average conditional information. *Proc. Fac. Engrg. Keio Univ.* 20 (1967), 145-150. (F. Jelinek) 41 #5106

ukiyosi, Kawada. See Kawada, Yukiyosi.

üksel, Halil

(See Beckenbach, Edwin; Bellman, Richard, 37 #2925 and Ventcel′, E. S., 37 #5033)

üksel Özemre, Ahmet. See Özemre, Ahmet Yüksel.

ü Kuang-rei. See Yu K'un-ch'uai.

u K'un-ch'uai

(with Wang Yuan; Hsieh Sheng-kang) Two results on the distribution of prime numbers. (Chinese) *J. China Univ. Sci. Techn.* 1 (1965), *no.* 1, 32-38. (K. Mahler) 34 #7482

(with Wang Yuan; Hsieh Sheng-kang) Remarks on the difference of consecutive primes. *Sci. Sinica* 14 (1965), 786-788. (R. A. Rankin) 32 #5617

Yu K'un-jui. See Yu K'un-ch'uai.

Yun-dee Wei, Diana. See Wei, Diana Yun-dee.

Yung Chi-hsing. See Yong, Chi-hsing.

Yung, Erh-ch'ien

On the sewing theorem. *Acta Math. Sinica* 14 (1964), 58-61 *(Chinese); translated as Chinese Math.* 5 (1964), 63-66. (J. F. Heyda) 29 #1316

Yun Hong Un. See Yun Hong-wun.

Yun Hong-wun

(with Ryu Ch'ung-ho) On a function space in a Riemannian manifold. (Korean. Russian summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1966, *no.* 4, 1-4. (K. T. Hahn) 36 #5963

A generalized covariant derivative on a Riemannian space. (Korean. English summary) *Cho-sŏn In-min Kong-hwa-kuk Kwa-hak-wŏn T'ong-p'o* 1967, *no.* 1, 1-5. (From the author's summary) 36 #3281

Yu Ping-li

(with Ch′iu Yuan-ch′ing) On stability of the trivial solution of non-autonomous systems. *Acta Math. Sinica* 14 (1964), 769-780 *(Chinese); translated as Chinese Math. - Acta* 6 (1965), 168-179. (H. Hochstadt) 31 #6032

Yurimyaè, È. I. See Jürimäe, E.

Yurtsever, Berki

Über die Eulersche Reihentransformation. (Turkish summary) *Comm. Fac. Sci. Univ. Ankara Sér. A* 15 (1966), 1-10. (S. Izumi) 33 #7741

Yuščenko, A. A. See Juščenko, O. A.

Yushin, Yu. Ya. See Jušin, Ju. Ja.

Yu Shu-hsiang

On Filippov's method of proving existence and uniqueness of limit cycles. *Acta Math. Sinica* 14 (1964), 461-470 *(Chinese); translated as Chinese Math. - Acta* 5 (1964), 496-505. (R. Conti) 30 #1282

Existence theorems of limit cycles. (Chinese) *Shuxue Jinzhan* 8 (1965), 187-194. (R. Liu) 34 #4607

Yu Shu-xiang. See Yu Shu-hsiang.

Yuškevič, A. A. See Juškevič, A. A.

Yuškevič, A. P. See Juškevič, Adol′f Pavlovič.

Yusuf, S. M.

A Jordan-Hölder theorem for inverse semigroups with operators. *J. Natur. Sci. and Math.* 3 (1963), 129-137. (R. McFadden) 29 #1279

A structure theorem for inverse semigroups. *J. Natur. Sci. and Math.* 4 (1964), *no.* 1, 103-108. (J. Kist) 29 #4827

Admissible ideals of a semigroup with operators. *J. Natur. Sci. and Math.* 4 (1964), *no.* 1, 109-124. (J. Kist) 29 #4828

Ideals in additively inversive semirings. *J. Natur. Sci. and Math.* 5 (1965), *no.* 1, 45-56. (R. McFadden) 32 #4164

The classical radical of an additively inversive semiring. *J. Natur. Sci. and Math.* 5 (1965), *no.* 1, 57-69. (R. McFadden) 32 #4165

A structure theorem for an inverse semigroup which has a given inverse semigroup as its principal normal inverse subsemigroup. *J. Natur. Sci. and Math.* 5 (1965), *no.* 2, 231-236. (P. A. Grillet) 32 #7669

Inverse semimodules. *J. Natur. Sci. and Math.* 6 (1966), *no.* 1, 111-117. (R. J. Warne) 35 #1688

Complete direct sums, subdirect sums and *F*-radicals of additively inversive semirings. *J. Natur. Sci. and Math.* 8 (1968), 177-191. (D. R. LaTorre) 39 #268

Yutsis, A. P. See Jucys, A.

Yu Ts'en-sun. See Yu Ching-shun.

Yu Wen-ci. See Yu Wen-tz'u.

Yu Wen-tz'u

(with Li Ta-ch'ien) Some existence theorems for quasi-linear hyperbolic systems of partial differential equations in two independent variables. I. Typical boundary value problems. *Sci. Sinica* 13 (1964), 529-549. (C. H. Wilcox) 31 #504

(with Li Ta-ch'ien) Some existence theorems for quasi-linear hyperbolic systems of partial differential equations in two independent variables. II. Typical boundary value problems of functional form and typical free boundary problems. *Sci. Sinica* 13 (1964), 551-562. (C. H. Wilcox) 31 #505

(with Li Ta-ch'ien) Cauchy problem for a system of first order quasilinear hyperbolic equations. (Chinese) *Shuxue Jinzhan* 7 (1964), 152-171. (T.-P. Lin) 38 #417

Some existence theorems for quasi-linear hyperbolic systems of partial differential equations in two independent variables. III. General boundary value problems and general free boundary problems. *Sci. Sinica* 14 (1965), 1065-1067. (D. Ludwig) 32 #1436

Yu Yan-lin. See Yu Yen-lin.

Yu Yen-lin.

Relations between Pontryagin's method and Thom's method in singular-point theory. *Sci. Sinica* 14 (1965), 679-688. (R. H. Szczarba) 33 #3308

Imbedding of simply connected differentiable manifolds. *Sci. Sinica* 15 (1966), 454-461. (A. Haefliger) 34 #8423

Yuza, Miloslav. See Jůza, Miloslav.

Yu Zhang Qing. See Chang Ching-yu.

Zaanen, Adriaan Cornelis

(with Luxemburg, W. A. J.) Notes on Banach function spaces. IX. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 360-376. (H. Gordon) 30 #3381a

(with Luxemburg, W. A. J.) Notes on Banach function spaces. X, XI, XII, XIII. *Nederl. Akad. Wetensch. Proc. Ser. A* 67 = *Indag. Math.* 26 (1964), 493-506, 507-518, 519-529, 530-543. (H. Gordon) 30 #3381b

(with Luxemburg, W. A. J.) Some examples of normed Köthe spaces. *Math. Ann.* 162 (1965/66), 337-350. (K. Sundaresan) 33 #540

* Integration. Completely revised edition of *An introduction to the theory of integration. North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1967. xiii + 604 *pp.* (N. Dinculeanu) 36 #5286

Stability of order convergence and regularity in Riesz spaces. *Studia Math.* 31 (1968), 159-172. (H. H. Schaefer) 39 #1944

Zabara, S. S.

A certain method of analyzing the reliability of functional schemes of digital computers. (Ukrainian. Russian summary) *Computational Mathematics and Techniques (Ukrainian), pp.* 90-99. *Vidavn. Akad. Nauk Ukraïn. RSR, Kiev,* 1963. (Author's summary) 42 #4051

Zabawa, Mieczyław

On the possibilities of vibration damping in the case of random forcing. (Polish and Russian summaries) *Nonlinear Vibration Problems, Vol.* 8, *pp.* 119-125. *Państw. Wydawn. Nauk., Warsaw,* 1967. 37 #4347

Oscillations of systems with two degrees of freedom under a perturbation by a periodic force of random amplitude and frequency. (Polish. English and Russian summaries) *Nonlinear Vibration Problems, Vol.* 8, *pp.* 143-148. *Państw. Wydawn. Nauk., Warsaw,* 1967. 37 #4348

The determination of the optimal parameters for a dynamical damper under a kinematic perturbation with random amplitude and frequency. (Polish. English and Russian summaries) *Nonlinear Vibration Problems, Vol.* 8, *pp.* 149-156. *Państw. Wydawn. Nauk., Warsaw,* 1967. 37 #4349

Zabczyk, J.

Probabilités d'atteintes d'un ensemble dans les chaînes de Markov. (Loose English and Russian summaries) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 827-831. (A. Fuchs) 44 #2278

Sur la théorie semi-classique du potentiel pour les processus à accroissements indépendants. *Studia Math.* 35 (1970), 227-247. (J. A. Beekman) 42 #2545

Zabeeh, Joan Gordon

Spaces of cuts. *Proc. Cambridge Philos. Soc.* 68 (1970), 67-72. (Anne K. Steiner) 41 #4475

Ząbek, Świątomir

Sur le minimum absolu de certaines fonctionnelles. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 17 (1963), 75-79 (1965). (S. Roy Schubert) 33 #3091

Zabey, Ph. Ch.

(with Eckmann, J.-P.) Impossibility of quantum mechanics in a Hilbert space over a finite field. *Helv. Phys. Acta* 42 (1969), 420-424. (D. Babbitt) 39 #7904

Zablockih, N. D.

(with Ezova-Guseva, L. M.; Kasymova, S. S.) Dimensions of manifolds of planar generating Hermitian quadrics and null-planes of Hermitian null-systems in spaces over algebras. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz-Mat. Nauk* 1966, *no.* 3, 23-30. (W. Burau) 37 #2070

(with Ežova-Guseva, L. M.; Kasymova, S. S.) Dimensions of manifolds of tangential planes to Hermitian quadrics and planes which intersect with the corresponding planes in Hermitian null-systems in spaces over algebras. (Russian. Azerbaijani summary) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. Nauk* 1966, *no.* 5, 27-32. (V. Havel) 36 #2073

Zablockih, N. M.

Octave geometry with classical fundamental groups. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 253, 62-76 (1969). (H. Freudenthal) 44 #3197

Zabolockaja, A. F.

A method for speeding up the convergence of the iterative method of determination of the highest eigenvalue of a selfadjoint operator. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 658-660. (E. Schock) 38 #2939

Zaborowski, Mme. Henri Berthod. See Berthod-Zaborowski, Mme. Henri.

Zaborszky, John

(with Gorman, D.) Functional Lagrange expansion in state space and the s-domain. *IEEE Trans. Automatic Control* AC-11 (1966), 498-505. (M. N. Oğuztöreli) 34 #7232

(with Gorman, D.) Stochastic optimal control of continuous time systems with unknown gain. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 54-65. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2408

(with Gorman, David) Stochastic optimal control of continuous time systems with unknown gain. *IEEE Trans. Automatic Control* AC-13 (1968), 630-638. (Authors' summary) 42 #9026

(with Tarn, Tzyh Jong) A practical, nondiverging filter. *AIAA J.* 8 (1970), 1127-1133. (J. Capon) 41 #6616

Zabotin, Ja. I.

Certain aspects of the nonuniqueness of the solution for a linear programming problem. (Russian) *Kazan State Univ. Sci. Survey Conf.* 1962 *(Russian), pp.* 125-128. *Izdat. Kazan. Univ., Kazan,* 1963. 32 #5377

A certain sufficient condition for the existence and uniqueness of a solution of the basic functional equation of dynamic programming. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 6, 67-68 (1966). (Z. Daróczy) 38 #3032

Discrete mathematical programming. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 127 (1967), *kn.* 3, 74-81. (Ju. Finkel'šteĭn (RŽMat 1968 #8 V358)) 44 #2497

Zabreĭko, P. P.

* (with Krasnosel'skiĭ, M. A.; Perov, A. I. Povolockiĭ, A. I.) Векторные поля на плоскости. (Russian) [Vector fields in the plane] *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1963. 245 *pp.* (C. S. Coleman) 31 #719

Some properties of linear operators acting in the spaces $\mathscr{L}_p$. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 975-977. (A. Haimovici) 30 #472

Complete continuity of U_0 bounded linear operators in Z^p spaces. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 110-113. (N. Dinculeanu) 32 #6233

(with Pustyl'nik, E. I.) Interpolation of the property of complete continuity of a linear operator. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 114-118. (N. Dinculeanu) 32 #6207

(with Krasnosel'skii, M. A.) Calculation of the index of a fixed point of a vector field. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 509-531. (A. Haimovici) 29 #3893

On the continuity of a non-linear integral operator. (Russian) *Sibirsk. Mat. Ž.* 5 (1964), 958-960. (G. J. Minty) 30 #473

(with Krasnosel'skiĭ, M. A.; Pustyl'nik, E. I.) On a proof of Mercer's theorem. (Russian) *Bul. Akad. Štiince RSS Moldoven* 1965, *no.* 7, 98-100. (G. Biriuk) 33 #1767

The continuity and complete continuity of operators of P. S. Uryson. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1007-1010. (S. Rolewicz) 31 #2610

(with Krasnosel'skiĭ, M. A.; Pustyl'nik, E. I.) On fractional powers of elliptic operators. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 990-993. (P. C. Fife) 33 #406

(with Krasnosel'skiĭ, M. A.; Pustyl'nik, E. I.) A problem on fractional powers of operators. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 87-89. (Ky Fan) 33 #7867

* (with Krasnosel'skiĭ, M. A.; Perov, A. I.; Povolockiĭ, A. I.) Vektorfelder in der Ebene. Aus dem Russischen übersetzt von Anita Bittner. In deutscher Sprache herausgegeben Leonhard Bittner. Mathematische Lehrbücher, Band XIII. *Akademie-Verlag, Berlin,* 1966. x + 197 *pp.* (Editors) 34 #1995

* (with Krasnosel'skiĭ, M. A.; Pustyl'nik, E. I.; Sobolevskiĭ, P. E.) Интегральные операторы в пространствах суммируемых функций. (Russian) [Integral operators in spaces of summable functions] *Izdat. "Nauka", Moskow,* 1966. 499 *pp.* (H. H. Wicke) 34 #6568

* (with Krasnosel'skiĭ, M. A.; Perov, A. I.; Povolockiĭ, A. I.) Plane vector fields. Translated by Scripta Technica, Ltd. *Academic Press, New York-London,* 1966. viii + 242 *pp.* (Editors) 34 #6738

On differentiability of nonlinear operators in spaces $\mathscr{L}_p$. (Russian) *Dokl. Akad. Nauk SSSR* 166 (1966), 1039-1042. (G. W. Hedstrom) 33 #1772

(with Ledovskaja, I. B.) Higher order approximations of the averaging method of N. N. Bogoljubov-N. M. Krylov. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 262-265. (W. T. Kyner) 35 #456

(with Nurekenov, T.) Existence of non-negative ω-periodic solutions of systems of integro-differential equations. (Russian. Kazakh summary) *Vestnik Akad. Nauk Kazah. SSR* 22 (1966), *no.* 5 (253), 32-36. (J. Albrycht) 33 #6089

Uniqueness theorems for ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 341-347. (A. D. Ziebur) 34 #7851

(with Povolockiĭ, A. I.) Theorems on the existence and uniqueness of solutions of Hammerstein equations. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 759-762. (Şt. I. Gheorghiţă) 36 #4293

(with Krasnosel'skiĭ, M. A.) A way of obtaining new fixed point principles. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 1233-1235. (J. S. Shipman) 36 #3183

(with Kačurovskiĭ, R. I.; Krasnosel'skiĭ, M. A.) On a fixed point principle for operators in a Hilbert space. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 93-94. (I. N. Baker) 35 #3505

(with Rutickiĭ, Ja. B.) Several remarks on monotone functions. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 127 (1967), *kn.* 1, 114-126. (W. A. Woyczyński) 40 #7794

The spectral radius of Volterra integral operators. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 281-287. (H. Triebel) 37 #5738

(with Krasnosel'skiĭ, M. A.; Stecenko, V. Ja.) Estimates of the spectral radius of positive linear operators. (Russian) *Mat. Zametki* 1 (1967), 461-468. (T. Ando) 34 #8200

An interpolation theorem for linear operators. (Russian) *Mat. Zametki* 2 (1967), 593-598. (E. Strzelecki) 36 #6962

Volterra integral operators. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 1 (133), 167-168. (G. Biriuk) 34 #8241

(with Povolockiĭ, A. I.) The eigenvectors of Hammerstein's operator. (Russian) *Dokl. Akad. Nauk SSSR* 183 (1968), 758-761. (J. Kolomý) 39 #833

(with Krasnosel'skiĭ, M. A.) Simple solutions of operator equations. (Russian) *Problemy Mat. Anal. Slož. Sistem Vyp.* 2 (1968), 31-40. (Z. V. Kovarik) 43 #7986

* (with Krasnosel'skiĭ, M. A.; Vaĭnikko, G. M.; Rutickiĭ, Ja. B.; Stecenko, V. Ja.) Приближенное решение операторных уравнений. (Russian) [Approximate solution of operator equations] *Izdat. "Nauka", Moscow,* 1969. 455 *pp.* (V. Šeda) 41 #4271

(with Ledovskaja, I. B.) On the basis of the method of N. N. Bogoljubov and N. M. Krylov for ordinary differential equations. (Russian) *Differencial'nye Uravnenija* 5 (1969), 240-253. (M. Bertolino) 39 #4486

(with Kolesov, Ju. S.; Krasnosel'skiĭ, M. A.) Implicit functions and the averaging principle of N. N. Bogoljubov and N. M. Krylov. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 526-529. (D. Bobrowski) 38 #6176

(with Burd, V. Š.; Kolesov, Ju. S.; Krasnosel'skiĭ, M. A.) The averaging principle and bifurcation of almost periodic solutions. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 1219-1221. (M. Švec) 41 #7211

(with Zafievskiĭ, A. V.) A certain class of semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 934-937. (A. B. Buche) 41 #9053

A theorem for semiadditive functionals. (Russian) *Funkcional. Anal. i Priložen.* 3 (1969), *no.* 1, 86-88. (A. Alexiewicz) 39 #3283

(with Krasnosel'skiĭ, M. A.; Darinskiĭ, B. M.; Emelin, I. V.; Lifšic, E. A.; Pokrovskiĭ, A. V.) An operator-hysterant. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 34-37. (J. Daneš) 41 #2480

(with Krasnosel'skiĭ, M. A.; Lifšic, E. A.) An oscillator on an elasto-plastic element. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 266-268. (J. Daneš) 41 #2481

(with Povolockiĭ, A. I.) Bifurcation points of Hammerstein's equation. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 496-499. (O. E. Stanaitis) 42 #3517

(with Strigīna, S. O.) Cesari's equation and Galerkin's method for finding periodic solutions of ordinary differential equations. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1970, 583-586, 667. (D. Bobrowski) 43 #7718

(with Povolockiĭ, A. I.) On the theory of Hammerstein equations. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 150-162. (A. Pelczar) 41 #7398

(with Povolockiĭ, A. I.) Eigenfunctions of the Hammerstein operator. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1294-1304, 1342-1343. (Ulrich Kosel) 44 #4603

(with Krasnosel'skiĭ, M. A.) The solvability of nonlinear operator equations. (Russian) *Funkcional. Anal. i Priložen.* 5 (1971), *no.* 3, 42-44. (V. Zizler) 44 #876

(with Strygina, S. O.) The periodic solutions of evolution equations. (Russian) *Mat. Zametki* 9 (1971), 651-662. (I. Muntean) 44 #4295

(with Kac, B. P.) The Nekrasov-Nazarov method of solving nonlinear operator equations. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 1026-1040. (B. V. Loginov) 44 #5840

Zabrodsky, Alexander

Covering spaces of paracompact spaces. *Pacific J. Math.* 14 (1964), 1489-1503. (H. H. Corson) 30 #3442

Cohomology operations and homotopy commutative *H*-spaces. *The Steenrod Algebra and its Applications (Proc. Conf. to Celebrate N. E. Steenrod's Sixtieth Birthday, Battelle Memorial Inst., Columbus, Ohio,* 1970*), pp.* 308-317. *Lecture Notes in Mathematics, Vol.* 168. *Springer, Berlin,* 1970. (S. Gitler) 42 #6815

Implications in the cohomology of *H*-spaces. *Illinois J. Math.* 14 (1970), 363-375. (S. Gitler) 41 #6217

A note on cohomology with limited torsion. *Israel J. Math.* 8 (1970), 159-164. (S. Gitler) 41 #7680

Homotopy associativity and finite CW complexes. *Topology* 9 (1970), 121-128. (C. S. Hoo) 42 #1118

On spherical classes in the cohomology of *H*-spaces. *H-Spaces (Actes Réunion Neuchâtel,* 1970*), pp.* 25-33. *Lecture Notes in Mathematics, Vol.* 196. *Springer, Berlin,* 1971. (C. S. Hoo) 44 #1029

Zabusky, Norman J.

Solutions for a nonlinear singular magnetic flux diffusion equation. *Phys. Fluids* 5 (1962), 487-491. (PA 65 #9583) 32 #3427

(with Kruskal, Martin D.) Exact invariants for a class of nonlinear wave equations. *J. Mathematical Phys.* 7 (1966), 1256-1267. (C. H. Wilcox) 34 #3112

(See also Topics in nonlinear physics, 39 #1251)

(with Kruskal, Martin D.; Miura, Robert, M.; Gardner, Clifford S.) Korteweg-deVries equation and generalizations. V. Uniqueness and nonexistence of polynomial conservation laws. *J. Mathematical Phys.* 11 (1970), 952-960. (Authors' summary) 42 #6410

Zaccaria, F.

(with Simoni, A.) On the realization of semi-simple Lie algebras with quantum canonical variables. (Italian and Russian summaries) *Nuovo Cimento A* (10) 59 (1969), 280-292. (S. N. Biswas) 41 #6492

(with Simoni, A.) A unicity theorem on the realizations of semi-simple Lie algebras with quantum canonical variables. (Italian summary) *Nuovo Cimento A* (10) 67 (1970), 336-344. (Jean Nuyts) 41 #9512

Začepa, G. G.

On the theory of surfaces of Laguerre space. (Russian) *Elabuž. Gos. Ped. Inst. Učen. Zap.* 3 (1958), 3-16. (A. P. Norden (RŽMat 1960 #843)) 41 #2555

Zacharias, Klaus

Ein spezielles Goursat-Problem in der Ebene. *Monatsb. Deutsch Akad. Wiss. Berlin* 11 (1969), 685-695. (D. B. Kotlow) 41 #2220

(with Gajewski, Herbert) Zur starken Konvergenz des Galerkinverfahrens bei einer Klasse pseudoparabolischer partieller Differentialgleichungen. *Math. Nachr.* 47 (1970), 365-376. (H. Beckert) 44 #4351

Zachariasen, Fredrik

Bootstraps. *Strong Interactions and High Energy Physics (Scottish Universities' Summer School,* 1963*), pp.* 371-409. *Plenum Press, New York,* 1964. (P. Roman) 30 #5730

(with Abers, Ernest) Dynamical calculations and Regge trajectories in the presence of spin. *Phys. Rev.* (2) 136 (1964), B749-B762. (T. Regge) 31 #4361

(with Zweig, G.) U(12) and time reversal violation in the weak interactions. *Coral Gables Conferences on Symmetry Principles at High Energy,* 1965, *pp.* 362-370. *Freeman, San Francisco,* 1965. (P. Roman) 31 #5557

(with Zemach, C.) Parity conservation and bootstraps. *Phys. Rev.* (2) 138 (1965), B441-B445. (E. Abers) 33 #1066

(with Kaus, P. E.) Regge trajectories versus vanishing renormalization constants as dynamical criteria. *Phys. Rev.* (2) 138 (1965), B1304-B1307. (T. Regge) 32 #3536

(with Zweig, G.) U(12) and time-reversal asymmetry in the weak interactions. *Phys. Rev. Lett.* 14 (1965), 794-798. (S. L. Glashow) 31 #3110

Zachariou, A.

A subalgebra of $\mathrm{Ext}_A{}^{**}(Z_2, Z_2)$. *Bull. Amer. Math. Soc.* 73 (1967), 647-648. (A. Liulevicius) 35 #4912

Zachary, D. H.

Further consideration of an optimal control problem. *Internat J. Control* (1) 4 (1966), 281-296. (E. O. Roxin) 34 #5550

Solution to a class of convex programming problems via quasilinearization. *J. Math. Anal. Appl.* 30 (1970), 490-494. (E. M. L. Beale) 41 #6573

Zachary, W. W.

Sufficient conditions for stability of the Faddeev equations. *J. Mathematical Phys.* 10 (1969), 1098-1104. (H. Ezawa) 40 #2300

(with Byrnes, J. S.; Podgor, S.) On the evaluation of certain lattice Green's functions. *Proc. Cambridge Philos. Soc.* 66 (1969), 377-380. (J. G. Herriot) 40 #8226

Zacher, Giovanni

I gruppi risolubili finiti in cui i sottogruppi di composizion coincidono con i sottogruppi quasi-normali. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 150-154. (G. E. Wall) 30 #4833

(with Emaldi, Maurizio) I gruppi risolubili relativamente complementati. *Ricerche Mat.* 14 (1965), 3-8. (G. E. Wall) 32 #4194

Sui gruppi localmente finiti con duale. *Rend. Sem. Mat. Univ. Padova* 36 (1966), 223-242. (G. E. Wall) 34 #2706

Determination of locally finite groups with duals. *J. Algebra* 18 (1971), 426-431. (A. R. Camina) 44 #319

Zachmanoglou, E. C.

The decay of solutions of the initial-boundary value problem for the wave equation in unbounded regions. *Arch. Rational Mech. Anal.* 14 (1963), 312-325. (C. S. Morawetz) 29 #1430

An example of slow decay of the solution of the initial-boundary value problem for the wave equation in unbounded regions. *Bull. Amer. Math. Soc.* 70 (1964), 633-636. (C. S. Morawetz) 29 #6168

An example of slow decay of the solution of the initial-boundary value problem for the wave equation in unbounded regions. *J. Math. Anal. Appl.* 11 (1965), 199-204. (C. S. Morawetz) 32 #6039

Uniqueness of the Cauchy problem when the initial surface contains characteristic points. *Arch. Rational Mech. Anal.* 23 (1966), 317-326. (D. E. Edmunds) 36 #516

The decay of solutions of the initial-boundary value problem for hyperbolic equations. *J. Math. Anal. Appl.* 13 (1966), 504-515. (C. H. Wilcox) 32 #6055

Non-uniqueness of the Cauchy problem for linear partial differential equations with variable coefficients. *Arch. Rational Mech. Anal.* 27 (1967), 373-384. (C. H. Wilcox) 36 #6784

(with Dunninger, D. R.) The condition for uniqueness of solutions of the Dirichlet problem for the wave equation in coordinate rectangles. *J. Math. Anal. Appl.* 20 (1967), 17-21. (Gianni A. Pozzi) 37 #1807

(with Dunninger, D. R.) The condition for uniqueness of the Dirichlet problem for hyperbolic equations in cylindrical domains. *J. Math. Mech.* 18 (1969), 763-766. (E. C. Young) 38 #4817

Uniqueness of the Cauchy problem for linear partial differential equations with variable coefficients. *Trans. Amer. Math. Soc.* 136 (1969), 517-526. (R. N. Pederson) 39 #620

An application of Holmgren's theorem and convexity with respect to differential operators with flat characteristic cones. *Trans. Amer. Math. Soc.* 140 (1969), 109-115. (R. D. Moyer) 39 #1790

Propagation of zeroes and uniqueness in the Cauchy problem for first order partial differential equations. *Arch. Rational Mech. Anal.* 38 (1970), 178-188. (W. Watzlawek) 41 #5769

Lie algebras of analytic vector fields and uniqueness in the Cauchy problem for first order partial differential equations. *Bull. Amer. Math. Soc.* 76 (1970), 814-818. (W. Watzlawek) 41 #3989

achrisson, Lars Erik

Markov games. *Advances in game theory, Ann. of Math. Studies, No. 52, pp.* 211-253. *Princeton Univ. Press, Princeton, N.J.*, 1964. (A. K. Gayen) 30 #967

On optimal smoothing of continuous time Kalman processes. *Information Sci.* 1 (1968/69), 143-172. (Author's summary) 39 #5235

ac'ko, V. N.

The boundaries of convexity of the classes $S_\alpha *(m)$ and $\Sigma_\alpha *(m)$. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 386-392. (A. W. Goodman) 39 #4375

čková, Jaroslava

The problem of squaring the cirlce and Lambert's proof of the irrationality of the number π. (Czech) *Pokroky Mat. Fyz. Astronom.* 11 (1966), 240-250. (D. J. Struik) 34 #8

ačková, Jitka

On minimax solutions of stochastic linear programming problems. (Russian and Czech summaries) *Časopis Pěst. Mat.* 91 (1966), 423-430. (R. Theodorescu) 35 #7693

Stochastic linear programming. (Czech. English summary) *Ekonom.-Mat. Obzor* 3 (1967), 273-297. (Editors) 36 #2389

On maximizing a concave function subject to linear constraints by Newton's method. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 339-355. (C. M. I. Rattray) 41 #1388

A note on deterministic equivalents to stochastic linear programming problems. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 264-268. (Author's summary) 42 #2800

ackrisson, Uno

* (with Carlström, E.) On quality and costs in life testing. Statistiska Institutionen, Göteborgs Universitet, Skr. 14. *Distributed by Almqvist & Wiksell, Stockholm-Göteborg-Uppsala*, 1965. 57 *pp.* (Benjamin Epstein) 31 #5303

acks, Shelley

(with Chernoff, H.) Estimating the current means of a normal distribution which is subjected to changes in time. *Ann. Math. Statist.* 35 (1964), 999-1018. (B. Hill) 31 #4111

(with Kander, Z.) Test procedures for possible changes in parameters of statistical distributions occurring at unknown time points. *Ann. Math. Statist.* 37 (1966), 1196-1210. (H. Chernoff) 34 #2115

Randomized fractional weighing designs. *Ann. Math. Statist.* 37 (1966), 1382-1395. (M. Atiqullah) 33 #6786

Sequential estimation of the mean of a log-normal distribution having a prescribed proportional closeness. *Ann. Math. Statist.* 37 (1966), 1688-1696. (H. Chernoff) 34 #3738

Unbiased estimation of the common mean of two normal distributions based on small samples of equal size. *J. Amer. Statist. Assoc.* 61 (1966), 467-476. (Author's summary) 34 #6916

(with Even, M.) The efficiencies in small samples of the maximum likelihood and best unbiased estimators of reliability functions. *J. Amer. Statist. Assoc.* 61 (1966), 1033-1051. (L. A. Aroian) 34 #6963

(with Even, M.) Minimum variance unbiased and maximum likelihood estimators of reliability functions for systems in series and in parallel. *J. Amer. Statist. Assoc.* 61 (1966), 1052-1062. (L. A. Aroian) 34 #6964

(with Neuts, M. F.) On mixtures of χ^2- and F-distributions which yield distributions of the same family. *Ann. Inst. Statist. Math.* 19 (1967), 527-536. (H. Teicher) 36 #6035

On the non-existence of a fixed sample estimator of the mean of a log-normal distribution having a prescribed proportional closeness. *Ann. Math. Statist.* 38 (1967), 949. 35 #1128

(with Ehrenfeld, S.) Testing hypotheses in randomized factorial experiments. *Ann. Math. Statist.* 38 (1967), 1494-1507. (C. G. Khatri) 36 #1050

Bayes sequential design of fractional factorial experiments for the estimation of a subgroup of pre-assigned parameters. *Ann. Math. Statist.* 39 (1968), 973-982. (H. Chernoff) 37 #4923

Bayes sequential designs of fixed size samples from finite populations. *J. Amer. Statist. Assoc.* 64 (1969), 1342-1349. (M. T. Chao) 40 #5068

(with Klotz, J. H.; Milton, R. C.) Mean square efficiency of estimators of variance components. *J. Amer. Statist. Assoc.* 64 (1969), 1383-1402. 40 #5063

Bayes sequential design of stock levels. *Naval Res. Logist. Quart.* 16 (1969), 143-155. (Author's summary) 39 #6615

Bayes equivariant estimators of variance components. *Ann. Inst. Statist. Math.* 22 (1970), 27-40. (Lionel Weiss) 42 #3916

Bayes and fiducial equivariant estimators of the common mean of two normal distributions. *Ann. Math. Statist.* 41 (1970), 59-69. (P. Fortunati) 42 #2593

Uniformly most accurate upper tolerance limits for monotone likelihood ratio families of discrete distributions. *J. Amer. Statist. Assoc.* 65 (1970), 307-316. 43 #4206

Žadanov, O. K.

(with Kirillov, V. V.; Kon′kov, Y. V.) A method of solving a management problem (programming and control) by elaborations. (Russian) *Ž. Vyčisl. Mat. i Mat, Fiz.* 5 (1965), 150-155. (N. H. Choksy) 31 #2073

Zadde, G. O.

The use of the technique of multivariate statistical analysis for the description of fluctuating scattering elements. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 12, 102-107. (S. Kullback) 41 #9355

Zade, Dž. G. Jusif. See Jusif-zade, Dž. G.

Zade, È. Mehti. See Mehti-Zade, È. M.

Zade, M. I. Guseĭn. See Huseĭn-Zade, M. I.

Zade, M. I. Huseĭn. See Huseĭn-Zade, M. I.

Zade, M. Ju. Ahund. See Ahund-Zade, M. Ju.

Zade M. Ju. Ahund. See Ahund-Zade, M. Ju.

Zade, Z. A. Iskender. See Iskender-Zade, Z. A.

Zadeh, Lotfi A.

(See Report on progress in information theory in the U.S.A., 1960-1963, 32 #2255)

The concept of state in system theory. *Views on General Systems Theory (Proc. Second Systems Sympos., Cleveland, Ohio,* 1963), *pp.* 39-50. *John Wiley & Sons, Inc., New York,* 1964. (P. L. Falb) 35 #6469

Fuzzy sets and systems. *Proc. Sympos. on System Theory (New York,* 1965), *pp.* 29-37. *Polytechnic Press, Polytechnic Inst. Brooklyn, Brooklyn, N.Y.*, 1965. (Author's summary) 41 #1428

Fuzzy sets. *Information and Control* 8 (1965), 338-353. (Author's summary) 36 #2509

(with Bellman, R.; Kalaba, R.) Abstraction and pattern classification. *J. Math. Anal. Appl.* 13 (1966), 1-7. (From the authors' introduction) 32 #2265

Shadows of fuzzy sets. (Russian) *Problemy Peredači Informacii* 2 (1966), *vyp.* 1, 37-44. (S. Mrówka) 35 #4817

Fuzzy algorithms. *Information and Control* 12 (1968), 94-102. (Editors) 38 #6905

(with Lee, E. T.) Note on fuzzy languages. *Information Sci.* 1 (1968/69), 421-434. (H. Maurer) 40 #5358

Probability measures of fuzzy events. *J. Math. Anal. Appl.* 23 (1968), 421-427. (F. J. Beutler) 37 #6131

(See also Computing methods in optimization problems, 41 #4783)

Quantitative fuzzy semantics. *Information Sci.* 3 (1971), 159-176. (Paul E. Cohen) 44 #3816

Zadeh, Norman

A note on the cyclic coordinate ascent method. *Management Sci.* 16 (1969/70), 642-644. (J. S. Kowalik) 42 #5647

Zadeh Hassan Akbar. See Akbar-Zadeh, Hassan.

Zadiraka, Konstantin V.

Investigation of a singularly perturbed nonautonomous system near a set of periodic solutions of a degenerate system. (Russian. English and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 230-239. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (W. A. Coppel) 32 #6007

On periodic solutions of an irregularly perturbed equation which is weakly non-linear. (Russian. English summary) *Ukrain. Mat. Ž.* 16 (1964), 292-299. (J. K. Hale) 29 #2487

On the existence and uniqueness of an integral manifold of a singularly perturbed system of non-linear differential equations. (Ukrainian. Russian summary) *Vĭsnik Kiĭv. Univ.* 1964, *no.* 6, 46-61. (M. Ráb) 32 #7817

Investigation of irregularly perturbed nonlinear differential systems by the method of integral manifolds. (Russian. German and English summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 100-105. (J. M. Skowroński) 33 #6060

On a non-local integral manifold of a singularly perturbed differential system. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 47-63. (D. Bushaw) 34 #4633

(with Los', G. P.) On the question of stability and instability of solutions of linear differential equations of the *n*th order with periodic coefficients. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 6, 117-122. (Herbert I. Freedman) 34 #6198

Investigation of irregularly perturbed differential equations. (Russian) *Problems in the Theory and History of Differential Equations (Russian), pp.* 81-108. *"Naukova Dumka", Kiev,* 1968. (G. Maess) 37 #4357

(with Los', G. P.) Construction of solutions of second order linear differential equations with periodic coefficients for an arbitrary interval of change in the argument. (Russian) *Mathematical Physics, No.* 6 (1969) *(Russian), pp.* 83-93. *Naukova Dumka, Kiev,* 1969. (V. V. Amel'kin) 41 #8767

Zadiraka, V. K.

(with Īvanov, V. V.) Some new results in approximation theory. (Russian. English summary) *Vyčisl. Mat. (Kiev) Vyp.* 2 (1966), 3-30. (B. S. Mitjagin) 38 #3658

(with Īvanov, V. V.) Approximation of dynamic characteristics in the class of generalized functions. *Dokl. Akad. Nauk SSSR* 183 (1968), 1024-1027 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 1204-1207. (D. D. Sworder) 41 #5076

(with Īvanov, V. V.) Approximation of dynamic characteristics in a class of generalized functions. (Russian) *Ukrain. Mat. Ž.* 21 (1969), 734-745. (B. S. Mitjagin) 41 #6593

Zadojan, M. A.

On a particular solution of the equations of the theory of ideal plasticity. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 39 (1964), 265-269. (H. G. Hopkins) 30 #3635

On a particular solution of the equations of the theory of ideal plasticity. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 38-39. (A. Sawczuk) 29 #816

Two problems in the theory of ideal plasticity. (Russian. Armenian summary) *Izv. Akad. Nauk Armjan. SSR Ser. Fiz.-Mat. Nauk* 17 (1964), *no.* 6, 73-81. (A. Sawczuk) 30 #2772

Zadora, Krzysztof

(with Stolarska, Elżbieta) The problem of periodic oscillations in a dynamical econometric model with one period retardations. (Polish. Russian and English summaries) *Przegląd Statyst.* 16 (1969), 101-107. 40 #989

Zadorožniĭ, V. G.

(with Perov, A. I.) Multidimensional linear differential equations with periodic coefficients. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 5 (96), 64-73. (J. Albrycht) 44 #4291

(with Perov, A. I.) On the theory of multidimensional linear differential equations with periodic coefficients. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 182-188. (A. D. Ziebur) 41 #5713

Zadyhaĭlo, I. B.

Organization of a cyclic computational process by a parametric entry of special type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 3 (1963), 337-357. (A. H. Stroud) 30 #5481

Zaezdnyĭ, A. M.

(with Gorinšteĭn, A. M.) Utilization of the methods of general summation of series for the construction of communication channels. (Russian) *Studies of Modern Problems of Constructive Theory of Functions, pp.* 353-358. *Fizmatgiz, Moscow,* 1961. 32 #2257

(with Men'šikov, G. G.) Recurrence formulae simplifying the construction of approximating power polynomials. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 360-363. 33 #4540

Zafarullah, A.

Finite difference scheme for a third boundary value problem. *J. Assoc. Comput. Mach.* 16 (1969), 585-591. (R. B. Simpson) 40 #5144

Application of the method of lines to parabolic partial differential equations with error estimates. *J. Assoc. Comput. Mach.* 17 (1970), 294-302. (A. Ženíšek) 43 #5746

A method of numerical solution of functional equations. *J. Optimization Theory Appl.* 5 (1970), 283-288. (J. Milota) 42 #2702

Spline functions as approximate solutions of boundary-value problems. *J. Optimization Theory Appl.* 7 (1971), 178-188. (P. G. Ciarlet) 43 #7082

Zafievskiĭ, A. V.

(with Zabreĭko, P. P.) A certain class of semigroups. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 934-937. (A. B. Buche) 41 #9053

Semigroups that have singularities summable with a power weight at zero. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 24- (A. B. Buche) 43 #3852

Zagaĭnov, L. S.

(with Rešotka, H. S.) Dependence of the approximate value the derivative on the choice of the spacing in numerical differen tiation. (Russian) *Certain Problems of Applied Mathematics, No. (Russian), pp.* 238-253. *Izdat. "Naukova Dumka", Kiev,* 1967. 39 #3703

Zăgănescu, Mircea

The mass spectrum of the propagation equations with partial derivatives of infinite order. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Ped. Timişoara Mat.-Fiz.* 1961, 20 208 (1962). (Author's summary) 32 #283

(with Sălceanu, C.) On the definition of the absorption factor of a non-periodic sonic impulse. (Romanian. Russian and French summaries) *Lucrăr. Şti. Inst. Ped. Timişoara Mat.-Fiz.* 1961, 197-200 (1962). (Authors' summary) 30 #5646

The areolar derivative of Pompeiu in the theory of spectral representations. (Romanian. Russian and French summaries) *Lucr Şti. Inst. Ped. Timişoara Mat.-Fiz.* 1961, 201-204 (1962). (M. Balk (RŽMat 1964 #12 B153)) 35 #6421

(with Drecin, Gh.) The equations of relativistic magnetohydrodynamics. (Romanian. Russian and French summaries) *An. Uni Timişoara Ser. Şti. Mat.-Fiz. No.* 1 (1963), 345-347. (R. Balesc 30 #5787

Dispersion relations and areolar derivatives. Possible generalizations. (Romanian. English and German summaries) *An. Univ. Timişoara Ser. Şti. Mat.-Fiz. No.* 2 (1964), 269-275. (Aut summary) 32 #221

Équation de mouvement intégro-différentielle pour un électr en interaction avec le champ gravifique. *C. R. Acad. Sci. Paris* 260 (1965), 3303-3305. (A. H. Klotz) 31 #3206

Équation intégrale pour la fonction de Jost généralisée (trois voies). *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), B1275-B1278. (G. Barton) 34 #5413

(with Gabriel, R.) Interaction as an affine connection. (Romanian summary) *An. Univ. Timişoara Ser. Sti. Fiz.-Chim.* 7 (1969), 135-142. (S. Deser) 42 #1453

Zagora, Jaroslav. See Záhora, Jaroslav.

Zagorin, L. E.

The determinant of matrices over a sfield. (Russian) *Proc. First Republican Conf. Math. Byelorussia (Russian), pp.* 151-152. *Izdat. "Vysšaja Škola", Minsk,* 1965. (D. Ž. Djoković) 37 #1390

On the normal Jordan form of a matrix over a noncommutative field. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1965, *no.* 2, 21-24. (H. Schwerdtfeger) 32 #5674

On solvable groups of matrices over the field of real quaternions. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 2, 12-22. (O. H. Kegel) 33 #4153

Irreducible nilpotent groups of matrices over the field of real quaternions. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat Navuk* 1966, *no.* 3, 77-81. (O. H. Kegel) 34 #2714

Reducible locally nilpotent matrix groups over the sfield of real quaternions. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat Navuk* 1969, *no.* 2, 115-117. (B. Vinograde) 41 #3626

Zagorskiĭ, T. Ja.

The reduction of certain mixed problems for parabolic system to integral equations. (Russian) *L'vov. Politehn. Inst. Naučn. Zap. Ser. Fiz.-Mat. Vyp.* 38 (1956), 13-28 (1957). (Editors) 41 #652

On the theory of the mixed problem for parabolic systems. (Russian) *Teoret. Prikl. Mat. Vyp.* 1 (1958), 82-98. (Oldřich Horáček) 34 #1715

A mixed problem for general parabolic systems in a half-space. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 37-40. (J. Friberg) 29 #5001

Mixed problem for general parabolic systems with constant coefficients in a half-space. (Russian) *Vestnik L'vov. Politehn. Inst. No.* 8 (1965), 3-30. (O. Horáček) 34 #505

(with Daniljuk, Ī. Ī.; Markovs'kiĭ, A. Ī.) Jaroslav Borisov Lopatinskiĭ. (Russian) *Ukrain. Mat. Ž.* 19 (1967), *no.* 2, 95-99. (Editors) 34 #4093

Zagoruĭko, N. G.

The exchange of verbal information between a person and computing systems. (Russian) *Vyčisl. Sistemy No.* 10 (1964), 3-12 29 #3019

Procedures for estimating the informational effectiveness of independent parameters of a speech signal. (Russian) *Vyčisl. Sistemy No.* 10 (1964), 13-19. 29 #3020

Computational errors of the energy and enveloping speech signal on an electronic computer. (Russian) *Vyčisl. Sistemy No.* 10 (1964), 41-45. 29 #3021

Zagrebin, D.

* Семизначные таблицы натуральных значений тригонометрических функций для каждой сотой града. (Russian) [Seven place tables of natural values of trigonometric functions for each hundredth of a degree. Academy of Sciences of the USSR. Main Astronomical Observatory. *Izdat. "Nauka", Moscow,* 1966. 147 *pp. (errata inser* (John Todd) 33 #6811

agrodziński, Jerzy

On a certain definition of the Hamilton operator (∇). (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 3 (1964), 7-17. (E. J. Scott) 32 #8068

aguskin, V. L.

(with Kondrašov, V. E.) The numerical solution of the equations of heat conduction and gas dynamics by partitioning into subregions. *Dokl. Akad. Nauk SSSR* 163 (1965), 1107-1109 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 727-729. (K. Rektorys) 32 #8525

aharenkova, N. I.

(with Gaĭduk, S. I.) Application of the contour integral method to the solution of a certain problem of transverse oscilla- of a relaxing rod. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 5, 78-86. (J. P. Guiraud) 43 #4327

aharia, Stoian

On Čebyšev-Kolmogorov inequalities. (Romanian. Russian and English summaries) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 1, 123-126. (S. Kullback) 43 #6965

ahar-Itkin, M. H.

On the growth of eigenvalues of a linear integral equation. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1022-1025. (L. B. Rall) 29 #6267

Investigation of a differential equation of Sturm-Liouville type. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1264-1267. (M. Ráb) 31 #424

On the singularities of analytic functions defined by a contour integral. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 5 (119), 119-122. (S. Gel′fer (RŽMat 1965 #6 B156)) 34 #2890

Investigations of the boundary value problems for the equation $y^{iv}(x) + [\lambda-q(x)]y(x) = 0$. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 3, 20-32. (Author's summary) 33 #5999

Growth of eigenvalues of a linear integral equation. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 4, 3-19. (E. Riekstiņš) 34 #6461

A multiwave transmission line with random inhomogeneities, and Brownian motion in Siegel's circle. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 291-303. (Author's summary) 42 #4089

aharjan, N. P. Ter. See Ter-Zaharjan, N. P.

aharjan, V. S.

Cluster values of a class of functions meromorphic in the circle. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 35 (1962), 3-11. (A. J. Lohwater) 32 #5887

Some boundary properties of functions analytic in a circle. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 38 (1964), 199-206. (A. J. Lohwater) 32 #5888

(with Nazarjan, È. O.) Total radial variation of a class of harmonic functions. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 41 (1965), 65-72. (T. Kubo) 33 #300

(with Džrbašjan, M. M.) Boundary properties of meromorphic functions of the N_α-class. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 1247-1250. (W. H. J. Fuchs) 35 #6835

Segmental variation of a class of analytic functions. (Russian. English and Armenian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 2, 117-122. (T. J. Reed) 36 #1662

(with Džrbašjan, M. M.) Boundary properties of meromorphic functions of class N_α. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 5, 275-294. (P. Caraman) 36 #3991

Radial limits and radial variations of the product $B_\alpha(z;z_k)$. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 1, 38-51. (G. Piranian) 37 #4267

The radial limit values of the function B_α. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 4-5, 287-300. (W. H. J. Fuchs) 43 #526

(with Džrbašjan, M. M.) The factorization of the function B_α. (Russian) *Mat. Zametki* 4 (1968), 3-10. (J. G. Krzyż) 38 #4660

The radial variation and the distribution of values of a certain class of analytic functions bounded in the unit disc. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 4 (1969), *no.* 5, 305-318. (C. Tanaka) 42 #2003

harjuta, V. P.

A product of bases in arbitrary domains. (Russian) *Dokl. Akad. Nauk SSSR* 151 (1963), 273-276. (L. de Branges) 31 #601

(with Judovič, V. I.) The general form of a linear functional in H_p'. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 2 (116), 139-142. (A. Shields) 32 #2891

On the question of the general form of a linear continuous functional in spaces of analytic functions. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 166, 171-174 (1966). (J. Rausen) 35 #7116

Continuable bases in spaces of analytic functions of one and several variables. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 277-292. (E. Strzelecki) 35 #5915

Bases and isomorphism of spaces of functions analytic in convex domains of several variables. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 5 (1967), 5-12. (V. P. Havin) 38 #1514

The quasi-equivalence of bases in finite centers of Hilbert scales. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 786-788. (C. Bessaga) 38 #2582

The quasi-equivalence of bases at an infinite center of a Hilbert scale. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 26-28. (A. Pełczyński) 44 #4482

The isomorphy of Cartesian products of linear topological spaces. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 2, 87-89. (J. E. Cigler) 42 #8240

Extendable bases in spaces of functions that are analytic in multicircular domains. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 793-809, 956. (V. P. Havin) 43 #2486

Zaharov, A. A.

The asymptotic behavior of a certain integral of trigonometric polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 527-529. (R. P. Boas, Jr.) 37 #5605

Asymptotic behavior of Lebesgue functions of linear averages of interpolation polynomials. (Russian) *Mat. Sb. (N.S.)* 75(117) (1968), 335-348. (G. G. Lorentz) 37 #4492

An estimate of the deviation of continuous periodic functions from de la Vallée Poussin sums. (Russian) *Mat. Zametki* 3 (1968), 77-84. (R. G. Langebartel) 37 #678

The norms of trigonometric polynomials. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 67-76. (A. Peyerimhoff) 37 #1872

The behavior of linear means of a differentiated Fourier series at the jump points of the function. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 134-146. (K. Karták) 43 #7860

Žaharov, D. A.

The ring of p-adic integers is elementary in the field of p-adic numbers. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.*, 31-33. (B. Gordon) 33 #7260

Zaharov, E. V.

(with Dmitriev, V. I.) The solution of a certain class of integral equations on the ray. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 317-328. *Izdat. Moskov. Univ., Moscow,* 1965. (G. Rieder) 33 #4637

(with Dmitriev, V. I.) Diffraction of a plane electromagnetic field by a perfectly conducting half-plane embedded in homogeneous half-space. (Russian) *Comput. Methods Programming, V (Russian), pp.* 187-196. *Izdat. Moskov. Univ., Moscow,* 1966. (J. E. Rosenthal) 35 #7647

(with Dmitriev, V. I.) Electromagnetic-wave diffraction by an ideally conducting half-plane in a layered medium. *Izv. Akad. Nauk SSSR Ser. Fiz. Zemli* 1966, 83-99 *(Russian); translated as Izv. Acad. Sic. USSR Phys. Solid Earth* 1966, 713-721. (C. Yeh) 42 #8779

(with Dmitriev, V. I.) The numerical solution of certain Fredholm integral equations of first kind. (Russian) *Computing Methods and Programming, X (Russian), pp.* 49-54. *Izdat. Moskov. Univ., Moscow,* 1968. (S. Maloň) 41 #6423

Zaharov, G. K.

(with Plotnikov, V. I.) Linear time-optimal problems with two groups of control parameters. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1196-1207. (C. Kallina) 40 #1176

(with Plotnikov, V. I.) Optimal processes with two groups of control parameters. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 55-66. (R. Tomović) 42 #1561

Zaharov, I. F.

Approximation of functions of the space $C^{(n)}_{[a,b]}$ by polygonal functions. (Russian) *Collection of Candidates' Works Math., Mech., Phys. (edited by B. M. Gagaev) (Russian), pp.* 44-60. *Izdat. Kazan. Univ., Kazan,* 1964. (Ju. A. Šaškin) 38 #4870

Approximation of functions by polygonal functions. I. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 135-143. (T. N. E. Greville) 32 #6125

The approximation of functions of class $C^{(n)}_{[a;b]}$ by broken functions of the same class. (Russian) *Candidates' Science Survey Conference for* 1965: *Math. Mech. (Russian), pp.* 15-17. *Izdat. Kazan. Univ., Kazan,* 1967. (C. de Boor) 38 #1446

(with Plotnikov, V. I.) Necessary time optimality conditions in the case of two control parameters of different functional natures. (Russian) *Mat. Zametki* 7 (1970), 273-280. (P. C. Das) 43 #4526

Zaharov, V. D.

On an invariant description of gravitational waves. (Russian) *Moskov. Gos. Univ. Soobšč. Gos. Astronom. Inst. Šternberg. No.* 131 (1964), 42-58. (F. A. E. Pirani) 30 #3741

A physical characteristic of Einsteinian spaces of the second degenerate type in the Petrov classification. *Dokl. Akad. Nauk SSSR* 161 (1965), 563-565 *(Russian); translated as Soviet Physics Dokl.* 10 (1965), 242-243. (H. Rund) 31 #6652

Certain types of gravitational fields with gravity waves. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1965, *no.* 2, 59-64. (W. M. Tulczyjew) 33 #3748

Zaharov, V. I.
Spin of virtual gravitons. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 303-309 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 199-203. (J. N. Islam) 33 #3751
(with Kobzarev, I. Ju.) Spin precession in a gravitational field. *Ann. Physics* 37 (1966), 1-6. (H. A. Buchdahl) 33 #7087

Zaharov, V. K.
(with Sarmanov, O. V.) Consilidation of states in a Markov chain and stationary variation of the spectrum. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 762-764. (K. Krickeberg) 30 #5367
(with Smirnov, N. V.; Sarmanov, O. V.) A local limit theorem for the number of transitions in a Markov chain and its applications. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 1238-1241. (J. L. Snell) 33 #3339
(with Sarmanov, O. V.) A combinatorial problem of N. V. Smirnov. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 530-532. (F. L. Spitzer) 36 #2188
(with Sarmanov, O. V.) The law of distribution of the number of runs in a homogeneous Markov chain. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 526-528. (J. L. Snell) 37 #3653
(with Sarmanov, O. V.) Asymptotic methods of investigation of the intersections of a Gaussian Markov process with a prescribed level. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 600-615. (I. Cuculescu) 40 #3608
(with Sarmanov, O. V.; Sevast′janov, B. A.) A sequential χ^2 test. (Russian) *Mat. Sb. (N.S.)* 79(121) (1969), 444-460. (G. K. Eagleson) 41 #6364
(See also Smirnov, N. V., 42 #30)

Zaharov, V. P.
On the determination of limit cycles. (Russian) *Čuvaš. Gos. Ped. Inst. Učen. Zap. No.* 15 (1963), 46-55. (W. A. Coppel) 30 #309
(with Il′in, A. A.) On a class of limit cycles. (Russian) *Čuvaš. Gos. Ped. Inst. Učen. Zap. No.* 15 (1963), 60-62. (W. A. Coppel) 30 #310
On the question of finding limit cycles of differential equations. (Russian) *Čuvaš. Gos. Ped. Inst. Učen. Zap.* 1963, *Vyp.* 18, 38-42. (W. S. Loud) 31 #3666
On coefficient criteria for the existence of limit cycles of a differential equation. (Russian) *Čuvaš. Gos. Ped. Inst. Učen. Zap. Vyp.* 20 (1964), 3-5. (W. S. Loud) 32 #250
On the question of determining periodic solutions of differential equations. (Russian) *Volž. Mat. Sb. Vyp.* 2 (1964), 54-55. (S. P. Hastings) 34 #427
Limiting cycles of infinite multiplicity. (Russian) *Differencial′nye Uravnenija* 1 (1965), 464-466. (R. Conti) 33 #349
On finding a limit cycle of an ordinary differential equation. (Russian) *Kirov. Gos. Ped. Inst. Učen. Zap. Vyp.* 23 (1965), 125-128. (J. W. Heidel) 36 #1750
Some questions of finding limit cycles. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 72-74. (M. Reghiş) 35 #5702
The periodic solutions of a system of ordinary differential equations. (Russian) *Čuvaš. Gos. Univ. i Čuvaš. Gos. Ped. Inst. Učen. Zap. Vyp.* 29 (1969), 98-101 *(errata insert)*. (G. Bojadžiev) 41 #5716

Zaharov, V. V.
A system of test functions for experimentation with methods of search for an extremum. (Russian) *Avtomat. i Vyčisl. Tehn.* 1968, *no.* 4, 31-36. (Author's summary) 44 #3749

Zaharova, E. Ju.
(with Jablonskiĭ, S. V.) Some properties of real functions in P_k. (Russian) *Problemy Kibernet. No.* 12 (1964), 247-252. (V. G. Kirin) 32 #7417
(with Kudrjavcev, V. B.; Jablonskiĭ, S. V.) Precomplete classes in *k*-valued logics. (Russian) *Dokl. Akad. Nauk SSSR* 186 (1969), 509-512. (L. W. Szczerba) 39 #6738 (E)
(with Kudrjavcev, V. B.; Jablonskiĭ, S. V.) A correction. (Russian) *Dokl. Akad. Nauk SSSR* 199 (1971), 90. (Editors) 43 #6058

Zaheer, Neyamat
On the progressive and Nörlund means of re-arranged partial sums of a Fourier series. *Rend. Circ. Mat. Palermo (2)* 15 (1966), 352-364. (F. R. Keogh) 39 #3233

Zahidov, N.
Boundary value problems for torsion in the moment theory of elasticity. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 12 (1969), *no.* 12, 7-11. (S. Drobot) 43 #4325
Integral equations of the problem of torsion in the moment theory of elasticity. (Russian. Tajiki summary) *Izv. Akad. Nauk Tadžik. SSR Otdel. Fiz.-Mat. i Geolog.-Him. Nauk* 1969, *no.* 4 (34), 3-7. (S. Drobot) 43 #4326

Zahirov, M.
Construction of an interpolation formula with coefficients known in advance. (Russian) *Taškent. Gos. Univ. Naučn. Trudy Vyp.* 276 (1966), 43-46. (A. S. Householder) 35 #1180

Zahl, Samuel
A deformation method for quadratic programming. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 141-160. (E. M. L. Beale) 30 #1861
Supplement to "A deformation method for quadratic programmi *J. Roy. Statist. Soc. Ser. B* 27 (1965), 166-168. (Author's summa 32 #7251
Bounds for the central limit theorem error. *SIAM J. Appl. Math.* 14 (1966), 1225-1245. (A. D. McLaren) 35 #1077

Zahm, Charles L.
Passivity and positive reality. *Internat. J. Control (1)* 12 (1970), 173-181. (K. Kreith) 43 #5954

Zahn, C. T., Jr.
Black box maximization of circular coverage. *J. Res. Nat.* *Standards Sect. B* 66B (1962), 181-216. (L. W. Danzer) 29 #1583
Approximating symmetric relations by equivalence relations. *J. Soc. Indust. Appl. Math.* 12 (1964), 840-847. (J. W. Moon) 30 #2496
(with Witzgall, C.) Modification of Edmonds' maximum matchi algorithm. *J. Res. Nat. Bur. Standards Sect. B* 69B (1965), 91-9 (W. T. Tutte) 32 #5548

Zahn, Peter
Eine Einführung der reellen Zahlen in der operativen Mathema ohne die Unterscheidung von Sprachschichten. *Mitt. Math. Sem. Giessen Heft* 72 (1967), ii + 75 *pp.* (K. Schütte) 36 #2469
Eine Verallgemeinerung des Hauptsatzes von Gentzen. *Arch. Math. Logik Grundlagenforsch.* 12 (1969), 134-150. (A. S. Troelst 42 #40

Záhora, Jaroslav
Tangent nomograms with circles. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 91 (1966), 308-319. 34 #2223
Modifications in generalized topological spaces. (Czech. Russian summary) *Sb. Voj. Akad. (Brno)* 14 (1966), *no.* 6, 93-98. (Author's summary) 36 #4512
Nomograms with an oriented transparency, with tangency conta and circular systems of marked lines. (Russian. Czech and French summaries) *Apl. Mat.* 13 (1968), 376-387. (Author's summary) 39 #1147
Nomograms adjoint to nomograms with concurrent lines and to nomograms with tangential contact which have at least one system of curved isopleths. (Czech. French summary) *Apl. Mat.* 14 (1969 195-209. 39 #3732

Zahorski, Stefan
Some problems of motion and stability for hygrosteric materi (Polish and Russian summaries) *Arch. Mech. Stos.* 15 (1963), 915-940. (A. E. Green) 31 #4234
A theory of small motion superposed on fundamental slow defo mations of non-linear viscoelastic materials. (Polish and Russian summaries) *Arch. Mech. Stos.* 17 (1965), 671-686. (A. Wineman) 34 #7095

Zaĭcev, A. A.
(with Nikolenko, L. V.) Irreducible representations of a Grassmann algebra. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 3, 101-102. (J. de Pillis) 43 #3293

Zaĭcev, A. G.
The analytical design of systems that reproduce a useful signal in the presence of noise. *Avtomat. i Telemeh.* 24 (1963), 143-150 *(Russian. English summary); translated as Automat. Remote Control* 24 (1963), 139-145. (W. H. Fleming) 29 #1085

Zaĭcev, A. I.
Almost-periodic solutions of linear systems of ordinary differential equations. (Russian) *Differential Equations and their Appl. (Russian)*, *pp.* 35-39. *Izdat. "Nauka" Kazah. SSR, Alma-Ata*, 1967. (H. I. Freedman) 36 #6708
Analytic form of solutions of linear systems of differential equations with quasi-periodic coefficients. (Russian) *Differenci nye Uravnenija* 3 (1967), 219-225. (L. Pintér) 35 #1873
(with Kapišev, K. K.; Harasahal, V. H.) Quasiperiodic solutions of nonlinear systems of differential equations containing a small parameter. (Russian) *Differencial′nye Uravnenija* 3 (1967), 1100-1112. (M. Ráb) 35 #6947

Zaĭcev, D. Ī.
Groups with the condition of commutator minimality. (Russian *Sibirsk. Mat. Ž.* 6 (1965), 1014-1020. (H. Salzmann) 33 #5741
Stably solvable and stably nilpotent groups. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 509-511. (R. Göbel) 36 #2702
The existence of infinite solvable and infinite nilpotent subgroups in infinite groups. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1967, 772-775. (J. Cofman) 36 #2703
Stably nilpotent groups. (Russian) *Mat. Zametki* 2 (1967), 337-346. (U. Schoenwaelder) 36 #3887
Groups which satisfy a weak minimality condition. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 780-782. (I. M. S. Dey) 37 #2845

Solvable groups of finite rank. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 13-14. (I. M. S. Dey) 38 #1177

The existence of stably nilpotent subgroups in locally nilpotent groups. (Russian) *Mat. Zametki* 4 (1968), 361-369. (R. Göbel) 38 #1176

Groups which satisfy a weak minimality condition. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 472-482. (I. M. S. Dey) 38 #1178

(with Kljac′ka, L. M.) Nonabelian CL-groups. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1271-1273. (L. Dornhoff) 41 #353

Stably solvable groups. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 765-780. (B. Hartley) 41 #355

The groups which satisfy a weak minimality condition. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 323-331. (J. Wiegold) 39 #1562

Solvable groups of finite rank. (Russian) *Groups with Restricted Subgroups (Russian), pp.* 115-130. *"Naukova Dumka", Kiev,* 1971. (J. D. Dixon) 43 #2093

Normally factorizable groups. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 1007-1009. (J. Wiegold) 44 #2820

ĭcev, G. A.

Fundamental formulas for a multidimensional real spinor and an algebraic model of quantized wave fields. *Dokl. Akad. Nauk SSSR* 156 (1964), 294-297 *(Russian); translated as Soviet Physics Dokl.* 9 (1964), 363-366. (S. Sankaran) 32 #840

Representation of the classical simple Lie algebras by means of the associative algebra of a quantized Fermion field. (Russian) *Gravitation and the Theory of Relativity, No.* 4-5 *(Russian), pp.* 157-163. *Izdat. Kazan. Univ., Kazan,* 1968. (Author's summary (RŽFiz 1969 #7 B40)) 44 #2435

Maxwell's equations of general form and the group of exterior transformations of electromagnetic quantities. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 12, 19-23. (J. Virsik) 41 #7917

(with Solunin, A. M.) Certain properties of the exterior-invariant Maxwell equations, and the physical significance of the group of exterior transformations. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1969, *no.* 11, 53-57. (J. Virsik) 41 #9501

ĭcev, R. O.

* (with Danilov, K. G.; Maksimov, E. G.; Solov′eva, N. Ja.) Математический анализ. Часть I. (Russian) [Mathematical analysis. Part I] *Univ. Družby Narodov, Moscow,* 1963. 180 *pp. (errata insert)* (Editors) 39 #2551a

Solution of the superconductivity equations for a system of superconducting and normal metals. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 644-651 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 426-430. (D. S. Falk) 32 #2128

Boundary conditions for the superconductivity equations at temperatures close to critical. *Ž. Èksper. Teoret. Fiz.* 48 (1965), 1759-1771 *(Russian. English summary); translated as Soviet Physics JETP* 21 (1965), 1178-1185. (N. R. Werthamer) 33 #2308

ĭcev, V. I.

Projection spectra and bicompact extensions. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 521-524. (R. Engelking) 34 #8376

On the theory of Tihonov spaces. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 3, 48-57. (O. Frink) 35 #7286

Some classes of topological spaces and their bicompact extensions. (Russian) *Dokl. Akad. Nauk SSSR* 178 (1968), 778-779. (S. Warner) 37 #2187

Semiregular and Hausdorff bicompact extensions. (Russian) *Dokl. Akad. Nauk SSSR* 182 (1968), 27-30. (R. Engelking) 38 #2741

Infinite spectra of topological spaces and their limit spaces. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 20-23. (R. Engelking) 39 #2120

Finite spectra of topological spaces and their limit spaces. *Math. Ann.* 179 (1969), 153-174. (H. Herrlich) 39 #2129

Theorems on the realization of abstract projective spectra. (Russian) *Dokl. Akad. Nauk SSSR* 198 (1971), 277-278. (S. Warner) 44 #2203

ĭceva, G. S.

A multipoint boundary value problem. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 763-765. (L. de Branges) 36 #2874

Certain criteria for the non-oscillation of linear differential operators. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 1263-1264. (J. K. Hale) 37 #4331

ĭdel′, S. M.

(with Kirpičev, Ju. P.; Rastrigins, L.) An increase in the accuracy of the multidimensional extrapolation method in optimal projection. (Russian) *Avtomat. i Vyčisl. Tehn.* 1970, *no.* 1, 21-23. (Authors' summary) 44 #7720

ĭdenberg, M. G.

(with Vodovoz, D. G.) The number of generators in an algebra of continuous functions. (Russian) *Mat. Zametki* 10 (1971), 537-540. (M. Abel) 44 #7301

idi, Nazim Husain

Symmetrical balanced incomplete block designs with $\lambda = 2$ and $k = 9$. *Bull. Calcutta Math. Soc.* 55 (1963), 163-167. (M. Atiqullah) 32 #4808

Zaĭdman, R. A.

The asymptotics of certain sequences occurring in problems of non-Markovian walks and in the theory of information. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 1, 24-33. (Z. Daróczy) 33 #3840

(with Linnik, Ju. V.; Čulanovskiĭ, I. V.) On homogeneous tests for the Behrens-Fisher problem. *Trudy Mat. Inst. Steklov.* 79 (1965), 54-63 *(Russian); translated as Proc. Steklov Inst. Math. No.* 79 (1966), 57-67. (H. E. Reinhardt) 35 #3802

(with Linnik, Ju. V.; Romanovskiĭ, I. V.) Sequential estimation schemes and Markov stopping times. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 1222-1225. (V. Kurotschka) 41 #4738

Zaidman, Samuel

Un teorema di esistenza per un problema non bene posto. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 17-22. (H. G. Garnir) 30 #357

Quasi-periodicità per una equazione operazionale del primo ordine. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 35 (1963), 152-157. (C. Corduneanu) 29 #5134

Soluzioni limitate o quasi-periodiche dell'equazione di Poisson. *Ann. Mat. Pura Appl.* (4) 64 (1964), 365-405. (M. Coroi-Nedelcu) 32 #6037

Almost-periodicity for some differential equations in Hilbert spaces. *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 37 (1964), 253-257 (1965). (V. Lakshmikantham) 32 #2710

A global existence theorem for some differential equations in Hilbert spaces. *Proc. Nat. Acad. Sci. U.S.A.* 51 (1964), 1019-1022. (J. Peetre) 29 #1557

Un teorema di esistenza globale per alcune equazioni differenziali astratte. *Ricerche Mat.* 13 (1964), 56-69. (M. Coroi-Nedelcu) 30 #358

Soluzioni quasi-periodiche per alcune equazioni differenziali in spazi hilbertiani. *Ricerche Mat.* 13 (1964), 118-134. (R. S. Freeman) 29 #3910

Convexity properties for weak solutions of some differential equations in Hilbert spaces. *Canad. J. Math.* 17 (1965), 802-807. (W. Littman) 34 #4643

* Équations différentielles abstraites. Séminaire de Mathématiques Supérieures, No. 18 (Été, 1965). *Les Presses de l'Université de Montréal, Montreal, Que.,* 1966. 79 *pp.* (B. Hellwig) 40 #3369

Some non-homogeneous symbols and associated pseudo-differential operators. *Ann. Scuola Norm. Sup. Pisa* (3) 21 (1967), 547-574. (P. Szeptycki) 37 #577

Operatori pseudo-differenziali. (English summary) *Rend. Sem. Mat. Fis. Milano* 37 (1967), 183-190. (Author's summary) 37 #3186

Una proprietà dei simboli non-omogenei, e degli operatori pseudo-differenziali associati. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 1-6. (P. Szeptycki) 40 #1826

Sui commutatori di alcuni operatori pseudo-differenziali. (French summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 13 (1968), 33-36. (P. Szeptycki) 40 #1827

(with Günzler, H.) Abstract almost periodic differential equations. *Abstract Spaces and Approximation (Proc. Conf., Oberwolfach,* 1968*), pp.* 387-392. *Birkhäuser, Basel,* 1969. (D. Wexler) 41 #3946

Uniqueness of bounded weak solutions for some abstract differential equations. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 97-100. (A. Pazy) 41 #7247

An inequality for a certain Friedrichs operator. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 105-107. (F. Cardoso) 42 #905

On elementary solutions of abstract differential equations. *Boll. Un. Mat. Ital.* (4) 2 (1969), 487-490. (R. Showalter) 41 #612

On some almost-periodic functions. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 29-34. (H. Günzler) 43 #7864

Uniqueness of bounded solutions for some abstract differential equations. (Italian summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 14 (1969), 101-104. (A. Pazy) 41 #7246

Variational result for some classes of vector-valued functions. (Italian summary) *Ist. Lombardo Accad. Sci. Lett. Rend. A* 103 (1969), 408-411. (H. Amann) 40 #4833

A certain partition of the unity. *J. Math. Anal. Appl.* 27 (1969), 511-515. (J. Calvert) 39 #4344

Spectrum of almost-periodic solutions for some abstract differential equations. *J. Math. Anal. Appl.* 28 (1969), 336-338. (V. Lakshmikantham) 39 #7303

(with Günzler, H.) Almost-periodic solutions of a certain abstract differential equation. *J. Math. Mech.* 19 (1969/70), 155-158. (J. Prouse) 40 #7607

Bounded solutions of some abstract differential equations. *Proc. Amer. Math. Soc.* 23 (1969), 340-342. (J. A. Goldstein) 39 #7259

An existence theorem for bounded vector-valued functions. *Ann. Scuola Norm. Sup. Pisa* (3) 24 (1970), 85-89. (H. Burkhill) 42 #3618

Some elementary inequalities. (Italian summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 213-216. (V. Ganapathy Iyer) 41 #7051

A characterization of elliptic pseudo-differential operators. *Boll. Un. Mat. Ital.* (4) 3 (1970), 656-659. (J. Unterberger) 42 #4871

A remark on integration of almost-periodic functions. *Canad. Math. Bull.* 13 (1970), 249-251. (A. C. M. van Rooij) 42 #4960

Some asymptotic theorems for abstract differential equations. *Proc. Amer. Math. Soc.* 25 (1970), 521-525. (J. Prouse) 42 #540

Two remarks on pseudo-differential operators. *Ricerche Mat.* 19 (1970), 3-8. (F. Cardoso) 43 #3867

Zaikin, P. N.

The numerical solution of the inverse problem of operational calculus in the real domain. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 411-415. (H. A. Lauwerier) 38 #6747

Zaĭkov, R. P.

(with Todorov, I. T.) Spectral representation of the covariant two-point function and infinite-component fields with arbitrary mass spectrum. *J. Mathematical Phys.* 10 (1969), 2014-2019. (D. Lurié) 41 #4935

(with Kademova, Krasimira; Palev, Čavdar) Mass formulae in the group $\mathcal{P}_U$. (Russian. Bulgarian and English summaries) *B"lgar. Akad. Nauk. Otdel. Mat. Fiz. Nauk. Izv. Fiz. Inst. s Aneb* 16 (1967), 149-164. (K. R. Parthasarathy) 43 #1538

Zaĭkov, Raško

Static and spheric solutions of Einstein equations. *C. R. Acad. Bulgare Sci.* 18 (1965), 725-726. (H. A. Buchdahl) 32 #7197

Zaĭnulabidov, M. M.

Certain boundary value problems for equations of mixed type with two perpendicular lines of degeneracy. (Russian) *Differencial'nye Uravnenija* 5 (1969), 91-99. (L. von Wolfersdorf) 39 #4524

A certain boundary value problem for a model equation of mixed type with two perpendicular lines of degeneracy. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 986-989. (A. Haimovici) 40 #7639

A boundary value problem for equations of mixed type with two intersecting curves of degeneracy. (Russian) *Differencial'nye Uravnenija* 6 (1970), 99-108. (A. M. Nahušev) 43 #7788

Zaitsev, A. G. See Zaĭcev, A. G.

Zaitsev, G. A. See Zaicev, G. A.

Zaĭtsev, R. O. See Zaĭcev, R. O.

Zajac, R. Wojdanowska. See Wojdanowska-Zajac, R.

Zajączkowski, B.

Approximate solution for flow of a compressible fluid about a circular cylinder. *Acta Phys. Polon.* 28 (1965), 663-670. (C. S. Morawetz) 35 #1267

Zajíček, Ladislav

(with Nádeník, Zbyněk) Geodätische Linie und Gegennormalschnitte. I. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 258-263. (E. Bompiani) 38 #5122

Zajíček, Luděk

On Baire classes. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 240-241. (T. Šalát) 42 #7837

A note on the theory of the integral. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 242-247. (J. Mařík) 43 #2182

Zajtz, Andrzej

Über eine Eigenschaft der geodätischen Linien auf den Zylinder und Rotationsflächen. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 7 (1962), 69-72. (A. Fialkow) 33 #6523

Über die Differenzierbarkeitsvoraussetzungen bei der allgemeinen Schraubenlinie. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 9 (1963), 93-97. (A. Fialkow) 33 #6524

(with Kuczma, M.) Über die multiplikative Cauchysche Funktionalgleichung für Matrizen dritter Ordnung. *Arch. Math.* 15 (1964), 136-143. (B. Schweizer) 29 #389

Komitanten der Tensoren zweiter Ordnung. (Polish summary) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 8 (1964), 58 *pp.* (T. Okubo) 35 #6069

Über die Invarianten zweiter Ordnung auf einer Fläche S_n im affinen Raum A_{n+2}. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 459-464. (P. Scherk) 33 #646

(with Kucharzewski, M.) Über die linearen homogenen geometrischen Objekte des Typus $[m, n, 1]$, wo $m \leq n$ ist. *Ann. Polon. Math.* 18 (1966), 205-225. (J. Aczél) 34 #523

(with Kuczma, Marek) On the form of real solutions of the matrix functional equation $\Phi(x)\Phi(y) = \Phi(xy)$ for non-sungular matrices Φ. *Publ. Math. Debrecen* 13 (1966), 257-262. (J. Aczél) 34 #3147

Certain canonical coordinates of points with respect to one-parameter linear homogeneous transformations of space. (Russian) *Ukrain. Geometr. Sb. Vyp.* 3 (1966), 43-47. (M. Kuczma) 35 #5799

Primitive geometric objects. *Zeszyty Nauk. Uniw. Jagiell Prace Mat. Zeszyt* 11 (1966), 105-111. (Ju. Lumiste (RŽMat 196 #6 A622)) 44 #945

Algebraic operations on geometric objects. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 11 (1966), 113-117. (Ju. Lumiste (RŽMat 1968 #6 A621)) 44 #946

(with Siwek, E.) Contribution à le théorie des pseudo-objets géométriques. *Ann. Polon. Math.* 19 (1967), 185-192. (A. Nijenhuis) 35 #6071

(with Kucharzewski, M.) Klassifikation der linearen homogenen geometrischen Objekte, deren Komponentenzahl die Dimension des Raumes nicht übertrifft. *Colloq. Math.* 16 (1967), 185-192. (J. Aczél) 35 #2231

(with Kuczma, Marek) Quelques remarques sur l'équation fonctionnelle matricielle multiplicative de Cauchy. *Colloq. Math.* 18 (1967), 159-168. (S. Kurepa) 36 #5554

Über die Äquivalenz der geometrischen Objekte. *Ann. Polon. Math.* 20 (1968), 41-50. (Z. Moszner) 37 #2115

Über die Skalarkomitanten der geometrischen Objekte. *Ann. Polon. Math.* 20 (1968), 51-56. (Z. Moszner) 37 #3467

Algebraic objects. *Zeszyty Nauk. Uniw. Jagiello. Prace Ma No.* 12 (1968), 67-79. (M. Kuczma) 37 #1297

On equivalence of certain definitions of geodesics on surfaces of weak regularity. *Zeszyty Nauk. Uniw. Jagiello. Pra Mat. No.* 12 (1968), 81-92. (A. Fialkow) 37 #2102

Non-existence of certain concomitants of the singular tensor Λ^{a}_{ij} and its geometrical interpretation. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 12 (1968), 93-100. (E. Kreyszig 37 #2116

(with Siwek, E.) Sur un problème de S. Gołab. *Ann. Polon. Math.* 22 (1969/70), 107-120. (G. Tallini) 40 #1944

On singular solutions of a matrix multiplicative functiona equation. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 117-124. (O. Em. Gheorghiu) 40 #3103

Žak, I. E.

On the properties of conjugate functions of two variables in the L_p metric. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 39 (1965), 15-19. (G. Goes) 32 #6150

(with Šneĭder, A. A.) Conditions for uniform convergence of double series. (Russian) *Izv. Vysš. Učebn. Zaved. Matematik* 1966, *no.* 4 (53), 44-52. (F. Ustina) 33 #6295

(with Šneĭder, A. A.) On uniform convergence of a certai class of double trigonometrical series. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 41 (1966), 273-276. (F. Ustina) 35 #664

Zak, J.

Magnetic translation group. II. Irreducible representati *Phys. Rev.* (2) 134 (1964), A1607-A1611. (H. W. Lewis) 31 #203

Magnetic translation group. *Phys. Rev.* (2) 134 (1964), A1602-A1606. (H. W. Lewis) 31 #2031

Group-theoretical consideration of Landau level broadening in crystals. *Phys. Rev.* (2) 136 (1964), A776-A780. (M. Sachs) 31 #2035

Proper functions for a Bloch electron in a magnetic field. *Phys. Rev.* (2) 139 (1965), A1159-A1162. (C. Enz) 33 #3736

(with Litvin, D. B.) Clebsch-Gordan coefficients for space groups. *J. Mathematical Phys.* 9 (1968), 212-221. (D. A. Uhlenbrock) 39 #1175

* (with Casher, A.; Glück, M.; Gur, Y.) The irreducible representaions of space groups. Edited by J. Zak. *W. A. Benjamin, Inc., New York,* 1969. x + 271 *pp.* (A. Kihlberg) 41 #3619

Zak, Ju. O.

Determining the order of execution of independent operatio on parallel machines. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 2, 15-20 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 2, 12-17. (U. Weisner) 42 #8884

A computational scheme of solving linear programming problems. (Russian) *Èkonom. i Mat. Metody* 7 (1971), 283-286. (K. Zimmermann) 44 #6332

Zak, M. V.

An expansion theorem for a translation-invariant subspace of the one-dimensional wave equation. (Russian. English summary) *Vestnik Leningrad. Univ.* 24 (1969), *no.* 19, 25-34. (M. Kopáčková) 42 #705

Žak, S. V.

(with Litver, E. L.) Certain questions in parametric linear programming. (Russian) *Questions Numer. Math. Comput. Techn. (Russian), pp.* 8-22. *Izdat. Rostov. Univ., Rostov,* 1965. (M. L. Juncosa) 35 #1346

The two-dimensional equations of a process of birth and death. (Russian) *Mathematical Analysis and its Applications (Russian), pp.* 83-90. *Izdat. Rostov. Univ. Rostov-na-Donu,* 1969. (G. Arsenišvili) 44 #3400

Zakai, Moshe

(with Wong, Eugene) On the convergence of ordinary integrals to stochastic integrals. *Ann. Math. Statist.* 36 (1965), 1560-1564. (T. Watanabe) 33 #3345

Band-limited functions and the sampling theorem. *Information and Control* 8 (1965), 143-158. (C. S. Lorens) 30 #4607

(with Wong, Eugene) On the relation between ordinary and stochastic differential equations. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 3 (1965), 213-229. (G. Maruyama) 32 #505

(with Wong, Eugene) The oscillation of stochastic integrals. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 4, 103-112 (1965). (Simeon M. Berman) 32 #3112

Some moment inequalities for stochastic integrals and for solutions of stochastic differential equations. *Israel J. Math.* 5 (1967), 170-176. (A. Moro) 37 #991

On the ultimate boundedness of moments associated with solutions of stochastic differential equations. *SIAM J. Control* 5 (1967), 588-593. (A. Moro) 37 #992

(with Ziv, Jacob) On the threshold effect in radar range estimation. *IEEE Trans. Information Theory* IT-15 (1969), 167-170. (Authors' summary) 39 #2523

(with Ziv, Jacob) Some lower bounds on signal parameter estimation. *IEEE Trans. Information Theory* IT-15 (1969), 386-391. (Authors' summary) 39 #5236

A Lyapunov criterion for the existence of stationary probability distributions for systems perturbed by noise. *SIAM J. Control* 7 (1969), 390-397. (J. Fichefet) 41 #7781

On the optimal filtering of diffusion processes. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 11 (1969), 230-243. (R. S. Bucy) 39 #3883

(with Wong, Eugene) Riemann-Stieltjes approximations of stochastic integrals. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 12 (1969), 87-97. (D. W. Stroock) 39 #7671

(with Snyders, Jakov) Stationary probability measures for linear differential equations driven by white noise. *J. Differential Equations* 8 (1970), 27-33. (J. Fichefet) 41 #4685

(with Snyders, J.) On nonnegative solutions of the equation $AD + DA' = -C$. *SIAM J. Appl. Math.* 18 (1970), 704-714. (W. Ledermann) 41 #3501

(with Kailath, Thomas) Absolute continuity and Randon-Nikodym derivatives for certain measures relative to Wiener measure. *Ann. Math. Statist.* 42 (1971), 130-140. (J. A. Beekman) 43 #5608

ker, T. A.

Stress waves generated by heat addition in an elastic solid. *Trans. ASME Ser. E. J. Appl. Mech.* 32 (1965), 143-150. (B. A. Boley) 30 #3636

khariev, B. N.

(with Sokolov, S. N.) On virtual excitations of a compound particle. *Ann. Physik* (7) 15 (1965), 183-191. (L. M. Delves) 31 #5519

(with Kalinauskas, R. K.) On the bound state of three particles. *Ann. Physik* (7) 16 (1965), 305-311. (G. H. Derrick) 33 #5312

khar-Itkin, M. Kh. See Zahar-Itkin, M. H.

kharov, E. V. See Kaharov, E. V.

kharov, V. D. See Zaharov, V. D.

kharov, V. I. See Zaharov, V. I.

kharov, V. K. See Zaharov, V. K.

ki, K.

(with Neureuther, A. R.) Numerical solutions of electromagnetic boundary value problems by means of the asymptotic anticipation method. *Radio Sci.* 3 (1968), 1158-1167. (Authors' summary) 38 #1877

on, Elias

On iterated limits of measurable mappings. *Canad. Math. Bull.* 8 (1965), 83-91. (R. D. Ryan) 31 #1350

On "essentially metrizable" spaces and on measurable functions with values in such spaces. *Trans. Amer. Math. Soc.* 119 (1965), 443-453. (H. M. Schaerf) 36 #1603

Separability and the continuum hypothesis. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 667-670. (J. R. Isbell) 35 #971

On the "essential metrization" of uniform spaces. *Canad. J. Math.* 18 (1966), 1224-1236. (J. C. Oxtoby) 34 #785

Integration of non-measurable functions. *Canad. Math. Bull.* 9 (1966), 307-330. (T. H. Hildebrandt) 34 #303

On uniform approximations of abstract functions. *Canad. Math. Bull.* 10 (1967), 99-108. (A. F. Monna) 35 #6792

On uniform spaces with quasi-nested base. *Trans. Amer. Math. Soc.* 133 (1968), 373-384. (R. W. Bagley) 37 #3514

Remarks on the nonstandard real axis. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasedena, Calif., 1967), pp. 195-227. Holt, Rinehart and Winston, New York,* 1969. (W. A. J. Luxemburg) 39 #183

(with Robinson, Abraham) A set-theoretical characterization of enlargements. *Applications of Model Theory to Algebra, Analysis, and Probability (Internat. Sympos., Pasadena, Calif., 1967), pp. 109-122. Holt, Rinehart and Winston, New York,* 1969. (L. D. Kugler) 39 #1319

Žakovskiĭ, V. See Żakowski, Wojciech.

Żakowski, Wojciech

Sur un problème non linéaire et discontinu de Hilbert-Haseman. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 287-292. (H. Widom) 29 #6037

On a certain generalization of the Hilbert-Haseman problem for a system of functions. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 1 (1964), 89-101. (J. Szarski) 35 #5637

Proof of the compactness of a certain set of functions of the class $\mathfrak{H}$. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 57-62. (S. G. Mrowka) 33 #2817

(with Otto, Edward; Wolska-Bochenek, Janina; Sadowska, Danuta; Oderfeld, Jan; Borsuk, Karol; Rytel, Zdzisław; Piatkiewicz, Aleksy; Leĭtner, Roman; Bieńkowska-Lipińska, Krystyna) Professor Witold Pogorzelski. (Polish) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 113-136. (Editors) 32 #5487

Application of Tihonov's theorem to the investigation of an infinite system of generalized integral equations. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 3 (1964), 109-119. (M. Mişicu) 33 #527

On the nonlinear and discontinuous problem of Hilbert-Haseman. (Russian) *Ann. Polon. Math.* 16 (1965), 317-332. (J. F. Heyda) 31 #362

An investigation of the non-linear Hilbert-Haseman problem by means of Schauder's method. (Polish. English summary) *Prace Mat.* 9 (1965), 35-48. (J. F. Heyda) 31 #363

Investigation of a system of singular integral equations in the class of Pogorzelski's $\mathfrak{H}$ functions. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 4 (1965), 17-29. (M. Mişicu) 33 #6323

(with Magomedov, Ğ. A.) Investigation of a generalized system of singular integral equations in the class of functions $\mathfrak{H}$ of Pogorzelski. (Russian) *Dokl. Akad. Nauk SSSR* 168 (1966), 989-992. (Tadeusz Leżański) 34 #575

On an infinite system of non-linear singular integral equations in a Euclidean space. *Colloq. Math.* 18 (1967), 151-157. (N. Louat) 37 #1921

(with Leksiński, Wacław) Remarks on functions of the class $\mathfrak{H}_{\alpha}^{\mu}$ of Pogorzelski. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 12 (1968), 165-174. (Authors' summary) 38 #312

On some properties of the Cauchy type integral in the Euclidean space E_3. *Demonstratio Math.* 1 (1969), *no.* 4, 37-47. (Author's summary) 43 #5053

Zakrajšek, Egon

The method of Danilevskiĭ for the calculation of eigenvalues and eigenvectors of a matrix. (Slovenian) *Obzornik Mat. Fiz.* 12 (1965), 8-14. (T. T. Tonkov) 34 #8633

Zakrevskiĭ, A. D.

Functional stability of contact circuits relative to spurious closings. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1336-1343. (A. A. Mullin) 30 #2986

(with Butakov, E. A.) Some questions of the realization of Boolean functions on threshold elements. I. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 1, 39-49. (J. Kuntzmann) 32 #9153

Algorithms of minimization of weakly defined Boolean functions. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 2, 53-60. (Author's summary) 34 #5588

Minimization of disjunctive normal forms of Boolean functions. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 4, 102-104 *(Russian); translated as Engrg. Cybernetics* 8 (1970), *no.* 4, 710-712 (1971). (B. Reusch) 44 #5190

Zakrevskiy, A. D. See Zakrevskiĭ, A. D.

Zaks, Abraham

Residue rings of semi-primary hereditary rings. *Nagoya Math. J.* 30 (1967), 279-283. (J. P. Jans) 37 #1409

A note on semi-primary hereditary rings. *Pacific J. Math.* 23 (1967), 627-628. (D. C. Murdoch) 36 #1488

Global dimension of Artinian rings. *Proc. Amer. Math. Soc.* 18 (1967), 1102-1106. (D. C. Murdoch) 36 #203

Semi-primary hereditary rings. *Israel J. Math.* 6 (1968), 359-362 (1969). (J. P. Jans) 39 #5632

Semiprimary rings of generalized triangular type. *J. Algebra* 9 (1968), 54-78. (H. Tominaga) 36 #6455

(with Pollingher, Adolf) Some remarks on quasi-Frobenius rings. *J. Algebra* 10 (1968), 231-239. (W. H. Caldwell) 38 #2160

Simple modules and hereditary rings. *Pacific J. Math.* 26 (1968), 627-630. (L. W. Small) 39 #254

Injective dimension of semi-primary rings. *J. Algebra* 13 (1969), 73-86. (A. Rosenberg) 39 #5640

(with Evyatar, A.) Purely transcendental subfields of $k(x_1, \cdots, x_n)$. *Proc. Amer. Math. Soc.* 22 (1969), 582-586. (P. Samuel) 39 #4138

Restricted Gorenstein rings. *Illinois J. Math.* 13 (1969), 796-803. (L. J. Ratliff, Jr.) 40 #141

Quasi-Frobenius X-rings. *Canad. Math. Bull.* 13 (1970), 23-30. (E. H. Feller) 41 #5423

(with Pollingher, Adolf) On Baer and quasi-Baer rings. *Duke Math. J.* 37 (1970), 127-138. (W. E. Clark) 40 #5665

Hereditary local rings. *Michigan Math. J.* 17 (1970), 267-272. (H. H. Storrer) 42 #4593

(with Evyatar, A.) Rings of polynomials. *Proc. Amer. Math. Soc.* 25 (1970), 559-562. (Joseph Lipman) 41 #3466

Dedekind subrings of $k[x_1,\cdots,x_n]$ are rings of polynomials. *Israel J. Math.* 9 (1971), 285-289. (W. Heinzer) 43 #6191

Semiprimary hereditary algebras. *Trans. Amer. Math. Soc.* 154 (1971), 129-135. (J. P. Jans) 43 #2024

Zaks, Joseph

On the number of k-simplexes in the m-th Barycentric subdivision of an r-simplex. *J. Combinatorial Theory* 6 (1969), 213-216. (H. Gupta) 38 #3162

On minimal complexes. *Pacific J. Math.* 28 (1969), 721-727. (R. H. Rosen) 39 #4854

Trivially extending decompositions of E^n. *Pacific J. Math.* 29 (1969), 727-729. (R. Bean) 40 #4933

On a minimality property of complexes. *Proc. Amer. Math. Soc.* 20 (1969), 439-444. (C. W. Patty) 39 #946

On finite decompositions of E^{2n-1}. *Proc. Amer. Math. Soc.* 20 (1969), 445-449. (K. W. Kwun) 38 #3847

On the 1-factors of n-connected graphs. *Combinatorial Structures and their Applications (Proc. Calgary Internat. Conf., Calgary, Alta., 1969), pp.* 481-488. *Gordon and Breach, New York,* 1970. (From the author's introduction) 41 #8290

Correction to: "Trivially extending decompositions of E^n". *Pacific J. Math.* 35 (1970), 805. (Editors) 42 #8467

The analogue of Eberhard's theorem for 4-valent graphs on the torus. *Israel J. Math.* 9 (1971), 299-305. (D. Barnette) 43 #7369

On the 1-factors of n-connected graphs. *J. Combinatorial Theory Ser. B* 11 (1971), 169-180. (M. D. Plummer) 43 #7365

On a conjecture of A. J. Hoffman. *Proc. Amer. Math. Soc.* 27 (1971), 122-125. (G. T. Sallee) 43 #1039

Žakupov, Ž. N.

The asymptotic solution of a boundary value problem for a system of linear ordinary differential equations with small parameter in the highest derivative. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 1, 85-86. (M. I. Imanaliev) 43 #6543

Zalcman, Lawrence

(with Voichick, Michael) Inner and outer functions on Riemann surfaces. *Proc. Amer. Math. Soc.* 16 (1965), 1200-1204. (N. L. Alling) 32 #1359

* Analytic capacity and rational approximation. Lecture Notes in Mathematics, No. 50. *Springer-Verlag, Berlin-New York,* 1968. vi + 155 *pp.* (G. G. Lorentz) 37 #3018

Null sets for a class of analytic functions. *Amer. Math. Monthly* 75 (1968), 462-470. (F. W. Carroll) 37 #6448

A note on invariant subspaces. *Illinois J. Math.* 12 (1968), 303-306. (P. Civin) 37 #6790

A note on absolute continuity. *J. Math. Anal. Appl.* 24 (1968), 527-529. (K. M. Garg) 38 #6017

Analytic functions and Jordan arcs. *Proc. Amer. Math. Soc.* 19 (1968), 508. (Kenneth O. Leland) 37 #396 (E)

Hadamard products of schlicht functions. *Proc. Amer. Math. Soc.* 19 (1968), 544-548. (M. S. Robertson) 37 #399

Addendum to "Analytic functions and Jordan arcs". *Proc. Amer. Math. Soc.* 21 (1969), 507. (Kenneth O. Leland) 38 #6062

Bounded analytic functions on domains of infinite connectivity. *Trans. Amer. Math. Soc.* 144 (1969), 241-269. (S. Merrill) 40 #5884

Zalcstein, Yechezkel

Studies in the representation theory of finite semigroups. *Trans. Amer. Math. Soc.* 161 (1971), 71-87. (R. Renne) 44 #337

Žaldak, M. I.

Čebyšev approximation of a continuous function by a polynomial with restrictions on its coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 493-496. (B. Kellogg) 31 #3773

A problem in linear programming with continuously given limitations. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 241-247. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (Editors) 32 #9044

(with Kovbasenko, B. S.) On a certain problem of quadratic programming. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukrain. RSR* 1965, 990-993. (Authors' summary) 32 #9065

(with Kovbasenko, B. S.; Širvanov, A. G.) On a certain algorithm for solving an infinite-dimensional system of inequalities. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1965, *no.* 6, 29-33. (J. H. Halton) 35 #6342

Zalenko, M. S. See Calenko, M. S.

Zalesskiĭ, A. E.

Solvable groups and crossed products. (Russian) *Mat. Sb. (N.S.)* 67(109) (1965), 154-160. (E. Schenkman) 32 #2477 (E)

On the semi-simplicity of a cross product. (Russian) *Sibir Mat. Ž.* 6 (1965), 1009-1013. (S. E. Dickson) 33 #2672

Reduction of certain combinatorial problems to integer linea programming. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Na* 1965, *no.* 3, 24-28. (E. Ja. Gabovič) 42 #1520

Locally finite groups with a minimality condition for the centralizers. (Russian) *Vescī Akad. Navuk BSSR Ser. Fīz.-Mat. Navuk* 1965, *no.* 3, 127-129. (I. M. S. Dey) 43 #3331

(with Platonov, V. P.) The Auerbach problem. (Russian) *Dok Akad. Nauk BSSR* 10 (1966), 5-6. (A. J. Coleman) 33 #224

On subgroups of rings without divisors of zero. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 728-731. (S. P. Bandyopadhyay) 34 #2630

A letter to the editors. (Russian) *Mat. Sb. (N.S.)* 71(113) (1966), 143. (Editors) 33 #4147

Maximal periodic subgroups of the full linear group over a field with positive characteristic. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 2, 121-123. (Editors) 33 #2732

Sylow p-subgroups of the full linear group over a field. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1149-1158. (E. Schenkman) 36 #2710

The structure of certain classes of matrix groups over a sfield. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 1284-1298. (L. Fu 36 #3895

The classical groups. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 107-109. (J. P. Wilson) 37 #2871

A remark on the triangular linear group. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 2, 129-131. (O. Kegel) 38 #5944

The group of bounded automorphisms of a linear space. (Russ *Dokl. Akad. Nauk BSSR* 13 (1969), 485-488. (I. M. S. Dey) 41 #3

Conjugacy in the classical groups. (Russian) *Vescī Akad. N BSSR Ser. Fīz.-Mat. Navuk* 1969, *no.* 4, 93-98. (E. M. Levič) 41 #3623

The construction of a finitely generated module over the gr algebra of a polycyclic group. (Russian) *Dokl. Akad. Nauk BSSR* 14 (1970), 977-980. (K. W. Roggenkamp) 44 #6862

The group algebras of solvable groups. (Russian) *Vescī Aka Navuk BSSR Ser. Fīz.-Mat. Navuk* 1970, *no.* 2, 13-21. (O. H. Kegel 44 #6863

A nilpotent p-group possesses an outer automorphism. (Russia *Dokl. Akad. Nauk SSSR* 196 (1971), 751-754. (F. Haimo) 43 #350

Subgroups of the classical groups. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 126-133. (E. Schenkman) 43 #6326

The group rings of linear groups. (Russian) *Sibirsk. Mat.* 12 (1971), 346-352. (I. Reiner) 44 #2855

Zaletova, L. G.

The Cauchy problem in "intermediate" Jevrey spaces. (Russia *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russi pp.* 81-86. *Habarovsk, Gos. Ped. Inst., Khabarovsk,* 1967. (N. D. Kazarinoff) 41 #3990

Zalewski, Kacper

Evolution of a simple system towards equilibrium. *Acta Phy Polon.* 24 (1963), 485-492. (E. J. Verboven) 29 #3188

On the quantum-mechanical description of non-isolated syste *Acta Phys. Polon.* 24 (1963), 681-688. (S. L. Glashow) 29 #315

(with Kotański, Andrzej) A diagrammatic method for handlin invariants built from 3-j symbols. *Acta Phys. Polon.* 26 (1964), 109-116. (R. F. Stora) 32 #5219

(with Kotański, Andrzej) Isospin crossing matrices for man particle processes. *Acta Phys. Polon.* 26 (1964), 117-127. (R. Stora) 33 #5264

Remark on the exact solution of the master equation for a model proposed by Janner, Van Hove and Verboven. *Physica* 30 (19 475-478. (Author's summary) 29 #1004

(with Kotański, A.; Sredniawa, B.) Physical bounds for the components of statistical tensors. *Nuclear Phys.* B23 (1970), 54 546. (Z. Jankovič) 42 #5570

Zalgaller, S. I.

On the convergence of some summing operators. (Russian) *Ka Gos. Univ. Učen. Zap.* 124 (1964), *kn.* 6, 119-134. (A. Peyerimho 35 #7043

(See also Blaschke, Wilhelm, 36 #4417)

Zalgaller, Viktor A.

(with Rešetnjak, Ju. G.) Two-dimensional manifolds of bounded curvature. (Russian) *Proc. Fourth All-Union Math. Congr (Leningrad, 1961) (Russian), Vol. II, pp.* 209-215. *Izdat. "Nauka Leningrad,* 1964. (E. Sen'kin (RŽMat 1965 #6 A393)) 36 #3295

Curves on a surface near a point of the spike type. (Russia *Trudy Mat. Inst. Steklov.* 76 (1965), 64-66. (L. C. Young) 34 #3509

(with Burago, Ju. D.) The isoperimetric problem in the cas of limitation of the width of a domain on a surface. (Russian) *Trudy Mat. Inst. Steklov.* 76 (1965), 81-87. (L. C. Young) 34 #1972

On regular-faced polyhedra. (Russian. English summary) Collective authorship under V. A. Zalgaller. *Vestnik Leningrad. Univ.* 20 (1965), *no.* 1, 150-152. (R. C. Lyndon) 33 #633

(See also Two-dimensional manifolds of bounded curvature, 35 #6052 and Blaschke, Wilhelm, 36 #4417)

* (with Aleksandrov, A. D.) Intrinsic geometry of surfaces. Translated from the Russian by J. M. Danskin. Translations of Mathematical Monographs, Vol. 15. *American Mathematical Society, Providence, R.I.*, 1967. vi + 327 *pp.* (Editors) 35 #7267

Mixed volumes and the chance of a hit in a convex region under multidimensional normal distribution. (Russian) *Mat. Zametki* 2 (1967), 97-104. (K. Krickeberg) 35 #3711

Convex polyhedra with regular faces. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 2 (1967), 220 *pp.* (A. V. Pogorelov) 37 #3444

(with Alipov, Ju. M.) An isoperimetric problem on the maximum of the moment of inertia. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 4 (71), 3-5. (H. W. Guggenheimer) 37 #3449

(with Bodin, N. A.) Concavity of certain functions connected with the two-dimensional normal distribution. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 7 (1967), 389-393 (1968). (F. L. Spitzer) 37 #3617

* Convex polyhedra with regular faces. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 2. *Consultants Bureau, New York*, 1969. vi + 95 *pp.* (Editors) 39 #2064

aliznjak, N. F.

A generalization of a theorem of S. M. Lozinskiĭ. (Russian) *First Republ. Math. Conf. of Young Researchers, Part II (Russian), pp.* 255-260. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. (A. A. Armendáriz) 33 #1647

almanovič, Z. I.

The Lie algebras in which the normalizer has no multiple weights. (Russian) *Tul'sk. Gos. Ped. Inst. Učen. Zap. Fiz.-Mat. Nauk Vyp.* 7 (1960), 75-90. (G. B. Gurevič (RŽMat 1962 #3 A242)) 35 #5488

alogin, N. S.

* Конкурсные задачи по математике. (Russian) [Entrance examination problems in mathematics] Third, reprinted edition. *Izdat. "Tehnika", Kiev*, 1964. 616 *pp.* (N. D. Kazarinoff) 31 #5770

aludová, A. H.

(with Řezný, Z.; Ullrich, M.) A survey of some recent Czechoslovak work in automatic statistical process control. *J. Appl. Probability* 5 (1968), 43-54. (Authors' summary) 37 #1187

ama, Nobuo

A generalization of algorithms and one of its applications. I. *Comment. Math. Univ. St. Paul.* 15 (1966/67), 109-116. (A. P. Ershov) 37 #76

On some algebraic formulation of algorithms. *Comment. Math. Univ. St. Paul* 17 (1968), 53-62. (J. P. Roth) 38 #5628

amahovskiĭ, M. P.

(with Rozenfel'd, B. A.; Orlovskaja, T. G.; Semenova, I. N.) Quasisimple algebras, quasimatrices and spin representations of quasinoneuclidean motions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 4 (83), 62-73. (V. Havel) 40 #181

amanov, T. A.

(with Aliev, R. M.) Application of Galerkin's method to the solution of operator equations with retarded argument. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1964, *no.* 4, 21-26. (V. Lakshmikantham) 30 #2202

Differential equations with retarded argument in abstract spaces. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1967, *no.* 1, 3-7. (S. P. Hastings) 36 #1803

Differential equations with retarded argument in a Banach space. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 111-115. (J. K. Hale) 37 #4372

The stability of the solutions of evolutionary equations with retarded argument in a Banach space. (Russian. Azerbaijani summary) *Izv. Akad. Nauk Azerbaĭdžan. SSR Ser. Fiz.-Tehn. Mat. Nauk* 1968, *no.* 3, 129-135. (V. Lakshmikantham) 40 #6017

A certain operator equation in Hilbert space. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 1, 35-40. (C. E. Langenhop) 36 #5486

On the theory of the solutions of evolution equations with retarded argument. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 4, 37-44. (C. V. Coffman) 39 #1775

The stability of the solutions of differential equations with retarded argument under perturbations which are bounded in the mean. (Russian) *Differencial'nye Uravnenija* 5 (1969), 488-498. (R. F. Datko) 40 #503

Operator-differential equations with deviating argument. (Russian) *Izv. Vysš. Učebn. Zaved. Mathmatika* 1969, *no.* 5 (84), 42-48. (J. Albrycht) 40 #4571

An application of Galerkin's method to an equation of evolution with lagging argument. (Russian. French summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 164-170. (Á. Elbert) 40 #504

The approximate solution of stochastic differential equations with retarded argument. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 145-149. (J. Carkovs) 42 #5352

Zamansky, Amnon. See Jakimovski, Amnon.

Zamansky, Marc

* Introduction à l'algèbre et l'analyse modernes. Deuxième édition, entièrement refondue. *Dunod, Paris*, 1963. xvi + 435 *pp.* (K. L. Chung) 30 #2309

* Introduzione all'algebra e all'analisi moderna. Traduzione dal francese di Luigi Muracchini. Collana di Algebra, No. 4. *Giangiacomo Feltrinelli Editore, Milan*, 1966. 522 *pp.* (Editors) 35 #5267

* Introduction à l'algèbre et l'analyse modernes. Troisième édition. Collection Universitaire de Mathématiques, No. 1. *Dunod, Paris*, 1967. xviii + 435 *pp.* (George Bachman) 34 #7310

* Linear algebra and analysis. Translated from the French. *D. Van Nostrand Co. Ltd., London-Princeton, N.J.-Melbourne*, 1969. xii + 466 *pp.* (Editors) 40 #5367

Zambahidze, L. G.

A generalization of the inductive dimensions. (Russian. Georgian and English summaries) *Sakharth. SSR Mecn. Akad. Moambe* 53 (1969), 525-528. (S. Mardešić) 41 #6186

Certain properties of spaces with bicompact complements of finite order. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 263-266. (W. W. Comfort) 41 #7633

Zambelli, Vittoria

Il sottogruppo di Hughes e la serie centrale ascendente. *Boll. Un. Mat. Ital.* (3) 19 (1964), 478-489. (G. Zappa) 31 #255

Gli elementi di periodo infinito di un gruppo e le serie centrali. (English summary) *Boll. Un. Mat. Ital.* (3) 21 (1966), 19-24. (G. Zappa) 33 #4149

Operatori di tipo centrale su un reticolo completo. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 101 (1967), 439-449. (S. Rudeanu) 37 #3969

I q-reticoli e le chiusure di operatori di tipo centrale su un reticolo completo. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 103 (1968/69), 869-884. (S. Rudeanu) 41 #114

Problemi di rappresentazione mediante unione ed intersezione per gli elementi di un q-reticolo. (English summary) *Ist. Lombardo Accad. Sci. Lett. Rend. A* 104 (1970), 115-128. (J. Diestel) 43 #1896

Zambickiĭ, D. K.

Concerning a certain extremal problem on a graph. (Russian) *Applied Mathematics and Programming (Russian), pp.* 18-27. *Akad. Nauk Moldav. SSR, Kishinev*, 1968. (I. Cederbaum) 40 #1202

A certain problem on a graph. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 52-59. (J. Bosák) 41 #1578

(with Soltan, P. S.) A certain extremal problem on a tree. (Russian) *Mathematical Methods of Solution of Economic Problems (Suppl. to Èkonom. i Mat. Metody, Collection No. 1) (Russian), pp.* 102-107. *Izdat. "Nauka", Moscow*, 1969. (B. Zelinka) 44 #6544

(with Soltan, P. S.) Finding the class of l-connectivity of a graph. (Russian) *Prikl. Mat. i Programmirovanie Vyp.* 1 (1969), 61-67. (J. Morávek) 43 #4571

Zambickiĭ, M. K.

(with Gohberg, I. C.) Normally solvable operators in spaces with two norms. (Russian) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 80-84. (S. Rolewicz) 36 #3143

(with Gohberg, I. C.) On the theory of linear operators in spaces with two norms. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 1, 11-23. (A. Wiweger) 33 #4676

Discrete Wiener-Hopf equations in the p-normed algebras $l_p (0 < p < 1)$. (Russian) *Mat. Issled.* 3 (1968), *vyp.* 3 (9), 150-158. (Şt. I. Gheorghiţă) 41 #848

Zambotti, G.

(with Campagnoli, G.) On the unity operator for coherent states. (Italian and Russian summaries) *Nuovo Cimento A* (10) 57 (1968), 468-474. (K. Kumar) 38 #1889

Zame, Alan

The distribution of sequences modulo 1. *Canad. J. Math.* 19 (1967), 697-709. (F. Supnick) 36 #115

Note on a paper by M. F. Tinsley. *Duke Math. J.* 34 (1967), 231. (B. J. Birch) 35 #242

On the measure of well-distributed sequences. *Proc. Amer. Math. Soc.* 18 (1967), 575-579. (G. M. Petersen) 35 #4172

Almost convergence and well-distributed sequences. *Canad. J. Math.* 20 (1968), 1211-1214. (G. M. Petersen) 37 #6639

On the equivalence of two modes of distribution of a sequence. *Monatsh. Math.* 72 (1968), 157-167. (G. M. Petersen) 37 #4456

(with Petersen, G. M.) Summability properties for the distribution of sequences. *Monatsh. Math.* 73 (1969), 147-158. (W. Beekmann) 39 #4541 (with Dickman, R. F., Jr.) Functionally compact spaces. *Pacific J. Math.* 31 (1969), 303-311. (R. M. Stephenson, Jr.) 41 #4489

A note on Wallman spaces. *Proc. Amer. Math. Soc.* 22 (1969), 141-144. (Eugene F. Steiner) 39 #4808

Orthogonal sets of vectors over Z_m. *J. Combinatorial Theory* 9 (1970), 136-143. (Burton W. Jones) 41 #5383

Zame, William R.

A characterization of hereditarily indecomposable continua. *Proc. Amer. Math. Soc.* 17 (1966), 709-710. (R. H. Rosen) 33 #3274

Homomorphisms of rings of germs of analytic functions. *Proc. Amer. Math. Soc.* 33 (1972), 410-414. (J. J. Hirschfelder) 44 #6995

Zames, George

Nonlinear time varying feedback systems--conditions for L_∞-boundedness derived using conic operators on exponentially weighted spaces. *Proc. Third Annual Allerton Conf. on Circuit and System Theory, pp.* 460-471. *Univ. Illinois, Urbana, Ill.,* 1965. (Author's summary) 39 #6684

(with Falb, P. L.) On the stability of systems with monotone and odd monotone nonlinearities. *Mathematical Theory of Control (Proc. Conf., Los Angeles, Calif.,* 1967*), pp.* 414-426. *Academic Press, New York,* 1967. (Leonard Weiss) 41 #3149

(with Freedman, M.) Logarithmic variation criteria for the stability of systems with time-varying games. 1968 *(Ninth) Joint Automatic Control Conf. (Univ. of Michigan, Ann Arbor, Mich.,* 1968*), pp.* 769-786. *Inst. Electr. Electron. Engineers, New York,* 1968. (Authors' summary) 40 #2382

Stability of systems with sector nonlinearities: A comparison of various inequalities. *IEEE Trans. Automatic Control* AC-13 (1968), 709-711. (Author's summary) 43 #1690

(with Falb, P. L.) Stability conditions for systems with monotone and slope-restricted nonlinearities. *SIAM J. Control* 6 (1968), 89-108. (B. Porter) 37 #5044

(with Freedman, M.) Logarithmic variation criteria for the stability of systems with time-varying gains. *SIAM J. Control* 6 (1968), 487-507. (B. J. Leon) 40 #1161

Zamfiresco, Tudor. See Zamfirescu, Tudor I.

Zamfirescu, I.

La distribution d'équilibre sur un ellipsoïde à *n* dimensions. *Rev. Roumaine Math. Pures Appl.* 9 (1964), 877-880. (E. C. Schlesinger) 31 #5986

Zamfirescu, Ion

An extension of Gauss' method for the calculation of improper integrals. (Romanian. Russian and French summaries) *Acad. R.P. Romîne Stud. Cerc. Mat.* 14 (1963), 615-631. (A. H. Stroud) 32 #1906

Zamfirescu, Tudor I.

Note sur les hyperplans isogonaux d'un simplexe. *Bull. Math. Soc. Sci. Math. Phys. R.P. Roumaine* 8(56) (1964), 317-320. (L. M. Kelly) 34 #4968

Geometric constructions with ruler, compass, and trisector. (Romanian) *Stud. Cerc. Mat.* 15 (1964), 405-411. (H. W. Guggenheimer) 31 #6149

On compositions of monotone convex functions. (Romanian) *Stud. Cerc. Mat.* 16 (1964), 1221-1230. (Editors) 32 #4227

Simplicial convexity in vector spaces. *Bull. Math. Soc. Sci. Math. Phys. R.P. Roumaine* 9(57) (1965), 137-149. (G. C. Shephard) 35 #872

Caractérisations des hypersurfaces convexes. *Bull. Math. Soc. Sci. Math. R.S. Roumanie* 9(57) (1965), 247-252 (1966). (H. W. Guggenheimer) 36 #2053

On geodesics of a particular nondifferentiable variety. (Romanian) *Gaz. Mat. Ser. A* 70 (1965), 96-99. (H. W. Guggenheimer) 32 #6336

Constructibility with ruler, compass and trisector. (Romanian) *Gaz. Mat. Ser. A* 70 (1965), 204-213. (H. W. Guggenheimer) 33 #3164

Sur quelques théorèmes de G. Szekeres et S. Marcus concernant les fonctions monotones et convexes. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 81-90. (A. M. Bruckner) 31 #5949

On the fundamental lemmas of the calculus of variations. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 505-510. (S. Cinquini) 33 #3157

(with Albu, Toma) Un probème variationnel dans l'espace de Riemann. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1323-1330. (J. P. Wilson) 34 #1963

Sur les fonctions du type *K*. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1575-1582. (A. M. Bruckner) 33 #7479

On the superposition of two increasing functions, one convex and the other concave. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 111-118. (Editors) 33 #7480

On the fundamental lemmas of the calculus of variations. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 287-293. (Editors) 35 #841

Familles de corps associés à un corps convexe. *Bull. Math. Soc. Sci. Math. R.S. Roumanie* 10(58) (1966), 397-412 (1967). (P. Vincensini) 37 #6835

Réductibilité et séries linéaires de corps convexes. *Enseig ment Math.* (2) 12 (1966), 57-67. (G. Ewald) 35 #2205

Two characterizations of simplexes. (Romanian) *Gaz. Mat. Se A* 71 (1966), 422-424. (John W. Green) 38 #1612

(with Besicovitch, A. S.) On pencils of diameters in convex bodies. *Rev. Roumaine Math. Pures Appl.* 11 (1966), 637-639. (P. Hammer) 34 #674

Sur les corps associés à un corps convexe. *Rev. Roumaine Ma Pures Appl.* 11 (1966), 727-735. (P. C. Hammer) 34 #1924

Sur les séries linéaires de corps convexes à frontières non différentiables et applications à la réductibilité. *Rev. Roumain Math. Pures Appl.* 11 (1966), 1015-1022. (G. Ewald) 36 #3232

Théorème dual concernant les familles continues de courbes. *Acad. Roy. Belg. Bull. Cl. Sci.* (5) 53 (1967), 1385-1391. (G. Ewald) 39 #7505

Sur les familles continues de courbes. I, II. (Italian summa *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 42 (1967), 771-774; *ibid.* (8) 43 (1967), 13-17. (J. G. Ceder) 38 #3843

(with Vincensini, Paul) Sur une fibration de l'espace des corps convexes. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A510-A511. (L. A. Santaló) 38 #608

Sur la réductibilité des corps convexes. *Math. Z.* 95 (1967) 20-33. (P. C. Hammer) 34 #4985

On l-simplicial convexity in vector spaces. *Pacific J. Math.* 22 (1967), 565-573. (G. C. Shephard) 36 #2054

Reducibility of convex bodies. *Proc. London Math. Soc.* (3) 17 (1967), 653-668. (L. A. Santaló) 36 #3233

Sur quelques questions de continuité liées à la réductibilit des corps convexes. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 989-998. (P. Vincensini) 37 #6836

Conditions nécessaires et suffisantes pour la réductibilité des voisinages des corps convexes. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1523-1527. (G. Ewald) 37 #6837

Sur les familles continues de courbes. III. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 639-642. (J. G. Ceder) 40 #2034a

Sur les familles continues de courbes. IV. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 44 (1968), 753-758. (J. G. Ceder) 40 #2034b

On planar continuous families of curves. *Canad. J. Math.* 21 (1969), 513-530. (H. E. Debrunner) 39 #7506

Les courbes fermées doubles sans points triples associées à une famille continue. (English summary) *Israel J. Math.* 7 (1969), 69-89. (J. G. Ceder) 40 #2035

Sur les points multiples d'une famille continue de courbes. *Rend. Circ. Mat. Palermo* (2) 18 (1969), 103-112. (A. Császár) 43 #6892

The simplicial convexity of convex surfaces. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 889-897. (R. Bantegnie) 41 #969

On the line-connectivity of line-graphs. *Math. Ann.* 187 (1970), 305-309. (G. Chartrand) 44 #6541

Zamjatin, V. N.

(with Kadeč, M. Ĭ.) Čebyšev centers in the space *C*[*a*,*b*]. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 7 (196 20-26. (M. L. Juncosa) 42 #3480

Zamora, Ernesto A. Lacomba. See Lacomba Zamora, Ernesto A.

Zamorski, J.

(with Smoluk, A.) On conditions for extremal generalized spiral functions, involving their coefficients. (Polish. Russian and English summaries) *Prace Mat.* 7 (1962), 119-125. (Z. Lewandowski) 32 #4263

Zamorzaev, A. M.

Symmetry groups and groups of the various kinds of antisymmet *Kristallografija* 8 (1963), 307-312 *(Russian); translated as Soviet Physics Cryst.* 8 (1963), 241-245. 31 #1081

(with Palistrant, A. F.) Groups of symmetry and of different types of antisymmetry of borders and ribbons. *Kristallografija* 9 (1964), 155-161 *(Russian); translated as Soviet Physics Cryst.* 9 (1964), 123-128. (Authors' summary) 31 #6637

(with Palistrant, A. F.) The number of generalized Shubnikov space groups. *Kristallografija* 9 (1964), 778-782 *(Russian); translated as Soviet Physics Cryst.* 9 (1965), 660-664. (G. F. Koster) 33 #1371

On non-normal regular partitions of Euclidean space. (Russian *Dokl. Akad. Nauk SSSR* 161 (1965), 30-32. (J. W. S. Cassels) 30 #5216

(with Baltag, I. A.) On the theory of the Fedorov groups and regular decompositions on a pseudo-Euclidean plane. (Russian) *Kišinev. Gos. Univ. Učen. Zap.* 82 (1965), 82-96. (K. Strambach) 34 #3427

(with Galjarskiĭ, E. I.) A complete derivation of crystallographic stem groups of symmetry and different types of antisymmetr *Kristallografija* 10 (1965), 147-154 *(Russian); translated as Sovie Physics Cryst.* 10 (1965), 109-115. (G. F. Koster) 32 #962

Space groups in the symmetry of similitude. *Dokl. Akad. Nauk SSSR* 167 (1966), 334-337 *(Russian); translated as Soviet Physics Dokl.* 11 (1966), 192-194. (J. J. Burckhardt) 35 #4310

Derivation of the three-dimensional similarity symmetry groups. *Dokl. Akad. Nauk SSSR* 179 (1968), 836-839 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 284-287. (J. J. Burckhardt) 38 #3359 amota, A. V.

(with Mihaĭlov, L. G.; Bil′man, B. M.) Multidimensional integral equations with difference kernels in a half strip. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 710-713. (C. Corduneanu) 40 #7749

amov, N. K.

(with Šaronov, V. I.) A certain algorithm for finding a full amplification of sequences in propositional calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 67-70. (G. Minc (RŽMat 1969 #2 A119)) 44 #1573

(with Šaronov, V. I.) A certain algorithm of search for an inference in a cellular calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 128 (1968), *kn.* 2, 71-75. (G. Minc (RŽMat 1969 #2 A118)) 44 #1574

(with Šaronov, V. I.) A certain class of strategies used in theorem proving by the resolution method. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 16 (1969), 54-64. (L. W. Szczerba) 42 #2715

(with Šaronov, V. I.) Amplifications of formulae of predicate calculus. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 130 (1970), *kn.* 3, 54-59. (J. Waszkiewicz) 44 #2573

ň, S.

A characterization of descriptive methods in linear spaces. (Slovak. Russian and German summaries) *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 18 (1967), 63-72 (1968). (V. Volenec) 41 #6043

ndarowska, Wiesława

On certain connections between consequence, inconsistency and completeness. (Polish. Russian and English summaries) *Studia Logica* 18 (1966), 165-178. 33 #5451

ndbergen, Pieter Jacobus

(with Baurdoux, H. I.) An application of the N-strip method of integral relations for analyzing the flow around a circular cone. *J. Engrg. Math.* 3 (1969), 189-207. (J. Legras) 40 #2240

nder, Hans Joachim

Zur Zustandsreduktion ungetakteter (asynchroner) Folgeschaltungen. I. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 257-277. (S. Huzino) 38 #5524

Zur Zustandsreduktion ungetakteter (asynchroner) Folgeschaltungen. II. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 4 (1968), 285-300. (S. Huzino) 40 #2457

Ein Verfahren zur Optimierung von Kombinationsschaltungen mit mehreren Ausgängen bei unvollständig gegebenen Arbeitsbedingungen. (English and Russian summaries) *Elektron. Informationsverarbeit. Kybernetik* 6 (1970), 177-201. (B. Reusch) 42 #5732

nder, Helmut

Holomorphe Faserräume. *Schr. Math. Inst. Univ. Münster No.* 38 (1968), vi + 41 *pp.* (W. Barth) 37 #6485

nder, Vernon

Integral representation of infinitely linear bounded continuous operators. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 89-92. (S. Newberger) 42 #3596

Products of finitely additive set functions from Orlicz spaces. *Pacific J. Math.* 35 (1970), 799-804. (J. J. Uhl, Jr.) 43 #901

nder, W.

(See Collatz, L.; Nicolovius, R.; Törnig, W., 40 #8315)

* (with Hahn, W.; Mammitzsch, V.; Morgenstern, D.; Pöschl, K.) Mathematische Hilfsmittel des Ingenieurs. Teil IV. Herausgegeben von R. Sauer und I. Szabó. Unter Mitwirkung von H. Neuber, W. Nürnberg, K. Pöschl, E. Truckenbrodt und W. Zander. Die Grundlehren der mathematischen Wissenschaften, Band 142. *Springer-Verlag, Berlin-New York,* 1970. xviii + 596 *pp.* (E. Kreyszig) 42 #5480

ndron, O.

(with Weder, R.) A class of covariant commutators for fields of integer spin J and $m \neq 0$, and for $m = 0$ without the necessity of introducing an indefinite metric. (Italian and Russian summaries) *Nuovo Cimento A* (11) 2 (1971), 455-466. (G. R. Allcock) 43 #5843

nella, Angelo

Programma di calcolo per l'elaborazione dei dati ottenuti secondo disegni sperimentali con fattori a due livelli. *Statistica (Bologna)* 23 (1963), 385-404. *(1 fold-out)* 32 #1838

* Sulla distribuzione della variabile t non centrale a piu' dimensioni in relazione ad un problema di decisione multipla. (French, English and German summaries) Pubblicazioni dell'Università Cattolica del S. Cuore. Saggi e Ricerche, serie terza. Scienze Statistiche, 1. *Società Editrice Vita e Pensiero, Milan,* 1968. xiii + 195 *pp.* (H. L. Seal) 37 #3685

* Sulla funzione di potenza del test t multiplo per il confronto di più trattamenti con uno di controllo. Pubblicazioni dell'Università Cattolica del S. Cuore. Saggi e Ricerche, Serie Terza: Scienze Statistiche, 4. *Editrice Vita e Pensiero, Milan,* 1971. xi + 212 *pp.* (M. Iosifescu) 42 #6984

Zanello, D. P.

(with Picasso, L. E.; Radicati, L. A.; Sakurai, J. J.) ω-ρ mixing and charge-dependent effects in the SU_3 scheme. (Italian summary) *Nuovo Cimento* (10) 37 (1965), 187-198. 32 #8826

(with Remiddi, Ettore) Evidence for a weak R invariance for nonleptonic hyperon decays. *Phys. Rev.* (2) 137 (1965), B634-B635. (Authors' summary) 32 #2080

(with Radicati, L. A.; Picasso, L. E.; Sakurai, J. J.) Electromagnetic mass differences. *Phys. Rev. Lett.* 14 (1965), 160-163. (S. L. Glashow) 30 #2854

Zanghirati, Luisa

Sull'integrazione frazionaria anisotropa. (English summary) *Ann. Univ. Ferrara Sez. VII (N.S.)* 15 (1970), 145-152 (1971). (R. G. Buschman) 44 #4454

Zangwill, Willard I.

Minimizing a function without calculating derivatives. *Comput. J.* 10 (1967), 293-296. (J. Stuelpnagel) 38 #2930

Non-linear programming via penalty functions. *Management Sci.* 13 (1967), 344-358. (Author's summary) 40 #5265

The piecewise concave function. *Management Sci.* 13 (1967), 900-912. (A. F. Veinott, Jr.) 39 #3825

An algorithm for the Chebyshev problem—with an application to concave programming. *Management Sci.* 14 (1967), 58-78. (Author's summary) 39 #3824

The convex simplex method. *Management Sci.* 14 (1967), 221-238. (S. Vajda (Zbl 153, 490)) 42 #4196

A decomposable nonlinear programming approach. *Operations Res.* 15 (1967), 1068-1087. (R. W. Cottle) 37 #5029

Minimum concave cost flows in certain networks. *Management Sci.* 14 (1968), 429-450. (Author's summary) 39 #2537

Zanovello, Renato

Sul calcolo numerico di un integrale che interessa l'idraulica. (English summary) *Calcolo* 4 (1967), 615-624. (Author's summary) 43 #1431

Sul calcolo numerico della soluzione di un problema ai limiti per l'equazione differenziale $y' = f(x,y,\lambda)$. (English summary) *Calcolo* 4 (1967), 605-613. (A. Pasquali) 43 #8246

Soluzione numerica del problema di Dirichlet in una corona circolare, con dati misti al contorno. *Atti Sem. Mat. Fis. Univ. Modena* 19 (1970), *fasc.* 1, 188-210. (V. Thomée) 42 #8722

van Zanten, A. J.

(with de Vries, E.) The Dirac matrix group and Fierz transformations. *Comm. Math. Phys.* 17 (1970), 322-342. (D. Lurié) 42 #5534

(with de Vries, E.) An application of the duality between representations and classes. *Physica* 49 (1970), 532-535. (K. Kumar) 44 #5389

(with de Vries, E.) On the number of roots of certain equations in finite simply reducible groups. *Physica* 49 (1970), 536-548. (K. Kumar) 44 #6220

Zapas, L. J.

(with Bernstein, B.; Kearsley, E. A.) Thermodynamics of perfect elastic fluids. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 103-113. (T. P. Andelić) 32 #3464

Zapletal, Josef

Distinguishing subsets of semi-groups and groups. *Arch. Math. (Brno)* 4 (1968), 241-251. (J. B. Kim) 41 #8557

Zaplītna, A. T.

(with Dalec′kiĭ, Ju. L.) Integrals over a space of trees connected with non-linear parabolic equations. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 5, 110-114. (A. Badrikian) 37 #1796

On an approximate method of a solution of nonlinear operator equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 1434-1437. (Author's summary) 33 #1571

Zaplitnaja, A. T. See Zaplītna, A. T.

Zaporožec, G. I.

An investigation of a homogeneous equation of the first order not solved with respect to the derivative. (Russian) *Differencial'nye Uravnenija* 1 (1965), 567-581. (A. D. Solomon) 33 #1528

Zappa, Anna

Minimo primo autovalore per una classe di operatori ellittici. (English summary) *Matematiche (Catania)* 23 (1968), 467-480. (J. Hersch) 40 #1718

Zappa, Guido

Recenti progressi della teoria dei gruppi finiti risolubili. *Confer. Sem. Mat. Univ. Bari No.* 73 (1962), 12 *pp.* (R. Kochendörffer) 31 #2333

Sugli spazi generali quasi di traslazione. *Matematiche (Catania)* 19 (1964), 127-143. (D. B. Scott) 30 #3399

Sui piani quasi di traslazione secondo Lingenberg. *Rend. Mat. e Appl.* (5) 23 (1964), 124-127. (D. B. Scott) 30 #1447

* Fondamenti di teoria dei gruppi. Vol. I. Consiglio Nazionale delle Ricerche Monografie Matematiche, 13. *Edizioni Cremonese, Rome,* 1965. xx + 291 *pp.* (J. J. Burckhardt) 33 #5703

* (with Permutti, Rodolfo) Gruppi, corpi, equazioni. Seconda edizione. *Giangiacomo Feltrinelli Editore, Milan,* 1965. 263 *pp. (sciolti errati).* (H. Schwerdtfeger) 34 #4078

Anelli di Lie e gruppi nilpotenti. *Atti del Settimo Congresso dell'unione Matematica Italiana (Genova,* 1963*), pp.* 278-287. *Edizioni Cremonese, Rome,* 1965. (B. H. Neumann) 34 #7660

Recenti risultati sul reticolo dei sottogruppi subnormali di un gruppo. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 2, *Ist. Naz. Alta Mat., pp.* 441-448. *Ediz. Cremonese, Rome,* 1965. (Graham Higman) 34 #7664

Sulle *S*-partizioni di Hall di un gruppo finito. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 38 (1965), 755-759. (O. H. Kegel) 33 #2720

Sulle *S*-partizioni di un gruppo finito. *Ann. Mat. Pura Appl.* (4) 74 (1966), 1-14. (G. E. Wall) 34 #5920

Sulle *S*-partizioni semistrette di Hall nei gruppi finiti metanilpotenti. *Matematiche (Catania)* 22 (1967), 375-382. (G. E. Wall) 37 #2862

(with Szép, Jenő) Sui gruppi trifattorizzabili. (French summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 45 (1968), 113-116. (G. Pic) 40 #7345

Risoluzione del problema 61 di Birkhoff 1967. *Period. Mat.* (4) 46 (1968), 395-398. (S. Rudeanu) 38 #5936

Partizioni ed *S*-partizioni dei gruppi finiti. *Symposia Mathematica (INDAM, Rome,* 1967/68*), Vol.* 1, *pp.* 85-94. *Academic Press, London,* 1969. (L. A. Rosati) 40 #5721

* Fondamenti di teoria dei gruppi. Vol. II. Consiglio Nazionale delle Ricerche Monografie Matematiche, 18. *Edizioni Cremonese, Rome,* 1970. xxi + 411 *pp.* (J. J. Burckhardt) 41 #3571

(with Szép, J.) Über dreifaktorisierbare Gruppen. I. *Acta Sci. Math. (Szedged)* 31 (1970), 173-178. (N. Ito) 41 #5483

Zaprjanov, Z. D.

(with Baĭnov, D. D.) Sufficient conditions for asymptotic stability of solutions of neutral type equations of arbitrary order. (Russian) *C. R. Acad. Bulgare Sci.* 23 (1970), 631-633. (J. M. Skowroński) 43 #663

Zapryanov, Z. See Zaprjanov, Z. D.

Zarankiewicz, K.

(See Bergman, S.; Duda, R.; Knaster, B.; Mycielski, Jan; Schinzel, A., 30 #4658 and 35 #10)

Zarantonello, Eduardo H.

* (with Birkhoff, G.) Струи, следы и каверны. (Russian) [Jets, wakes and cavities] *Izdat. "Mir", Moscow,* 1964. 466 *pp.* (Editors) 31 #1842

The closure of the numerical range contians the spectrum. *Bull. Amer. Math. Soc.* 70 (1964), 781-787. (G. J. Minty) 30 #3389

(with Grünbaum, F.) Cross-continuity vs. continuity. *Studia Math.* 27 (1966), 273-288. (A. Császár) 34 #3385

The closure of the numerical range contains the spectrum. *Pacific J. Math.* 22 (1967), 575-595. (D. G. de Figueiredo) 37 #4657

Differentioids. *Advances in Math.* 2 187-306, (1968). (W. J. Sweeney) 37 #3187

(with Grünbaum, F.) On the extension of uniformly continuous mappings. *Michigan Math. J.* 15 (1968), 65-74. (P. V. Reichelderfer) 36 #6554

Zardi, F.

(with Minelli, T. A.) Mittag-Leffler expansion of the *S*-matrix integral representation. *Lett. Nuovo Cimento* 3 (1970), 357-372. (Authors' summary) 43 #8306

Zareckiĭ, D. F.

(with Migdal, A. B.; Lušnikov, A. A.) Theory of dipole photoabsorption of nuclei. *Nuclear Phys.* 66 (1965), 193-208. (M. Dânos) 31 #3115

Zareckiĭ, K. A.

Divisibility of elements in a semigroup of binary relations. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No.* 1 *(Russian), pp.* 6-9. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. 34 #1434

The semigroup of completely effective binary relations. (Russian) *Theory of Semigroups and Appl. I (Russian), pp.* 238-250. *Izdat. Saratov. Univ., Saratov,* 1965. (K. A. Ross) 33 #1383

On the decomposition of a disconnected graph into a Cartesian product. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 2, 89. 34 #2496

Constructing a tree on the basis of a set of distances between the hanging vertices. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 6 (126), 90-92. (H. Sachs) 33 #7274

On Hamiltonian cycles and Hamiltonian chains in the Cartesian product of two graphs. (Russian. English summary) *Kibernetika (Kiev)* 1966, *no.* 5, 4-11. (J. Bosák) 35 #2784

An abstract characterization of the bisemigroup of binary operations. (Russian) *Mat. Zametki* 1 (1967), 525-530. (G. Szász) 35 #2988

The abstract characteristic of a class of semigroups of partially reflexive binary relations. (Russian) *Sibirsk, Mat. Z.* 8 (1967), 1299-1306. (B. M. Schein (Šaĭn)) 36 #1568

Husimi trees. (Russian) *Mat. Zametki* 9 (1971), 253-262. (W. Dörfler) 43 #3160

Zareckiĭ, M. V.

Certain functional equations connected with the Cauchy equation. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 487-491. (G. J. O. Jameson) 35 #4627

Lagrange's differential equation. (Russian) *Differencial'ny Uravnenija* 4 (1968), 1065-1070. (J. F. Heyda) 38 #1304

The reducibility of certain linear differential systems. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1114-1115, 1142. (C. E. Langenhop) 44 #5538

Zaregradski, I. P. See Caregradskiĭ, I. P.

Zarelua, A. V.

A universal bicompactum of given weight and dimension. (Russian) *Dokl. Akad. Nauk SSSR* 154 (1964), 1015-1018. (S. Mardešić) 29 #1623

The continuation of mappings to extensions with certain special properties. (Russian) *Sibirsk, Mat. Ž.* 5 (1964), 532-548. (A. B. Paalman-de Miranda) 30 #2459

On finite-to-one mappings. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 775-778. (E. Halfar) 35 #3640

The method of the theory of rings of functions in the constr tion of bicompact extensions. (Russian. English summary) *Contributions to Extension Theory of Topological Structures (Proc. Sympos., Berlin,* 1967*), pp.* 249-256. *Deutsch. Verlag Wissensch., Berlin,* 1969. (Z. Semadeni) 40 #2006

On finite groups of transformations. *Proc. Internat. Smypos on Topology and its Applications (Herceg-Novi,* 1968*), pp.* 334-339 *Savez Društava Mat. Fiz. i Astronom., Belgrade,* 1969. (C. N. Lee 42 #8484

Finite-to-one mappings of topological spaces and of cohomolo manifolds. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 64-92. (D. W. Henderson) 38 #6584

Zaremba, Stanislas Christian

Minimum-autocorrelation sequences. (Polish and Russian summaries) *Zastos. Mat.* 7 (1964), 195-203. (N. Zierler) 32 #5434

Note on the Wilcoxon-Mann-Whitney statistic. *Ann. Math. Statist.* 36 (1965), 1058-1060. (C. G. Khatri) 31 #841

Kurtosis and determinate components in linear processes. (French summary) *Rev. Inst. Internat. Statist.* 33 (1965), 378-41 (C. H. Kraft) 33 #5036

Good lattice points, discrepancy, and numerical integration. *Ann. Mat. Pura Appl.* (4) 73 (1966), 293-317. (S. Haber) 36 #1107

Quartic statistics in spectral analysis. *Spectral Analysis Time Series (Proc. Advanced Sem., Madison, Wis.,* 1966*), pp.* 47-79. *John Wiley, New York,* 1967. (S. Csibi) 36 #1070

(with Schoenberg, I. J.) On Cauchy's lemma concerning convex polygons. *Canad. J. Math.* 19 (1967), 1062-1071. (D. W. Walkup) 35 #7199

Some applications of multidimensional integration by parts. *Ann. Polon. Math.* 21 (1968), 85-96. (D. F. Mayers) 38 #4034

Good lattice points in the sense of Hlawka and Monte-Carlo integration. *Monatsh. Math.* 72 (1968), 264-269. (J. Spanier) 37 #3739

The mathematical basis of Monte Carlo and quasi-Monte Carlo methods. *SIAM Rev.* 10 (1968), 303-314. (Editors) 38 #1810

(with Mann, H. B.) On multipliers of difference sets. *Illinois J. Math.* 13 (1969), 378-382. (R. A. Rankin) 39 #4030

(with Halton, J. H.) The extreme and L^2 discrepancies of some plane sets. *Monatsh. Math.* 73 (1969), 316-328. (O. P. Stackelberg) 40 #5550

A quasi-Monte Carlo method for computing double and other multiple integrals. *Aequationes Math.* 4 (1970), 11-22. (D. C. Handscomb) 41 #7818

La discrépance isotrope et l'intégration numérique. *Ann. Mat Pura Appl.* (4) 87 (1970), 125-135. (D. B. Hunter) 43 #7067

A remarkable lattice generated by Fibonacci numbers. *Fibonacci Quart.* 8 (1970), *no.* 2, 185-198. (A. M. Cohen) 41 #5320

Zaremba-Szczepkowicz, D.

On orthogonal mappings and their dimensions. *Fund. Math.* 57 (1965), 205-213. (W. Haken) 32 #8318

Zaretski, D. F. See Zareckiĭ, D. F.

Zaretskii, D. F. See Zareckiĭ, D. F.

Zaretskiĭ, K. A. See Zareckiĭ, K. A.

Zaretsky, D. F. See Zareckiĭ, D. F.

Zaretti, Anna Golzi

Equivalenza di due definizioni di successioni equidistribuite nei domini *P*-adici. *Atti Sem. Mat. Fis. Univ. Modena* 13 (1964), 111-118. (C. G. Lekkerkerker) 30 #3064

Sopra un teorema di B. Eckmann riguardante successioni uniformemente distribuite. *Ist. Lombardo Accad. Sci. Lett. Rend. A.* 100 (1966), 99-108. (M. Cugiani) 35 #2835

Approssimazioni razionali della funzione esponenziale. *Atti Sem. Mat. Fis. Univ. Modena* 18 (1969), *fasc.* 1, 221-225. (R. P. Boas, Jr.) 40 #6736

retzki, P. M.

(with McLaughlin, H. W.) Simultaneous approximation and interpolation with norm preservation. *J. Approximation Theory* 4 (1971), 54-58. (P. D. Morris) 43 #2409

rgarjan, S. S.

Torsion of a circular cylinder having a non-coaxial polyhedral cavity. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 38 (1964), 217-224. (M. Mişicu) 29 #4280

rghamee, Mehdi S.

(with Mehri, B.) A note on boundedness of solutions of certain second-order differential equations. *J. Math. Anal. Appl.* 31 (1970), 504-508. (B. S. Lalli) 42 #595

(with Mehri, B.) On the behaviour of solutions of certain third order differential equations. *J. London Math. Soc.* (2) 4 (1971), 271-276. (J. O. C. Ezeilo) 44 #7037

Differential of variational forms. *SIAM J. Appl. Math.* 20 (1971), 406-412. (U. D'Ambrosio) 44 #4606

ič, Budimir M.

Sur une équation fonctionnelle cyclique linéaire at homogène. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 274-301 (1969), 159-167. (I. M. Sheffer) 41 #7326

Sur une équation fonctionnelle cyclique linéaire et non homogène. *Mat. Vesnik* 7(22) (1970), 227-234. (I. M. Sheffer) 41 #7325

Équation fonctionnelle cyclique linéaire et non homogène. *Publ. Inst. Math. (Beograd) (N.S.)* 10(24) (1970), 87-101. (Pl. Kannappan) 43 #2377

ic'ka, Z. V.

Approximation of functions of several variables by polynomials of S. N. Bernšteĭn. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 1114-1117. (G. Biriuk) 33 #6222

Approximation of functions by linear positive operators in the L_p-metric. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1967, 14-17. (From the author's summary) 35 #2053

The representation of certain functions of two variables in the form of a limit of a sequence of operators. (Ukrainian. Russian summary) *Vīsnik L'vīv. Derž. Unīv. Ser. Meh.-Mat.* 1967, *vyp.* 3, 27-30. (G. J. O. Jameson) 37 #4472

rickaja, Z. V.

Approximation of functions of several variables by polynomials of S. N. Bernštein. (Russian) *Teor. Funciĭ Funkcional. Anal. i Priložen. Vyp.* 2 (1966), 21-34. (G. G. Lorentz) 34 #3168

iĭ, Ju. I.

(with Jurčenko, O. S.) The Dirichlet problem for equations of von Kármán type. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1713-1719. (H. Triebel) 38 #3589; erratum, 39, p. 1594

(with Jurčenko, O. S.) The solvability of a certain nonlinear boundary value problem. (Russian) *Ukrain. Mat. Ž.* 20 (1968), 248-252. (J. L. Nowinski) 37 #3806; erratum, 39, p. 1593

ing, Wilson M.

* An introduction to analysis. *The Macmillan Co., New York; Collier-Macmillan Ltd., London,* 1967. xi + 364 *pp.* (Editors) 34 #7736

iski, Oscar

On the superabundance of the complete linear systems $|nD|$ (n large) for an arbitrary divisor D on an algebraic surface. *Univ. e Politec. Torino Rend. Sem. Mat.* 20 (1960/61), 157-173. (Y. Nakai) 29 #3471

Equisingular points on algebraic varieties. *Seminari* 1962/63 *Anal. Alg. Geom. e Topol., Vol.* 1, *Ist. Naz. Alta Mat., pp.* 164-177. *Ediz. Cremonese, Rome,* 1965. (H. Hironaka) 33 #7336

Studies in equisingularity. I. Equivalent singularities of plane algebroid curves. *Amer. J. Math.* 87 (1965), 507-536. (Y. Nakai) 31 #2243

Studies in equisingularity. II. Equisingularity in codimension 1 (And characteritsic zero). *Amer. J. Math.* 87 (1965), 972-1006. (Y. Nakai) 33 #125

Characterization of plane algebroid curves whose module of differentials has maximum torsion. *Proc. Nat. Acad. Sci. U.S.A.* 56 (1966), 781-786. (D. Kirby) 34 #2576

Equisingular points on algebraic varieties. *Some Recent Advances in the Basic Sciences, Vol.* 1 *(Proc. Annual Sci. Conf., Belfer Grad. School Sci., Yeshiva Univ., New York,* 1962-1964*), pp.* 163-175. *Belfer Graduate School of Science, Yeshiva Univ., New York,* 1966. (Editors) 34 #7507

Exceptional singularities of an algebroid surface and their reduction. (Italian summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 43 (1967), 135-146. (Y. Nakai) 37 #5222

Studies in equisingularity. III. Saturation of local rings and equisingularity. *Amer. J. Math.* 90 (1968), 961-1023. (Joseph lipman) 38 #5775

* An introduction to the theory of algebraic surfaces. Notes by James Cohn, Harvard University, 1957-58. Lecture Notes in Mathematics, No. 83. *Springer-Verlag, Berlin-New York,* 1969. iv + 100 *pp.* (A. Mattuck) 41 #8418

Contributions to the problem of equisingularity. *Questions on Algebraic Varieties (C.I.M.E., III Ciclo, Varenna,* 1969*), pp.* 261-343. *Edizioni Cremonese, Rome,* 1970. (Joseph Lipman) 43 #1987

General theory of saturation and of saturated local rings. I. Saturation of complete local domains of dimension one having arbitrary coefficient fields (of characteristic zero). *Amer. J. Math.* 93 (1971), 573-648. (Joseph Lipman) 44 #206

Some open questions in the theory of singularities. *Bull. Amer. Math. Soc.* 77 (1971), 481-491. (J. A. Morrow) 43 #3266

Żarnecka-Biały, Ewa

Certain non-standard concept of consequence. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 1 (1965), 103-132. 37 #1232

A note on deduction theorem for Gödel's propositional calculus *G*4. (Polish and Russian summaries) *Studia Logica* 23 (1968), 35-41. (D. H. Potts) 43 #6049

Undefinability of possibility and necessity functors in some poor purely implicational logical calculi. (Polish. English summary) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 4 (1969), 47-52. 41 #43

The deduction theorem for Gödel's propositional calculus *G*5. (Polish summary) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 5 (1970), 77-78. (R. I. Goldblatt) 44 #1545

Zarnke, C. R.

(with Stanton, R. G.; Williams, H. C.) A packing problem. *Canad. Math. Bull.* 10 (1967), 287-297. (F. Supnick) 35 #7208

(with Williams, H. C.) A report on prime numbers of the forms $M = (6a + 1)2^{2m - 1} - 1$ and $M' = (6a - 1)2^{2m} - 1$. *Math. Comp.* 22 (1968), 420-422. (H. Gupta) 37 #2680

Zaromp, Avigdor

(with Gerstenhaber, Murray) On the Galois theory of purely inseparable field extensions. *Bull. Amer. Math. Soc.* 76 (1970), 1011-1014. (E. Inaba) 42 #1806

Zarosskiĭ, R. I.

On the problem of necessary and sufficient conditions for an absolute minimum. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 26-29. (L. W. Neustadt) 32 #9101

The differentiability of the solution of the basic functional equation of dynamic programming. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 157-160. (H. Halkin) 32 #3904

Stability of solution of a functional equation of dynamic programming. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 199-204. (R. F. Datko) 35 #2671

Žarov, M. I.

(with Baĭgarin, O. A.; Režnev, V. G.) The solution of the Helmholtz equation with Im $k \geq 0$ in the exterior of a circle. (Russian) *Collection of Sci. Works of Graduates, No. VI: Mathematics, Mechanics, Physics (Russian), pp.* 10-12. *Univ. Družby Narodov, Moscow,* 1969. (R. N. Goss) 44 #4391

The problem of finding a periodic solution of a certain class of non-linear differential equations. (Russian) *Collection of Sci. Works of Graduates, No. VI: Mathematics, Mechanics, Physics (Russian), pp.* 17-27. *Univ. Družby Narodov, Moscow,* 1969. (H. I. Freedman) 44 #7057

The question of finding a periodic solution of a certain class of nonlinear differential equations that is connected with the method of harmonic balance. (Russian) *Collection of Sci. Works of Graduates, No. VI: Mathematics, Mechanics, Physics (Russian), pp.* 28-31. *Univ. Družby Narodov, Moscow,* 1969. (H. I. Freedman) 44 #7058

Zarovnyĭ, V. P.

On the group of automatic one-to-one mappings. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1266-1269. (R. M. Baer) 30 #3024

On the representation of machines by semigroup-theoretical formations (by m-semigroups). (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 716-731. (G. Grätzer) 29 #3328

Automata substitutions and wreath products of groups. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 562-565. (G. Grätzer) 31 #1155

Automaton substitutions and interlacements of groups. (Russian) *Kibernetika (Kiev)* 1965, *no.* 1, 29-36. (G. Grätzer) 34 #2372

Automaton representations and functional semimatrices in a symmetrical alphabet semigroup. *Dokl. Akad. Nauk SSSR* 182 (1968), 779-782 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 988-991. (G. J. Lallement) 40 #1208

Automaton representations and matrices in a symmetrical semigroup of an abelian group. *Dokl. Akad. Nauk SSSR* 182 (1968), 1018-1021 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 992-995. (G. J. Lallement) 40 #1209

On selfadaptive decoding automata. *Dokl. Akad. Nauk SSSR* 187 (1969), 525-527 *(Russian); translated as Soviet Physics Dokl.* 14 (1969/70), 635-637. (B. P. Zeigler) 41 #8145

az-Zarqāl, abū 'Alī. See al-Zarqālla, Abu Isḥāq al-Naqqāsh.

al-Zarqālla, Abu Ishāq al-Naqqāsh
(See Boutelle, Marion, 41 #5149 and Toomer, G. J., 41 #5150)

al Zarqālī, Abu Ishāq al-Naqqāsh. See al- Zarqālla, Abu Ishāq al-Naqqāsh.

al- Zarqellu, Abu Ishāq al-Naqqāsh. See al-Zarqālla, Abu Ishāq al-Naqqāsh.

Zarubič, S. Z.

An iterative method of solution of ordinary differential eqautions. (Russian) *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 249-254. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 33 #3470

On bilateral approximation in the numerical integration of Cauchy's problem for ordinary differential equations. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1965, 1278-1282. (Walter Gautschi) 32 #4862

Zarubin, A. G.

Boundary layer equation in the two-dimensional theory of ocean flows. *Dokl. Akad. Nauk SSSR* 179 (1968), 798-801 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 302-304. (D. R. Smith) 38 #2456

The problem of nonstationary free convection. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1378-1383. (L. Dragoş) 40 #577

A certain class of nonlinear operator equations. (Russian) *Dokl. Akad. Nauk SSSR* 184 (1969), 530-533. (G. C. Barozzi) 39 #834

Zaruc'kiĭ, V. O.

The equilibrium of ridged cylindrical shells. (Russian) *Prikladna. Meh.* 1 (1965), *vyp.* 11, 28-38. (Z. Kaczkowski) 33 #3530

Zaslavskiĭ, A. E.

Statistical criteria for a simple hypothesis in the case of a multidirensional normal distribution. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 569-575. (V. Kurotschka) 36 #3458

Zaslavskiĭ, A. H.

On the isomorphism problem for stationary processes. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 318-326. (C. W. Helstrom) 29 #1674

Zaslavskiĭ, B. I.

(with Klepikova, N. A.) On a certain class of exact particular solutions of the equations of transonic gas flows. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1965, *no.* 6, 65-68. (J. P. Guiraud) 33 #6953

Zaslavskiĭ, G. M.

(with Moiseev, S. S.; Sagdeev, R. Z.) Asymptotic methods of hydrodynamic stability theory. (Russian) *PMTF Ž. Prikl. Meh. i Tehn. Fiz.* 1964, *no.* 5, 44-55. (Şt. I. Gheorghiţă) 32 #1989

(with Moiseev, S. S.) Viscosity processes in relativistic magnetohydrodynamics. *Z. Tehn. Fiz.* 33 (1963), 782-787 *(Russian); translated as Soviet Physics Tech. Phys.* 8 (1964), 590-593. (H. Weitzner) 30 #1814a

Expression for heat flow in relativistic magnetohydrodynamics. *Ž. Tehn. Fiz.* 33 (1963), 801-804 *(Russian); translated as Soviet Physics Tech. Phys.* 8 (1964), 603-605. (H. Weitzner) 30 #1814b

Zaslavskiĭ, I. D.

On the differentiation and integration of constructive functions. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 25-27. (H. B. Curry) 31 #2147

Graph schemes with memory. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 99-192. (H. B. Curry) 34 #5589

(with Ceĭtin, G. S.) Concerning a generalized principle of constructive selection. (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 344-347. (E. Mendelson) 34 #55

Rectifiability of constructive plane curves. (Russian. English and Armenian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 2 (1967), *no.* 2, 69-82. (A. Heyting) 36 #48

The realization of Boolean functions by means of automata. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 47 (1968), 129-133. (J. Kuntzmann) 42 #2878

(with Ceĭtin, G. S.; Šanin, N. A.) Peculiarities of constructive mathematical analysis. *Proc. Internat. Congr. Math. (Moscow, 1966), pp.* 253-261. *Izdat. "Mir", Moscow,* 1968. (E. M. Fels) 38 #1000

(with Manukjan, S. N.) Partitionings of the plane by constructive curves. (Russian) *Trudy Vyčisl. Centra Akad. Nauk Armjan. SSR i Erevan. Gos. Univ.* 5 (1968), 26-138. (A. Heyting) 41 #8211

(See also Brouwer, L. E. J., 41 #8212)

The axiomatic determination of constructive objects and ope ations. (Russian. Armenian and English summaries) *Izv. Akad. N Armjan. SSR Ser. Mat.* 4 (1969), *no.* 3, 153-181. (M. Rogava) 42 #2942

Shannon's pseudofunctions. (Russian) *Zap. Naučn. Sem. Leningrad. Otdel. Mat. Inst. Steklov. (LOMI)* 16 (1969), 65-76. Pacholski) 42 #78

(with Ceĭtin, G. S.) A criterion of the rectifiability of constructive plane curves. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 5, 434-440. (A. Heyting) 44 #2577

Zaslavskiĭ, S. Ja.

On the structure of a sort of associative network. (Russian. English summary) *Kibernetika (Kiev)* 1965, *no.* 3, 40-43. (I. Cederbaum) 33 #2430

Zaslavsky, I. D. See Zaslavskiĭ, I. D.

Zassenhaus, Hans J.

(with Bambah, R. P.; Rogers, C. A.) On coverings with conv domains. *Acta Arith.* 9 (1964), 191-207. (H. S. M. Coxeter) 29 #3959

(with Block, Richard E.) The Lie algebras with a nondegene trace form. *Illinois J. Math.* 8 (1964), 543-549. (G. B. Seligma 29 #4776

Emil Artin, his life and his work. *Notre Dame J. Formal Lo* 5 (1964), 1-9. (Editors) 30 #4661

(with Lewis, D. J.; Schinzel, A.) An extension of the theo of Bauer and polynomials of certain special types. *Acta Arith.* (1965/66), 345-352. (W. H. Mills) 32 #7545

(with Bambah, R. P.; Woods, Alan) Three proofs of Minkowski second inequality in the geometry of numbers. *J. Austral. Math. Soc.* 5 (1965), 453-462. (J. W. S. Cassels) 32 #5602

On the Hensel lemma for Lie-algebras. *Math. Z.* 86 (1965), 396-409. (G. B. Seligman) 33 #4115

(with Hoechsmann, K.) Über das Kriterium von Cartan-Killing *Math. Z.* 90 (1965), 202-204. (W. G. Lister) 32 #166

(with Schinzel, A.) A refinement of two theorems of Kroneck *Michigan Math. J.* 12 (1965), 81-85. (R. Ayoub) 31 #158

(with Eichhorn, Wolfgang) Herleitung von Acht- und Sechzehn Quadrate-Identitäten mit Hilfe von Eigenschaften der verallgemeinerten Quaternionen und der Cayley-Dicksonschen Zahlen. *Arc Math. (Basel)* 17 (1966), 492-496. (V. Dlab) 34 #5852

(with Hirsch, K. A.) Finite automorphism groups of torsion-free groups. *J. London Math. Soc.* 41 (1966), 545-549. (Ladislav Procházka) 33 #5714

Ein Algorithmus zur Berechnung einer Minimalbasis über gegebener Ordnung. *Funktionalanalysis, Approximationstheorie, Numerische Mathematik (Oberwolfach, 1965), pp.* 90-103. *Birkhäuser Basel,* 1967. (O. Taussky-Todd) 37 #2720

(with Sonn, J.) On the theorem on the primitive element. *Amer. Math. Monthly* 74 (1967), 407-410. (M. J. Wonenburger) 35 #4201

On the fundamental theorem of algebra. *Amer. Math. Monthly* (1967), 485-497. (M. J. Wonenburger) 36 #2605

Über die Fundamentalkonstruktionen der endlichen Körpertheorie. *Jber. Deutsch. Math.-Verein.* 70 (1967/68), *Heft* 4, *Abt.* 1, 177-181. (R. J. McEliece) 39 #175

Orders as endomorphism rings of modules of the same rank. *London Math. Soc.* 42 (1967), 180-182. (W. S. Martindale, III) 34 #5876

The group of an equation. *Nachr. Akad. Wiss. Göttingen Math Phys. Kl. II* 1967, 147-166. (W. Ledermann) 37 #5191

Über die Äquivalenz ganzzahliger Darstellungen. *Nachr. Akad. Wiss. Gottingen Math.-Phys. Kl. II* 1967, 167-193. (H. K. Farahat 37 #6319

What makes a loop a group? *Amer. Math. Monthly* 75 (1968), 139-142. (D. A. Robinson) 37 #1506

(with Hoechsmann, K.; Roquette, P.) A cohomological characterization of finite nilpotent groups. *Arch. Math. (Basel)* 19 (1968), 225-244. (L. Evens) 37 #2863

On a theorem of Kronecker. *Delta (Waukesha)* 1 (1968/69), 1-14. (L. Carlitz) 41 #1687

(with Chowla, S.) Some conjectures concerning finite fields. *Norske Vid. Selsk. Forh. (Trondheim)* 41 (1968), 34-35. 38 #2126

A presentation of the groups PSL(2, *p*) with three defining relations. *Canad. J. Math.* 21 (1969), 310-311. (J. Mennicke) 39 #293

(with Roquette, P.) A class rank estimate for algebraic number fields. *J. London Math. Soc.* 44 (1969), 31-38. (G. Whaples) 38 #4444

On linear noetherian groups. *J. Number Theory* 1 (1969), 70-89. (B. A. F. Wehrfritz) 39 #4294

(with O'Meara, O. T.) The automorphisms of the linear congruence groups over Dedekind domains. *J. Number Theory* 1 (1969), 211-221. (G. E. Wall) 39 #4292

Characterization of unipotent matrices. *J. Number Theory* 1 (1969), 222-230. (G. B. Seligman) 39 #1568

On Hensel factorization. I. *J. Number Theory* 1 (1969), 291-311. (T. Kubota) 39 #4120

A condition for the compatibility of submodules of a module. *J. Number Theory* 1 (1969), 467-476. (K. Honda) 40 #4368 (with Liang, J.) On a problem of Hasse. *Math. Comp.* 23 (1969), 515-519. (D. H. Lehmer) 40 #122

On a packing inequality for plane sectorial norm distances. *Punjab Univ. J. Math. (Lahore)* 2 (1969), 1-9. (J. H. H. Chalk) 42 #4496

A real root calculus. *Computational Problems in Abstract Algebra (Proc. Donf., Oxford,* 1967*), pp.* 383-392. *Pergamon, Oxford,* 1970. (H. F. Mattson, Jr.) 43 #1953

(with Taussky, Olga) On the 1-cohomology of the general and special linear groups. *Aequationes Math.* 5 (1970), 129-201. (J. Dieudonné) 44 #4076

On a problem of H.-G. Steiner. *J. Number Theory* 2 (1970), 322-328. (T. Kubota) 41 #8382

(with Sehgal, Surinder K.) The Frattini subgroups of linear noetherian groups. *J. Number Theory* 3 (1971), 111-114. (W. J. Wong) 42 #7790

(with Brown, H.) Some empirical observations on primitive roots. *J. Number Theory* 3 (1971), 306-309. (D. H. Lehmer) 44 #5270

(with Johnson, Charles Edward) On equivalence of finite group extensions. *Math. Z.* 123 (1971), 191-200. (I. B. S. Passi) 44 #5381

On the units of orders. *J. Algebra* 20 (1972), 368-395. (T. Ono) 44 #6659

stavenko, L. G.

(with Čilok, A.) An application of the stationary-phase method to the solution of kinetic equations. *Dokl. Akad. Nauk SSSR* 158 (1964), 305-308 *(Russian); translated as Soviet Physics Dokl.* 9 (1965), 777-779. (G. L. Lamb, Jr.) 32 #8903

Particle-like solutions of a nonlinear wave equation. *Prikl. Mat. Meh.* 29 (1965), 430-439 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 497-509 (1966). (A. Langenbach) 35 #556

stávka, Zdeněk

On algorithms with memory elements. (Russian. Czech summary) *Kybernetika (Prague)* 4 (1968), 201-225. (E. M. Fels) 38 #4316

stěra, Bohumil

A homomorphic mapping between function spaces. (Russian) *Arch. Math. (Brno)* 3 (1967), 139-155. (R. Cristescu) 38 #4960

Vereinigungshomomorphismen von Verbänden. (Russian summary) *Spisy Přirod. Fak. Univ. Brno* 1969, *čislo* 500, 51-62. (A. C. Choudhury) 43 #3180

tepjakin, M. M.

On stability of motion in one case of the three-body problem. (Russian) *Approximate methods of solving differential equations, pp.* 27-32. *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1963. (E. Leimanis) 29 #3240

An application of the small parameter method to the computation of instability zones of a system of differential equations with periodic coefficients. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 87-92. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (A. D. Ziebur) 41 #2133

tulovskaia, K. D. See Zatulovskaja, K. D.

tulovskaja, K. D.

Sur les équations différentielles trinômes. (Russian and Romanian summaries) *Bul. Inst. Politehn. Iaşi (N.S.)* 8(12) (1962), *fasc.* 3-4, 25-30. (T. L. Sherman) 33 #1522

(with Gusev, V. A.) On monogenic matrix functions. (Russian. Romanian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11 (1965), 27-38. (B. S. Popov) 33 #7597

Analytic *F*-monogenic functions (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 1 (1966), *no.* 3, 155-161. (R. P. Boas, Jr.) 33 #5917

(with Fedorov, V. S.) Monogenic matrix-functions. (Russian. French summary) *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1295-1305. (Editors) 39 #4409

tzkis, Henry

Hertz's derivation of Maxwell's equations. *Amer. J. Phys.* 33 (1965), 898-904. (V. H. Rumsey) 32 #3451

Snell's law and the calculus of variations. *J. Opt. Soc. Amer.* 55 (1965), 59-61. (I. Kay) 32 #740

ubek, Othmar

Einige Beiträge und Bemerkungen zum Newtonschen und Eulerschen Nullstellenverfahren, neben einigen allgemeineren Ergebnissen. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 176 (1967/68), 169-207; *ibid.* 177 (1969), 343-394. (V. Ganapathy Iyer) 43 #1416

uderer, Erich

An integral representation approach to diffraction by a smooth object. *J. Math. Anal. Appl.* 18 (1967), 17-37. (R. E. Kleinman) 35 #2558

Uniform asymptotic solutions of the reduced wave equation. *J. Math. Anal. Appl.* 30 (1970), 157-171. (R. E. Kleinman) 43 #726

Boundary layer and uniform asymptotic expansions for diffraction problems. *SIAM J. Appl. Math.* 19 (1970), 575-600. (N. Zitron) 42 #7139

Uniform progressing wave expansions. *J. Math. Anal. Appl.* 36 (1971), 201-219. (S. Delache) 44 #7143

A uniform asymptotic turning point theory for second order linear ordinary differential equations. *Proc. Amer. Math. Soc.* 31 (1972), 489-494. (F. Stenger) 44 #5563

Zaunick, Rudolph

(See von Tschirnhaus, Ehrenfried Walther, 33 #3867)

Zaustinsky, Eugene M.

Extremals on compact *E*-surfaces. *Trans. Amer. Math. Soc.* 102 (1962), 433-445. (T. Ohkubo) 29 #4017

Žautykov, O. A.

Application of the averaging method to the solution of a partial differential equation occurring in the theory of oscillations. (Russian) *Približ. Metod. Rešen. Differencial'. Uravnen. Vyp.* 2 (1964), 52-61. (J. Friberg) 33 #393

Denumerable systems of differential equations and their applications. (Russian) *Differencial'nye Uravnenija* 1 (1965), 162-170. (W. T. Kyner) 33 #4413

Principle of averaging for infinite systems of differential equations. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October* 17-22, 1963*) (Russian), pp.* 41-43. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (W. T. Kyner) 33 #4412

The averaging principle in nonlinear mechanics as applied to denumerable systems of equations. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 1, 39-46. (J. Mathews) 32 #6738

Extension of theorems of Poincaré to infinite systems of differential equations containing a parameter. (Russian) *Math. Phys.* (1966) *(Russian), pp.* 3-22. *Naukova Dumka, Kiev,* 1966. (P. C. Sikkema) 34 #7916

(with Persidskiĭ, K. P; Kim, E. I.; Bagautdinov, G. N.) The development of mathematics in Kazakhstan. (Russian) *October Sci. Kazakhstan (Russian), pp.* 74-101. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. (Editors) 35 #6511

Some applications of the theory of countable systems of implicit functions. (Russian) *Differential Equations and their Appl. (Russian), pp.* 3-9. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. (R. F. Matlak) 36 #2875

(with Bagautdinov, G.; Bogdanov, Ju. S.) Konstantin Petrovič Persidskiĭ. (Russian) *Differencial'nye Uravnenija* 7 (1971), 941-945. (Editors) 43 #7288

Zavadskiĭ, Ju. V.

Asymptotic approximations in the dynamics of an elastic layered inhomogeneous medium. *Akust. Ž.* 11 (1965), 168-175 *(Russian); translated as Soviet Physics Acoust.* 11 (1965), 141-146. 32 #3367

Zavališčin, S. T.

On some extremal properties of trigonometric polynomials. (Russian) *Trudy Mat. Inst. Steklov.* 78 (1965), 3-11. (R. P. Boas, Jr.) 32 #8023

On a certain optimal problem with a single switching. *Differencial'nye Uravnenija* 2 (1966), 571-573. (W. M. Wonham) 34 #8853

Stability of generalized processes. I, II. (Russian) *Differencial'nye Uravnenija* 2 (1966), 872-881; *ibid.* 3 (1967); 171-179. (C. S. Coleman) 37 #1744

Periodic generalized orbits. (Russian) *Differencial'nye Uravnenija* 3 (1967), 1231-1239. (C. Corduneanu) 36 #5449

The concept of stability with respect to a generalized perturbation. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2021-2029. (V. Lakshmikantham) 37 #1729

Determination of the reaction of a linear nonstationary transfer system to locally summable influences. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1404-1412. (D. Bobrowski) 38 #361

Certain criteria for the stability of the transformation of a locally integrable signal by a transmission system. (Russian) *Differencial'nye Uravnenija* 5 (1969), 954-957. (C. E. Langenhop) 40 #482

The locally integrable periodic motions of a nonlinear transmission system. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1575-1582. (J. M. Skowroński) 40 #7557

Optimal realization of a given process by a discontinuous exit signal of a transmission system. (Russian) *Differencial'nye Uravnenija* 6 (1970), 412-419. (G. Bojadžiev) 41 #9629

Multidimensional transmission systems of generalized processes. I, II. (Russian) *Differencial'nye Uravnenija* 6 (1970), 809-816; *ibid.* 6 (1970), 1179-1187. (V. F. Dem'janov) 42 #7333

Multidimensional transmission systems of generalized processes. III. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1792-1799. (V. F. Dem'janov) 43 #3028

On the question of the general form of a linear equation. I, II. (Russian) *Differencial'nye Uravnenija* 7 (1971), 791-797; *ibid.* 7 (1971), 981-989. (D. Przeworska-Rolewicz) 44 #1859

Zavalo, S. T.

Operator *S*-free groups. I, II. (Russian) *Ukrain. Mat. Ž.* 16 (1964), 593-601; *ibid.* 16 (1964), 730-751. (J. Mennicke) 31 #3519

Zav'jalov, Ju. S.

Interpolation by cubic splines. (Russian) *Vyčisl. Sistemy Vyp.* 38 (1970), 23-73. (G. Maeß) 44 #5662

Interpolation by bicubic splines. (Russian) *Vyčisl. Sistemy Vyp.* 38 (1970), 74-101. (G. Maeß) 44 #5663

An extremal property of cubic splines and a smoothing problem. (Russian) *Vyčisl. Sistemy Vyp.* 42 (1970), 89-108. (Jozef Miklośko) 44 #7710

Zav'jalov, O. I.

A majoration technique in quantum mechanics. *Dokl. Akad. Nauk SSSR* 151 (1963), 539-542 *(Russian); translated as Soviet Physics Dokl.* 8 (1964), 691-693. (C. A. Hurst) 29 #970

(with Polivanov, M. K.; Horužiĭ, S. S.) Analytical properties of the amplitude in the quasipotential acattering. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1654-1659 *(Russian. English summary); translated as Soviet Physics JETP* 18 (1964), 1135-1138. (F. Calogero) 31 #5494

High-energy asymptotic behavior of converging Feynman diagrams. *Ž. Èksper. Teoret. Fiz.* 47 (1964), 1099-1107 *(Russian. English summary); translated as Soviet Physics JETP* 20 (1965), 736-742. (P. G. Federbush) 32 #2069

(See also Jost, Res, 37 #6090)

(with Suško, V. N.) A class of representations of canonical commutation relations in quantum field theory. *Dokl. Akad. Nauk SSSR* 183 (1968), 56-59 *(Russian); translated as Soviet Physics Dokl.* 13 (1969), 1107-1109. (R. F. Stora) 40 #6894

Zavoĭčinskiĭ, B. I.

On a deformation problem for an elastic-visco-plastic material. (Russian. English summary) *Vestnik Moskov Univ. Ser. I Mat. Meh.* 1964, *no.* 5, 29-38. (Author's summary) 29 #6707

Zavolženskiĭ, M. V.

Oscillations of a pin in a bearing. (Russian) *Izv. Vyss. Učebn. Zaved. Matematika* 1968, *no.* 12 (79), 35-44. (B. A. Bondarenko) 40 #2281

The stability of the motion of a pin in a bearing. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1971, *no.* 6 (109), 54-60. (B. A. Bondarenko) 44 #7816

Žavrid, G. P.

(with Suprunenko, D. A.) Intransitive nilpotent subgroups of a symmetric group. (Russian) *Dokl. Akad. Nauk BSSR* 2 (1958), 320-322. (P. A. Gol'dberg (RŽMat 1960 #149)) 41 #313

On the theory of solvable matrix groups. (Russian) *Dokl. Akad. Nauk BSSR* 11 (1967), 873-877. (H. Salzmann) 36 #2713

Maximal solvable subgroups of GL(4, *P*). (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1968, *no.* 3, 30-37. (H. Salzmann) 40 #247 (E)

Letter to the editor. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1969, *no.* 2, 133. (H. Salzmann) 41 #1878

Zav'yalov, O. I. See Zav'jalov, O. I.

Zawadowski, Alfred

(Pócsik, G.) A field-theoretic method in the theory of superconductivity. *Phys. Lett.* 7 (1963), 173-175. (A. J. Layzer) 31 #3134

(with Pócsik, G.) A field-theoretical method in the theory of superconcuctivity. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 223-228. (A. J. Layzer) 31 #3135

(with Pócsik, G.) A field-theoretical method in the theory of superconcuctivity. II. *Nuovo Cimento* (10) 32 (1964), 1110-1112. (A. J. Layzer) 31 #3136

Gauge-invariant Hamiltonian of superconcuctivity and the flux quantization. *Phys. Rev. Lett.* 14 (1965), 557-558. (J. M. Blatt) 31 #2014

Zawadowski, W. M.

One more extension theorem for operator systems. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 101-105. (W. Słowikowski) 31 #3816

On regular extensions of operator systems. *Fund. Math.* 56 (1964), 107-113. (J. Horváth) 30 #1397; erratum, 30, p. 1206

(See also Maurin, Krzyztof, 36 #6957)

On duality between (L_1F)-spaces and (L_2F)-spaces. *Studia Math.* 31 (1968), 217-231. (V. Pták) 40 #684

Zawadzki, Romuald

On some theorems on distortion and rotation in the class of symmetric starlike functions of order *α*. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 17 (1969), 639-645. (M. Reade) 41 #7089

On some theorems on distortion and rotation in the class of *k*-symmetrical starlike functions of order α. *Ann. Polon. Math.* 24 (1970/71), 169-185. (K. Szilárd) 44 #5446

Zawischa, D.

Superfluidity in Fermi systems especially in atomic nuclei. *Nuclear Phys.* 57 (1964), 579-592. (R. Prange) 31 #3137

Zaycoff, Raschko. See Zaĭkov, Raško.

Zaykov, R. See Zaĭkov, Raško.

Zboĭčik, I. N.

Forms of equivalence of linear differential systems, relations among them and criteria for their existence. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 371-373. (L. Cesari) 34 #30

Representations of a solution of a system of linear differential equations in a neighborhood of an irregular singular poi (Russian) *Differencial'nye Uravnenija* 3 (1967), 601-618. (C. Corduneanu) 35 #4495

Calculational formulas and asymptotics, with estimates of t function $F(z) = \sum_{k=0}^{\infty} z^k/(k!)^2$. (Russian) *Differencial'nye Uravnenija* 3 (1967), 820-830. (E. L. Albasiny) 36 #4789

The asymptotic equivalence of the solutions of certain lin systems of differential equations. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2161-2176. (R. Reissig) 37 #6547

Zboĭčik, N. A.

Quadratic integrals of linear systems of differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 381-384. (Š. Schwabik) 42 #614

The influence of strong dynamical perturbations on the beha of the solutions of autonomous linear differential systems. (Russian) *Differencial'nye Uravnenija* 7 (1971), 798-806, 947-948. (M. Ráb) 44 #4307

Zbořil, V.

(with Přibáň, M.; Svoboda, F.) A remark on the synthesis of logical schemes. (Russian) *Acta Tech. ČSAV* 13 (1968), 73 (I. Cederbaum) 40 #5346

Zboržil, V. See Zbořil, V.

Zchakaja, D. See Chakaja, D.

Ždanko, A. V.

A deterministic model of the movement and amortization of basic funds in extended reproduction. (Russian) *Èkonom. i Mat. Metody* 6 (1970), 273-287. (L. A. Petrosyan) 44 #1400

Ždanov, A. N.

(with Oleĭnikov, V. A.) Algebraic functions with the simpl arrangement of singularities. (Russian. English summary) *Vest Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 6, 9-13. (D. Lieberman) 40 #7473

Ždanov, G. A.

On an approximation method of solving boundary-value proble (Russian) *Perm. Gos. Univ. Učen. Zap. Mat.* 16, *vyp.* 3, 75-100 (1958. (H. A. Antosiewicz) 31 #5342

Ždanov, G. M.

On the approximate solution of a system of differential equations of first order with retarded argument. (Russian) *Uspehi Mat. Nauk* 16 (1961), *no.* 1 (97), 143-148. (R. Carmignani) 33 #4425

Ždanov, M. S.

(with Schreibmann, V. I.) Correlation technique for the separation of gravitational fields. *Izv. Akad. Nauk SSSR Ser. Fi Zemli* 1969, 94-101 *(Russian); translated as Izv. Acad. Sci. USSR Phys. Solid Earth* 1969, 532-536. (G. E. Backus) 43 #1593

Ždanov, S. I.

Carleman type operators. (Russian) *Sibirsk, Mat. Ž.* 9 (1968), 825-832. (L. Cattabriga) 38 #6409

Ždanova, G. S.

* (with Ioselevič, O. V.; Kolobrodova, E. S.; Poluškin, V. A.; Černyĭ, A. I.) Русско-англо-французский терминологический словарь по информационной теории и практике. (Russian) [Russian-English-French dictionary of terminology of information theory and its applications] *Izdat. "Nauka", Moscow,* 1968. 240 *pp.* (Editors) 43 #7279

Ždanova, G. V.

On the spectrum of a non-selfadjoint Sturm-Liouville operato (Russian) *Differencial'nye Uravnenija* 3 (1967), 250-263. (H. Baumgärtel) 35 #3138

The asymptotics of the eigenvalues of a selfadjoint second order singular operator. (Russian) *Differencial'nye Uravnenija* 6 (1970), 838-851. (Z. Zieleźny) 43 #3855

Asymptotic series for the eigenvalues and eigenfunctions of second order self-adjoint operators. (Russian) *Differencial'nye Uravnenija* 7 (1971), 603-614. (Z. Zieležny) 44 #7031

Ždanovič, V. F.

Factorization of a linear differential operator. (Russian) *Uspehi Mat. Nauk* 16 (1961), *no.* 4 (100), 155-159. (A. Friedman) 31 #1421

Variational methods in the theory of optimal processes. (Russian) *Proc. First Republican Conf. Math. Byelorussia (Russia pp.* 35-75. *Izdat. "Vyssaja Škola", Minsk,* 1965. (R. Rishel) 37 #7197 rojewski, Z.

(with Meder, J.) On a relation between some special methods of summation. *Colloq. Math.* 19 (1968), 131-142. (F. P. Cass) 36 #6831

cca, Antonio

(with Gorini, Vittorio) Isotropy of space. *J. Mathematical Phys.* 11 (1970), 2226-2230. (J. Blackman) 42 #7221

cca, Pasquale

Su un problema al contorno per l'equazione $\Delta u + \lambda u = 0$. (English summary) *Rend. Accad. Sci. Fis. Mat. Napoli* (4) 33 (1966), 279-303. (A. Dou) 37 #4432

ckendorf, É.

Les facteurs premiers des nombres $2^n \pm 1$ et $3^n \pm 1$. *Bull. Soc. Roy. Sci. Liège* 39 (1970), *fasc.* 3-4, 89-92. (S. L. Segal) 41 #8336; erratum, 42, p. 1825

dek, Mishael

Cayley's decomposition and Pólya's *W*-property of ordinary linear differential equations. *Israel J. Math.* 3 (1965), 81-86. (S. P. Hastings) 33 #1555

Continuity and location of zeros of linear combinations of polynomials. *Proc. Amer. Math. Soc.* 16 (1965), 78-84. (M. Marden) 30 #2128

On approximation by solutions of ordinary linear differential equations. *SIAM J. Numer. Anal.* 3 (1966), 360-365. (Walter Gautschi) 33 #8108

On the definition of restricted infrapolynomials. *J. Approximation Theory* 1 (1968), 251-254. (A. Sharma) 39 #419

e, Chong-Hung

On solving second order nonlinear differential equations. *Quart. Appl. Math.* 22 (1964), 71-73. (A. O. Garder, Jr.) 29 #4204

e, Yun-cheng

The Jacobi sums of orders thirteen and sixty and related quadratic decompositions. *Math. Z.* 115 (1970), 259-272. (A. L. Whiteman) 41 #6812

The Jacobi sums of order twenty-two. *Proc. Amer. Math. Soc.* 28 (1971), 25-31. (O. H. Körner) 42 #7629

el′, È. O.

Lacunary interpolation on Jacobi's knots. (Russian) *Herzen Lectures, XIX, Math. (Russian), p.* 29. *Leningrad. Gos. Ped. Inst., Leningrad,* 1966. (J. W. Schmidt) 35 #5822

Lacunary interpolation. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 214-219. (E. Riekstiņš) 36 #4240

Lacunary algebraic interpolation. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 105-110. (K. Frankowski) 37 #3741

Trigonometric $(0, p, q)$-interpolation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 3 (94), 27-35. (A. Lupaş) 44 #710

eman, E. C.

(with Hudson, J. F. P.) On combinatorial isotopy. *Inst. Hautes Études Sci. Publ. Math. No.* 19 (1964), 69-94. (N. H. Kuiper) 29 #621

(with Hudson, J. F. P.) On regular neighbourhoods. *Proc. London Math. Soc.* (3) 14 (1964), 719-745. (L. Neuwirth) 29 #4063 (E)

Twisting spun knots. *Trans. Amer. Math. Soc.* 115 (1965), 471-495. (L. Neuwirth) 33 #3290

(with Hirsch, M. W.) Engulfing. *Bull. Amer. Math. Soc.* 72 (1966), 113-115. (M. L. Curtis) 32 #1718

The topology of Minkowski space. *Topology* 6 (1966), 161-170. (A. G. Walker) 34 #6699

(with Armstrong, M. A.) Piecewise linear transversality. *Bull. Amer. Math. Soc.* 73 (1967), 184-188. (R. B. Sher) 34 #6780

(with Armstrong, M. A.) Transversality for piecewise linear manifolds. *Topology* 6 (1967), 433-466. (R. B. Sher) 36 #2157

* Lecture notes on dynamical systems. Lectures given at the Nordic Summer School in Mathematics (June 16th-July 6th, 1968). *Matematisk Institut, Aarhus Universitet, Aarhus,* 1968. 44 *pp. (not consecutively paged).* (S. Leela) 41 #3934

(with Hudson, J. F. P.) Correction to: "On regular neighbourhoods". *Proc. London Math. Soc.* (3) 21 (1970), 513-524. (L. Neuwirth) 43 #6912

galov, V. I.

Some problems for the equation

$$\left(\frac{\partial^2}{\partial x^2} + \operatorname{sgn} y \frac{\partial^2}{\partial y^2}\right)^n u = 0.$$

(Russian) *Boundary-value problems in the theory of functions of a complex variable, pp.* 3-16. *Izdat. Kazan. Univ., Kazan,* 1962. (R. N. Goss) 29 #5006

A boundary-value problem for an equation of mixed type with boundary conditions on both characteristics and with discontinuities on the transition curve. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 122 (1962), *kn.* 3, 3-16. (J. Nieto) 30 #367

Some boundary-value problems for a system of second-order equations of mixed type. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 122 (1962), *kn.* 3, 17-29. (J. Nieto) 30 #368

A certain case of the Tricomi problem. (Russian) *Trudy Sem. Kraev. Zadačam Vyp.* 3 (1966), 28-36. (A. F. Sidorov (RŽMat 1967 #10 B396)) 44 #4390

Zegeling, H.

(with Vlach, Milan) A note on a paper by A. Brandt and Y. Intrator. *Časopis Pěst. Mat.* 96 (1971), 12-17, 102. (U. Weisner) 44 #1417

Zeh, H. D.

Symmetry violating trial wave functions. *Z. Physik* 188 (1965), 361-373. (S. F. Tuan) 32 #3663

Zeheb, Ezra

(with Navot, I.) Two theorems on Hurwitz polynomials and their applications to symmetrical and antimetric two-ports. *IEEE Trans. Circuit Theory* CT-11 (1964), 500-502. (P. R. Bryant) 31 #1413

Sensitivity relationships in linear networks and some observations on hybrid networks. *IEEE Trans. Circuit Theory* CT-17 (1970), 430-432. (R. Liu) 42 #4332

Zehna, Peter W.

Inventory depletion policies. *Studies in applied probability and management science, pp.* 263-287. *Stanford Univ. Press, Stanford, Calif.,* 1962. (F. G. Foster) 29 #1061

* Sets with applications. *Allyn and Bacon, Inc., Boston, Mass.,* 1966. vi + 153 *pp.* (J. F. Jakobsen) 34 #5682

Invariance of maximum likelihood estimators. *Ann. Math. Statist.* 37 (1966), 744. (R. H. Berk) 33 #1922

Zehnder, C. A.

* (with Künzi, H. P.; Tzschach, H. G.) Numerische Methoden der mathematischen Optimierung, mit ALGOL- und FORTRAN-Programmen. Leitfäden der angewandten Mathematik und Mechanik, Band 8. *B. G. Teubner, Stuttgart,* 1967. 151 *pp.* (H. F. Karreman) 35 #3863

* (with Künzi, Hans P.; Tzschach, H. G.) Numerical methods of mathematical optimization, with ALGOL and FORTRAN programs. Translated from the German by Werner C. Rheinboldt and Cornelie J. Rheinboldt. *Academic Press, New York-London,* 1968. x + 171 *pp.* (Editors) 37 #2413

Zeidler, Eberhard

Über eine Klasse freier Randwertprobleme der ebenen Hydrodynamik. *Elliptische Differentialgleichungen, Band I (Kolloq., Berlin,* 1969*), pp.* 191-203. *Akademie-Verlag, Berlin,* 1970. (Author's summary) 42 #7140

Über eine Klasse nichtlinearer singulärer Randwertaufgaben. *Math. Nachr.* 43 (1970), 321-351. (K. Kreith) 41 #3782

Zeiger, H. P.

(with Arbib, M. A.) On the relevance of abstract algebra to control theory. *Automatica--J. IFAC* 5 (1969), 589-606. (N. N. Petrov) 42 #7308

Zeigler, R. K.

A uniqueness theorem concerning moment distributions. *J. Amer. Statist. Assoc.* 60 (1965), 1203-1206. (From the author's summary) 32 #8382

(with Goldman, Aaron S.) Comparisons of some two stage sampling methods. *Ann. Math. Statist.* 37 (1966), 891-897. (J. R. Blum) 33 #5064

(with Moore, R. H.) The use of non-linear regression methods for analyzing sensitivity and quantal response data. (French summary) *Biometrics* 23 (1967), 563-566. (Authors' summary) 35 #7512

(with Tietjen, G. L.) Double sampling plans where the acceptance criterion is the variance. *Technometrics* 10 (1968), 99-106. (S. Moriguti) 36 #7282

Zeĭnalov, B. A.

A criterion for the solvability of an arbitrary system of linear equations in integers. (Russian) *Dagestan. Gos. Univ. Učen. Zap.* 5 (1959), 159-165 (1960). 41 #141

On solving the matrix equation $BX = XB$ in univodular matrices. (Russian) *Azerbaĭdžan. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. i Him. Nauk* 1964, *no.* 1, 49-55. (R. F. Rinehart) 36 #2633

The units of a cyclic real field. (Russian) *Dagestan State Univ. Collection Sci. Papers, Math. Phys. (Russian), pp.* 21-23. *Dagestan. Kniž. Izdat., Makhachkala,* 1965. (E. Inaba) 36 #140

On the properties of the determinant of a matrix, commutative with similar integer matrices, and certain of their applications. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 971-974. (R. F. Rinehart) 33 #5644

Zeĭnalov, I. S.

(with Aliev, N. A.) The representation of a solution of a certain Cauchy problem in the form of an integral residue. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1264-1266. (A. Langenbach) 32 #7970

(with Rasulov, M. L.) New integral transforms. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 945-948. (C. Tanaka) 41 #752

Some new integral transforms. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1691-1696. (Wazir Hazan Abdi) 43 #7875

Zeĭnalova, A. A.

On completeness of the system of eigen and associated functions of a non-selfadjoint operator generated by a differential expression with retarded argument. (Russian) *Problems Funct. Anal. Appl. (Russian), pp.* 52-63. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (G. Biriuk) 33 #2863

Zeitler, H.

Eine reguläre Horosphärenüberdeckung des hyperbolischen Raumes. *Elem. Math.* 20 (1965), 73-79. (H. S. M. Coxeter) 31 #3935

Über Netze aus regulären Polygonen in der hyperbolishcen Geometrie. *Elem. Math.* 22 (1967), 56-62. (H. S. M. Coxeter) 35 #4812

Zwei Modelle der hyperbolischen Geometrie und ihr Zusammenhang. *Math.-Phys. Semesterber.* 14 (1967), 99-111. (W. Szmielew) 35 #6016

Über eine Parkettierung des dreidimensionalen hyperbolischen Raumes. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 12 (1969), 3-10. (H. Hadwiger) 42 #957

Inhaltsmaßzahlen für hyperbolische Rotationskörper. *Elem. Math.* 24 (1969), 73-85. (L. Guggenbuhl) 40 #4848

Zeitlin, David

On the sums $\sum_{k=0}^{n} k^p$ and $\sum_{k=0}^{n} (-1)^k k^p$. *Proc. Amer. Math. Soc.* 15 (1964), 642-647. (L. M. Milne-Thomson) 29 #5010

Power identities for sequences defined by $W_{n+2} = dW_{n+1} - cW_n$. *Fibonacci Quart.* 3 (1965), 241-256. (N. G. de Bruijn) 37 #146

Generating functions for products of recursive sequences. *Trans. Amer. Math. Soc.* 116 (1965), 300-315. (L. Carlitz) 32 #2769

On convoluted numbers and sums. *Amer. Math. Monthly* 74 (1967), 235-246. (M. Skalsky) 35 #1495

On generating functions and a formula of Chaudhuri. *Amer. Math. Monthly* 74 (1967), 1056-1062. (H. M. Srivastava) 36 #5413

On summation formulas and identities for Fibonacci numbers. *Fibonacci Quart.* 5 (1967), 1-43. (H. Gupta) 35 #117

On a class of polynomials obtained from generalized Humbert polynomials. *Proc. Amer. Math. Soc.* 18 (1967), 28-34. (H. M. Srivastava) 34 #4568

On a class of definite integrals. *Amer. Math. Monthly* 75 (1968), 878-879. (Editors) 38 #3391

On coefficient identities for cyclotomic polynomials $F_{pq}(x)$. *Amer. Math. Monthly* 75 (1968), 976-980. (W. Ledermann) 38 #4446

On determinants whose elements are products of recursive sequences. *Fibonacci Quart.* 8 (1970), *no.* 4, 350-359. (L. Carlitz) 42 #7522

A new class of generating functions for hypergeometric polynomials. *Proc. Amer. Math. Soc.* 25 (1970), 405-412. (Y. L. Luke) 41 #8719

Žekamuhov, M. K.

Some stationary motions in magneto-gasdynamics. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 3, 47-51. (L. Dragos) 32 #732

Stationary rotation of a rarefied gravitating gas mass in a magnetic field. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 4, 23-28. 31 #1873

Žekanowski, Zbigniew

Some properties of self-conjugate m-vectors in a Riemannian space V_{2m}. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 83 (1964), *zeszyt* 1, 67-76. (M. Kucharzewski) 33 #673

Some properties of m-vectors in a Riemannian space. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 2 (1964), 15-23. (M. Kucharzewski) 34 #3494

Certain properties of self-adjoint vectors in a Riemannian space V_{2m}. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk, Mat. No.* 6 (1965), 5-19. (M. Kucharzewski) 33 #4863

Some properties of self-dual affinors in the Riemannian space V_{2m}. (Polish, Russian and French summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 11 (1968), 111-143. (W. Wrona) 39 #4769

(with Jaszczak, Marian) On some properties of self-dual K-affinors in the Riemannian space. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 12 (1968), 47-56. (W. Wrona) 39 #3425a

On some constructions of self-dual K-affinors in the Riemannian space V_{2m}. (Polish. Russian and English summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 12 (1968), 57-65. (W. Wrona) 39 #3425b

On some differential properties of the self-dual m-vectors and k-affinors in the Riemannian space V_{2m}. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 14 (1968), 87-105. (A. Goetz) 39 #3426

On some generalization of J. Haantjes and W. Wrona theorem in the Riemannian space V_{2m}. (Polish and Russian summaries) *Zeszyty Nauk. Politech. Warszawsk. Mat. No.* 14 (1968), 107-112. (T. Okubo) 39 #7532

On certain generalization of the concept of a self-dual tensor, a harmonic tensor and a killing tensor in a V_n. *Demonstratio Math.* 1 (1969), *no.* 3, 60 *pp.* (A. Rapcsák) 43 #10

Želazko, W.

(with Rajagopalan, M.) L^p-conjecture for solvable locally compact groups. *J. Indian Math. Soc. (N.S.)* 29 (1965), 87-92. (A. Brown) 32 #2506

Metric generalizations of Banach algebras. *Rozprawy Mat.* 47 (1965), 70 *pp.* (M. Nakamura) 33 #1752

On generalized topological divisors of zero in m-convex locally convex algebras. *Studia Math.* 28 (1966), 9-16. (R. Are 34 #3362

On generalized topological divisors of zero in real m-convex algebras. *Studia Math.* 28 (1966/67), 241-244. (D. W. Bailey) 35 #7128

On topological divisors of zero in p-normed algebras without unit. *Colloq. Math.* 16 (1967), 231-234. (J. G. Horne) 35 #344

(with Hirschfeld, R. A.) On spectral norm Banach algebras. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 195-199. (W. B. Jones) 37 #4621

(with Kahane, J.-P.) A characterization of maximal ideals in commutative Banach algebras. *Studia Math.* 29 (1968), 339-343. (P. Civin) 37 #1998

A characterization of multiplicative linear functionals in complex Banach algebras. *Studia Math.* 30 (1968), 83-85. (B. Yood) 37 #4620

Concerning extension of multiplicative linear functionals in Banach algebras. *Studia Math.* 31 (1968), 495-499. (M. Rosenfeld) 39 #1974

Concerning non-commutative Banach algebras of type ES. *Colloq. Math.* 20 (1969), 121-126. (M. Rosenfeld) 39 #1975

On m-convex B_0-algebras of type ES. *Colloq. Math.* 20 (1969) 299-304. (G. R. Allan) 40 #3312

A characterization of Šilov boundary in function algebras. *Comment. Math. Prace Mat.* 14 (1970), 59-64. (J. D. Pryce) 42 #6624

Zelazny, Roman S.

(with Case, K. M.; Kanal, M.) Spherically symmetric boundar value problems in one-speed transport theory. *J. Mathematical Phys.* 11 (1970), 223-239. (E. H. Bareiss) 41 #3053

Zel'dovič, Ja. B.

Semiclosed worlds in the general theory of relativity. *Ž. Èksper. Teoret. Fiz.* 43 (1962), 1037-1043 *(Russian. English summary); translated as Soviet Physics JETP* 16 (1963), 732-737. (A. Das) 30 #2900

(with Dmitriev, N. A.) The energy of accidental motions in the expanding universe. *Ž. Èksper. Teoret. Fiz.* 45 (1963), 1150-1155 *(Russian. English summary); translated as Soviet Physi JETP* 18 (1964), 793-796. (W. B. Bonnor) 29 #2090

* (with Myškis, A. D.) Елементы прикладной математики. (Russian) [Elements of applied mathematics] *Izdat. "Nauka", Moscow,* 1965. 615 *pp.* (M. D. Friedman) 34 #3829

Newtonian and Einsteinian motion of homogeneous matter. *Astronom. Ž.* 41 (1964), 873-883 *(Russian); translated as Soviet Astronom. AJ* 8 (1965), 700-707. (I. I. Shapiro) 31 #4588

Probability of quasar production. *Astronom. Ž.* 42 (1965), 283-286 *(Russian); translated as Soviet Astronom. AJ* 9 (1965), 221-223. (G. B. Field) 31 #4595

(with Novikov, I. D.) Relativistic astrophysics. I. *Uspehi Fiz. Nauk* 84 (1964), 377-417 *(Russian); translated as Sovi Physics Uspekhi* 7 (1965), 763-788. (D. W. Sciama) 31 #5678

(with Okun', L. B.) Possible CP-violation and the nature of the $\Delta T = 1/2$ rule. *Phys. Lett.* 16 (1965), 319-320. (R. R. Lewis 33 #1046

(with Novikov, I. D.) Relativistic astrophysics. II. *Uspeh Fiz. Nauk* 86 (1965), 447-536 *(Russian); translated as Soviet Physics Uspekhi* 8 (1966), 522-577. (B. Carter) 33 #2405

(See also Mechanics in the USSR in the last 50 years in four volumes. Vol. I: General and applied mechanics, 39 #2371)

(with Bisnovatyĭ-Kogan, G. S.) The equilibrium states of a system of gravitating particles. (Russian) *Astrofizika* 5 (1969), 425-431. (R. I. Pimenov) 42 #5583

Zel'dovich, Ia. B. See Zel'dovič, Ja. B.

Zeldovich J. See Zel'dovič, Ja. B.

Zeldovich, Y. B. See Zel'dovič, Ja. B.

Zelen, Marvin

(with Goldman, A. J.) Weak generalized inverses and minimum variance linear unbiased estimation. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 151-172. (R. L. Plackett) 30 #3525

(with Weiss, George H.) A semi-Markov model for clinical trials. *J. Appl. Probability* 2 (1965), 269-285. (R. M. Cormack) 32 #7266 (with Federer, W. T.) Application of the calculus for factorial arrangements. III. Analysis of factorials with unequal numbers of observations. *Sankhyā Ser. A* 27 (1965), 383-400. (M. Atiqullah) 34 #2122

(with Feinleib, M.) On the theory of screening for chronic diseases. *Biometrika* 56 (1969), 601-614. (R. M. Cormack) 41 #2871

Play the winner rule and the controlled clinical trial. *J. Amer. Statist. Assoc.* 64 (1969), 131-146. (Author's summary) 39 #2283

lencov, B. P.

The analysis of the reliability of many-functional systems. (Russian) *Izv. Sibirsk. Otdel. Akad. Nauk SSSR* 1969, *no.* 8, 112-120. (A. Obretenov) 42 #5410

lenen'kiĭ, V. P.

Application of statistical decision theory to the exclusion of anomalous measurements. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 2, 139-142 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 2, 122-126. (E. S. Keeping) 42 #1273

lenjak, T. I.

A mixed problem for an equation which cannot be solved for the highest-order time derivative. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1268-1270. (P. Grisvard) 30 #2238

Asymptotic solution of a mixed problem. (Russian) *Differencial'nye Uravnenija* 2 (1966), 47-64. (R. Carroll) 33 #444

Stability of stationary solutions of a mixed problem. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 266-268. (P. Grisvard) 34 #7987

On the question of stability of mixed problems for a quasi-linear equation. (Russian) *Differencial'nye Uravnenija* 3 (1967), 19-29. (L. von Wolfersdorf) 35 #593

Stabilization of solutions of boundary value problems for a second-order parabolic equation with one space variable. (Russian) *Differencial'nye Uravnenija* 4 (1968), 34-45. (R. Guenther) 36 #6806

Generalized eigenfunctions of an operator connected with a certain problem of S. L. Sobolev. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 1075-1092. (J. L. B. Cooper) 38 #4837

The behavior at infinity of solutions of a certain mixed problem. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1676-1689. (L. von Wolfersdorf) 40 #6068

lenka, Jozef

Algorithmus for evaluation of spherical Bessel functions. *Apl. Mat.* 14 (1969), 176-178. (Y. L. Luke) 38 #6124

lenka, Miloslav

(See Rektorys, Karel, 39 #2370)

lenko, Bogdan

Axiomensysteme für *A*-Gruppen. (Serbo-Croation summary) *Glasnik Mat.-Fiz. Astronom. Ser. II Društvo Mat. Fiz. Hrvatske* 20 (1965), 205-233. (W. Imrich) 34 #2762

lenko, L. B.

Conditions for the semiboundedness and discreteness of the spectrum of the Sturm-Liouville operator on the semi-axis. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 9 (64), 31-40. (M. Urabe) 36 #4059

Discreteness conditions for the spectrum of the Sturm-Liouville operator in a space of vector functions. (Russian) *Mat. Zametki* 1 (1967), 583-588. (M. Ráb) 35 #4499

Defect index and spectrum of a self-adjoint system of first order differential equations. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 278-281. (M. Ráb) 37 #6800

Letter to the editor. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 3 (70), 122. (M. Urabe) 37 #1686

(with Rofe-Beketov, F. S.) The limit spectrum of systems of first order differential equations with slowly changing coefficients. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1982-1991. (R. C. Gilbert) 44 #7032

lenskiĭ, V. B.

An analogue of the Flaman problem for a pre-stressed visco-elastic medium. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1963, *no.* 6 (37), 58-63. (F. J. Lockett) 29 #4324

lezina, I. I.

Line quasinoneuclidean geometry as a complex Euclidean geometry. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 233-240. (W. Wrona) 33 #7923

Line Galilean geometry as a dual Euclidean geometry. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 243 (1965), 241-247. (A. Urban) 33 #4768

leznik, Frank J.

Quasi-Newton methods for nonlinear equations. *J. Assoc. Comput. Mach.* 15 (1968), 265-271. (Author's summary) 38 #5387

leznikar, Anton P.

Some arithmetic normal algorithms. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 17 (1962), 159-170 (1963). (E. M. Fels) 29 #2186

Behandlung logistischer Probleme mit Ziffernrechner. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 17 (1962), 171-179 (1963). (E. M. Fels) 29 #2188

Some algorithm theory and its applicability. (Serbo-Croatian summary) *Glasnik Mat.-Fiz. Astronom. Društvo Mat. Fiz. Hrvatske Ser. II* 18 (1963), 141-158. (E. M. Fels) 29 #2187

Overlapping algorithms. *Math. Systems Theory* 1 (1967), 325-345. (J. A. Schatz) 39 #68

Železnjakov, V. V.

(with Zlotnik, E. Ja.) Polarization of radio waves passing through a transverse magnetic field region in the solar corona. *Astronom. Ž.* 40 (1963), 633-642 *(Russian); translated as Soviet Astronom. AJ* 7 (1964), 485-491. (J. N. Kapur) 31 #4326

Železnov, E. I.

Application of the theory of additive functionals to stochastic differential equations. (Russian) *Differencial'nye Uravnenija* 2 (1966), 1535-1540. (Antonio Moro) 35 #496

Zeleznova, K. M.

(with Korneĭčuk, A. A.; Markov, A. S.) Approximate calculation of singular integrals. (Russian) *Proc. Conf. Math. Methods of Solution of Problems in Nuclear Phys. (Russian), pp.* 38-40. *Ob"edin. Inst. Jadernyh Issled., Dubna,* 1965. (A. H. Stroud) 35 #1213

Železovskiĭ, B. E.

Calculation of combination frequences in TW and BW amplifiers with preliminary modulation of the electron beam. (Russian) *Radiotehn. i Èlektron.* 10 (1965), 419-428. (J. E. Rosenthal) 31 #4353

Zelichowicz, W.

On the equation $(x^2 - 1)(z^2 - 1) + (y^2 - 1)^2$. *Prace Mat.* 13 (1969), 113-118. (W. H. Mills) 40 #2604

On the equation $x^2 + y^2 - z^2 = k$. (Polish. English and Russian summaries) *Fasc. Math. No.* 4 (1969), 79-90 (1970). (W. Narkiewicz) 41 #6776

Zelikin, M. I.

(with Tynjanskiĭ, N. T.) Determined differential games. (Russian) *Uspehi Mat. Nauk* 20 (1965), *no.* 4 (124), 151-157. (W. M. Wonham) 35 #2644

(See Pontrjagin, L. S., 34 #4033 and Isaacs, Rufus, 36 #1213)

Zelikovič, G. M. Bam. See Bam-Zelikovič, G. M.

Zelinka, Bohdan

Le nombre de connexité maximum d'un graphe aux nombre de sommets et d'arêtes donnés. (Czech and Russian summaries) *Časopis Pěst. Mat.* 88 (1963), 391-395. (J. W. Moon) 31 #5818

Opérations avec les modèles analytiques de langages. *Bull. Math. Soc. Sci. Math. R. S. Roumanie* 9(57) (1965), 351-355 (1966). (S. Marcus) 36 #2449

A remark on π-automorphisms. (Czech and Russian summaries) *Časopis Pěst. Mat.* 90 (1965), 99-100. (A. Appert) 34 #4143

Decomposition of a graph into isomorphic subgraphs. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 90 (1965), 147-152. (T. T. Tonkov) 33 #1253

Some inequalities concerning Π-isomorphisms. (Czech and Russian summaries) *Časopis Pest. Mat.* 90 (1965), 474-476. (G. Fodor) 32 #7423

The diameter of the graph of the system of proper subsemigroups of a commutative semigroup. (Czech. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 15 (1965), 143-145. (Author's summary) 32 #7457

The graph of the system of chords of a given circle. (Czech. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 15 (1965), 273-279. (Author's summary) 33 #2575

Un langage adéquat non homogène, dont les classes sont disjointes deux à deux. *Rev. Roumaine Math. Pures Appl.* 10 (1965), 1255-1257. (P. S. Landweber) 33 #7213

The semigroup of non-void subsets of a cyclic semigroup. (Czech. Russian and English summaries) *Časopis Pest. Mat.* 91 (1966), 72-76. (Št. Schwarz) 33 #5777

Independence of Birkhoff's system of postulates for distributive lattices with an identity element. (Czech. Russian and English summaries) *Časopis Pest. Mat.* 91 (1966), 472-477. (Št. Schwarz) 34 #7420

Introducing an orientation into a given non-directed graph. (Russian summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 66-71. (F. Harary) 34 #4167

On the number of independent complete subgraphs. *Publ. Math. Debrecen* 13 (1966), 95-97. (A. R. Bednarek) 34 #5707

Sur le *PS*-isomorphisme des langues. *Z. Math. Logik Grundlagen Math.* 12 (1966), 263-265. (H. P. Edmundson) 37 #43

On a problem of S. M. Ulam. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 92 (1967), 219-221. (S. Mardešić) 36 #6296

A remark on infinite edge-disjoint systems of paths in a graph. (Czech. Russian and English summaries) *Časopis Pěst. Mat.* 92 (1967), 289-293. (J. Bosák) 37 #102

Hasse's operator and directed graphs. (Czech and Russian summaries) *Časopis Pěst. Mat.* 92 (1967), 313-317. (H. Sachs) 36 #6322

The decomposition of a complete graph according to a given group. (Czech. English summary; loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 234-239. (D. Livingstone) 36 #5030

Sur les langages absolument bien adéquats. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 737-739. (M. Gross) 36 #6241

Un langage héréditaire qui n'est pas à un nombre d'états fini. *Rev. Roumaine Math. Pures Appl.* 12 (1967), 1107-1108. (S. Amarel) 36 #6242

A contribution to my article: "Introducing an orientation into a given non-directed graph". (Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 142-145. (F. Harary) 37 #3963 (E)

Erratum: "A contribution to my article 'Introducing an orientation into a given non-directed graph'". *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 316. (Editors) 37 #6207

Medians and peripherians of trees. *Arch. Math. (Brno)* 4 (1968), 87-95. (J. W. Moon) 42 #4436

Uncountable systems of edge-disjoint paths in a graph. (Czech. English and loose Russian summaries) *Časopis Pěst. Mat.* 93 (1968), 251-255. (J. Bosák) 42 #4434

The decomposition of a generalized graph into isomorphic subgraphs. (Loose Russian summary) *Časopis Pěst. Mat.* 93 (1968), 278-283. (H. Sachs) 43 #94

Tolerance graphs. *Comment. Math. Univ. Carolinae* 9 (1968), 121-131. (K. Wagner) 38 #1021

A type of multiplicative lattice. (Czech. English summary) *Mat. Časopis Sloven. Akad. Vied* 18 (1968), 90-98. (J. Jakubík) 39 #5441

Sur les langages absolument non adéquats. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 131-133. (H. P. Edmundson) 37 #3881

Generalized centers of gravity of trees. (Czech. English summary) *Mathematics (Geometry and Graph Theory) (Czech), pp.* 127-136. *Univ. Karlova, Prague,* 1970. (F. Neuman) 44 #111

Sur le PS-isomorphisme fort des langages. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 1, 123-126 (1970). (J.-F. Perrot) 41 #8181

Les graphes de Hasse des modèles analytiques de langages. *Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.)* 13(61) (1969), *no.* 3, 389-392 (1970). (E. G. Wagner) 43 #7274

Decompositions of simplex-like graphs and generalized bipartite graphs. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 1-6. (A. Pultr) 42 #1708

Improper vertices of a graph. (Czech. German summary) *Časopis Pěst. Mat.* 95 (1970), 155-169. (A. Pultr) 43 #1880

Weakly homogeneous graphs. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 248-251. (A. Pultr) 43 #95

Further remarks on infinite edge-disjoint systems of paths in a graph. (Czech. English summary) *Časopis Pěst. Mat.* 95 (1970), 309-315. (M. Maňas) 43 #96

Centrally symmetric Hasse diagrams of finite modular lattices. *Czechoslovak Math. J.* 20(95) (1970), 81-83. (M. A. Harrison) 41 #103

Tolerance in algebraic structures. *Czechoslovak Math. J.* 20(95) (1970), 179-183. (K. Wagner) 41 #5277

Le groupe des *S*-automorphismes d'un langage. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 453-458. (S. Marcus) 41 #8182

The graphs, all of whose spanning trees are isomorphic to each other. (Czech. English summary) *Časopis Pěst. Mat.* 96 (1971), 33-40. (S. Znám) 44 #3920

Some remarks on Menger's theorem. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 145-150, 212. (D. R. Lick) 44 #2660

Alternating connectivity of digraphs. (Czech summary) *Časopis Pěst. Mat.* 96 (1971), 151-163, 212. (L. V. Quintas) 44 #2671

Groups and homogeneous graphs. *Czechoslovak Math. J.* 21(96) (1971), 653-660. (J. Turner) 44 #6555

Deux problèmes sur les grammaires à un nombre d'états fini. *Rev. Roumaine Math. Pures Appl.* 16 (1971), 999-1002. (S. Ginsburg) 44 #5199

Zelinka, František

A note on the control of the solution of systems of linear algebraic equations by backward substitution. (Czech. Russian and German summaries; loose English summary) *Apl. Mat.* 13 (1968), 241-247. (H. Schwerdtfeger) 38 #5380

Zelinsky, Daniel

Berkson's theorem. *Israel J. Math.* 2 (1964), 205-209. (S. A. Amitsur) 32 #7608

(with Villamayor, O. E.) Galois theory for rings with finitely many idempotents. *Nagoya Math. J.* 27 (1966), 721-731. (A. Rosenberg) 34 #5880

(with Villamayor, O. E.) Galois theory with infinitely many idempotents. *Nagoya Math. J.* 35 (1969), 83-98. (F. DeMeyer) 39 #5555

Zelle, Karl-Günter

Symmetrien von Mannigfaltigkeiten und charakteristische Zahlen. *Bonn. Math. Schr. No.* 22 (1964), viii + 93 *pp.* (P. E. Conner) 31 #5218

Zeller, Karl L.

(with Lorentz, G. G.) Abschnittslimitierbarkeit und der Satz von Hardy-Bohr. *Arch. Math.* 15 (1964), 208-213. (J. D. Buckholtz) 29 #5016

(with Ehlich, H.) Schwankung von Polynomen zwischen Gitterpunkten. *Math. Z.* 86 (1964), 41-44. (L. Leindler) 29 #6227

(with Lorentz, G. G.) Summation of sequences and summation of series. *Proc. Amer. Math. Soc.* 15 (1964), 743-746. (B. E. Rhoades) 29 #2569

(with Ehlich, Hartmut) Numerische Abschätzung von Polynomen *Z. Angew. Math. Mech.* 45 (1965), T20-T22. (J. G. Herriot) 34 #6394

(with Ehlich, H.) Auswertung der Normen von Interpolationsoperatoren. *Math. Ann.* 164 (1966), 105-112. (J. L. Ullman) 33 #3005

(with Ehlich, Hartmut) Čebyšev-Polynome in mehreren Veränderlichen. *Math. Z.* 93 (1966), 142-143. (G. Meinardus) 33 #6228

(with Niethammer, W.) Unendliche Gleichungssysteme mit beliebiger rechter Seite. *Math. Z.* 96 (1967), 1-6. (G. M. Petersen) 34 #6536

(with Reimer, M.) Abschätzung der Teilsummen reeller Polynome. *Math. Z.* 99 (1967), 101-104. (John Todd) 35 #6338

(with Stetter, F.) Fehleruntersuchungen für das gewöhnliche Runge-Kutta-Verfahren. *Math. Z.* 98 (1967), 179-184. (R. F Albrecht) 35 #6372

(with Lorentz, G. G.) Degree of approximation by monotone polynomials. I. *J. Approximation Theory* 1 (1968), 501-504. (L. Leindler) 39 #699

(with Beekmann, W.) Singularitäten stetiger analytischer Funktionen. *Math. Z.* 104 (1968), 59-64. (V. Ganapathy Iyer) 37 #387

(with Locher, Franz) Approximationsgüte und numerische Integration. *Math. Z.* 104 (1968), 249-251. (J. W. Schmidt) 37 #2444

(with Meyer-König, W.) Vergleich des Taylorschen Summierungs verfahrens mit zeilenfiniten Verfahren. *Publ. Ramanujan Inst. No.* 1 (1968/69), 183-187. (K. Endl) 43 #7814

(with Pittnauer, F.) Analytische Funktionen mit vorgeschrie enen Grenzableitungen. *Studia Math.* 31 (1968), 153-158. (D. C. Benson) 40 #2886

Runge-Kutts-Approximationen. *Abstract Spaces and Approximati (Proc. Conf., Oberwolfach,* 1968*), pp.* 365-366. *Birkhäuser, Basel,* 1969. (Editors) 41 #2931

(with Meyer-König, W.) Matrixtransformationen mit voller Reichweite. *Enseignement Math.* (2) 15 (1969), 233-235. (M. S. Ramanujan) 40 #3114

(with Lorentz, G. G.) Degree of approximation by monotone polynomials. II. *J. Approximation Theory* 2 (1969), 265-269. (L. Leindler) 39 #5991

(with Lorentz, George G.) Gleichmässige Approximation durch monotone Polynome. *Math. Z.* 109 (1969), 87-91. (S. I. Drobnies 39 #3189

* (with Beekmann, W.) Theorie der Limitierungsverfahren. Zweite, erweiterte und verbesserte Auflage. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 15. *Springer-Verlag, Berlin-New York,* 1970. xii + 314 *pp.* (From the foreword to the second edition) 41 #8863

(with Meyer-König, Werner) Kronecker-Ausdruck und Kreisverfahren der Limitierungstheorie. *Math. Z.* 114 (1970), 300-302. (W. Beekmann) 41 #7334

(with Locher, Franz) Divergenz bei Quadraturverfahren. *Math. Z.* 117 (1970), 18-20. (R. E. Barnhill) 43 #790; errata, 44, p. 1631

(with Lorentz, G. G.) Monotone approximation by algebraic polynomials. *Trans. Amer. Math. Soc.* 149 (1970), 1-18. (E. W. Cheney) 44 #3060

Zeller-Meier, Georges

Produits croisés d'une C^*-algèbre par un groupe d'automorphismes. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A20-A23. (J. Glimm) 33 #7877

Représentations fidèles des produits croisés. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A679-A682. (J. Ernest) 35 #4742

Sur les automorphismes des algèbres de Banach. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1131-A1132. (W. Żelazko) 35 #3443

Produits croisés d'une C^*-algèbre par un groupe d'automorphismes. *J. Math. Pures Appl.* (9) 47 (1968), 101-239. (B. Russo) 39 #3329

Deux autres facteurs de type II_1. *Invent. Math.* 7 (1969), 235-242. (Z. Takeda) 40 #1788

Zellner, Arnold

(with Hooper, John W.) The error of forecast for multivariat regression models. *Econometrica* 29 (1961), 544-555. (Authors' summary) 30 #5427

(with Theil, H.) Three-stage least squares: simultaneous estimation of simultaneous equations. *Econometrica* 30 (1962), 54-78. (S. Malmquist) 31 #4122

(with Tiao, George C.) Bayes's theorem and the use of prior knowledge in regression analysis. *Biometrika* 51 (1964), 219-230. (D. V. Lindley) 35 #2427 (with Tiao, George C.) Bayesian analysis of the regression model with autocorrelated errors. *J. Amer. Statist. Assoc.* 59 (1964), 763-778. (I. R. Savage) 29 #4159

(with Tiao, George C.) On the Bayesian estimation of multivariate regression. *J. Roy. Statist. Soc. Ser. B* 26 (1964), 277-285. (S. W. Nash) 31 #1743

(with Lee, Tong Hun) Joint estimation of relationships involving descrete random variables. *Econometrica* 33 (1965), 382-394. (S. Addelman) 31 #2791

(with Chetty, V. Karuppan) Prediction and decision problems in regression models from the Bayesian point of view. *J. Amer. Statist. Assoc.* 60 (1965), 608-616. (G. Tintner) 32 #566

(with Lee, T. C.; Judge, G. G.) Maximum likelihood and Bayesian estimation of transition probabilities. *J. Amer. Statist. Assoc.* 63 (1968), 1162-1179. (From the authors' summary) 38 #3963

lmanowitz, Julius Martin

Endomorphism rings of torsionless modules. *J. Algebra* 5 (1967), 325-341. (R. E. Peinado) 34 #2626

A shorter proof of Goldie's theorem. *Canad. Math. Bull.* 12 (1969), 597-602. (M. Djabali) 40 #7297

(with Ware, R.) Simple endomorphism rings. *Amer. Math. Monthly* 77 (1970), 987-989. (A. Mader) 42 #3070

(with Ware, R.) The Jacobson radical of the endomorphism ring of a projective module. *Proc. Amer. Math. Soc.* 26 (1970), 15-20. (J. Luh) 41 #6891

Commutative endomorphism rings. *Canad. J. Math.* 23 (1971), 69-76. (G. Michler) 43 #4862

Injective hulls of torsion free modules. *Canad. J. Math.* 23 (1971), 1094-1101. (G. Krause) 44 #6755

Regular modules. *Trans. Amer. Math. Soc.* 163 (1972), 341-355. (Z. Papp) 44 #4050

l′manzon, M. E.

On groups, all of whose subgroups are metabelian. (Russian) *Ukrain. Mat. Z.* 17 (1965), *no.* 3, 67-73. (F. Haimo) 34 #1395

lmer, G.

(with Sion, M.) On quasi-metrizability. *Canad. J. Math.* 19 (1967), 1243-1249. (B. Fitzpatrick, Jr.) 36 #4522

(E, r, α, β) summability and applications. *Arch. Rational Mech. Anal.* 35 (1969), 211-219. (J. G. Herriot) 40 #3115

lmer, Violeta

Pseudogroups. (Romanian. Russian and French summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I (N.S.)* 9 (1963), 323-356. (Author's summary) 32 #154

Pseudogroups and pseudorings. *Mathematica (Cluj)* 5(28) (1963), 137-172. (H. H. Campaigne) 31 #2346

Pseudogroups and pseudorings. II. *Mathematica (Cluj)* 5(28) (1963), 321-342. (H. H. Campaigne) 31 #2347

Un analogue de l'algèbre Booléenne. *Mathematica (Cluj)* 10(33) (1968), 391-400. (R. A. Melter) 39 #4069

lnorovič, V. A.

Representation of spinors in an n-dimensional space by systems of tensors. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 255-258. (M. Kucharzewski) 34 #5013

lobenko, D. P.

Harmonic analysis of functions on semisimple Lie groups. I. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 27 (1963), 1343-1394. T. S. Bhanu Murthy) 31 #2353

On the theory of representations of complex and real Lie groups. (Russian) *Trudy Moskov. Mat. Obšč.* 12 (1963), 53-98. (W. T. van Est) 29 #2330

On infinitely differentiable vectors in the theory of representations. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1965, *no.* 1, 3-10. (J. M. G. Fell) 32 #5792

The structure of elementary representations of a semisimple complex Lie group. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1009-1012. (M. Sugiura) 35 #302

Operational calculus and theorems of Paley-Wiener type for a semi-simple complex Lie group. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1243-1246. (J. M. G. Fell) 34 #7728

(with Naĭmark, M. A.) Description of completely irreducible representations of a semi-simple complex Lie group. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 25-28. (M. Sugiura) 35 #1715

An analog of the Cartan-Weyl theory for infinite-dimensional representations of a semi-simple complex Lie group. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 24-27. (R. G. Laha) 35 #5553

The analysis of irreducibility in the class of elementary representations of a semisimple complex Lie group. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 108-133. (A. J. Coleman) 37 #2906

* Классификация неприводимых представлений полупростой комплексной группы Ли. (Russian) [Classification of irreducible representations of a semisimple complex Lie group] *Akad. Nauk Ukrain. SSR Inst. Teoret. Fiz., Kiev,* 1967. 26 *pp.* (M. Havlíček) 42 #424

Symmetry in the class of elementary representations of a semisimple complex Lie group. (Russian) *Funkcional. Anal. i Priložen.* 1 (1967), *no.* 2, 15-38. (J. M. G. Fell) 36 #2743

Operational calculus on a semisimple complex Lie group. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 931-973. (J. M. G. Fell) 41 #7028

Harmonic analysis of functions on semisimple Lie groups. II. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 1255-1295. (R. Goodman) 41 #8594

The irreducible representations of class 0 of a semisimple complex Lie group. (Russian) *Funkcional. Anal. i Priložen.* 4 (1970), *no.* 2, 85-86. (J. M. G. Fell) 42 #7832

(with Naĭmark, M. A.) A description of the completely irreducible representations of a semisimple complex Lie group. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 34 (1970), 57-82. (R. Goodman) 42 #1949

A classification of the extremally irreducible and normally irreducible representations of a semisimple complex connected Lie group. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 35 (1971), 573-599. (H. Moscovici) 44 #6911

Zel′tin, A. I.

(with Boldinskiĭ, G. I.) On the integration of Lagrange's equations of the second kind in certain special cases. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 1964, *no.* 6, 20-26. 30 #2717

Želudev, I. S.

Cubic and ultimate groups of complete symmetry. *Proc. Indian Acad. Sci. Sect. A* 59 (1964), 191-202. (Author's summary) 29 #1264

Axial tensors of the third rank and the physical effects they describe. *Kristallografija* 9 (1964), 501-505 *(Russian); translated as Soviet Physics Cryst.* 9 (1965), 418-420. (P. W. Higgs) 31 #5637

Želudev, V. A.

The eigenvalues of a perturbed Schrödinger operator with periodic potential. (Russian) *Problems of Mathematical Physics, No.* 2, *Spectral Theory, Diffraction Problems (Russian), pp.* 108-123. *Izdat. Leningrad. Univ., Leningrad,* 1967. (E. Gerlach) 38 #2367

The perturbation of a periodic Schrödinger operator by a decreasing potential. (Russian. English summary) *Vestnik Leningrad. Univ.* 23 (1968), *no.* 7, 144-145. (R. C. Gilbert) 38 #5060

The perturbation of the spectrum of the one-dimensional selfadjoint Schrödinger operator with periodic potential. (Russian) *Problems of Mathematical Physics, No.* 4: *Spectral Theory. Wave Processes (Russian), pp.* 61-82 *(errata) Izdat. Leningrad. Univ., Leningrad,* 1970. (S. T. Kuroda) 44 #5542

Zemach, Charles

Phase-shift equations for many-channel problems. (Italian summary) *Nuovo Cimento* (10) 33 (1964), 939-947. (F. Calogero) 32 #3523

(with Zachariasen, F.) Parity conservation and bootstraps. *Phys. Rev.* (2) 138 (1965), B441-B445. (E. Abers) 33 #1066

Use of angular-momentum tensors. *Phys. Rev.* (2) 140 (1965), B97-B108. (R. Gatto) 33 #2260

Determination of the spins and parities of resonances. *Phys. Rev.* (2) 140 (1965), B109-B126. 33 #2261

(with Schwartz, Charles) Theory and calculation of scattering with the Bethe-Salpeter equation. *Phys. Rev.* (2) 141 (1966), 1454-1467. (B. A. Lippmann) 33 #2166

Zemach, Rita

(with Seiden, Esther) On orthogonal arrays. *Ann. Math. Statist.* 37 (1966), 1355-1370. (J. Kiefer) 33 #5061

Zeman, J. Jay

Bases for S4 and S4.2 without added axioms. *Notre Dame J. Formal Logic* 4 (1963), 227-230. (E. J. Lemmon) 29 #4685

A system of implicit quantification. *J. Symbolic Logic* 32 (1967), 480-504. (J. Drabbe) 37 #1225

The deduction theorem in S4, S4.2, and S5. *Notre Dame J. Foraml Logic* 8 (1967), 56-60. (F. R. Drake) 38 #4291

Some calculi with strong negation primitive. *J. Symbolic Logic* 33 (1968), 97-100. (R. A. Bull) 38 #3140

Lemmon-style bases for the systems $S1^{\circ}$-$S4^{\circ}$. *J. Symbolic Logic* 33 (1968), 458-461. (From the author's summary) 38 #989

The semisubstitutivity of strict implication. *J. Symbolic Logic* 33 (1968), 462-464. 38 #990

The propositional calculus MC and its modal analog. *Notre Dame J. Formal Logic* 9 (1968), 294-298. (M. E. Dummett) 41 #1515

Decision procedures for $S3^{0}$ and $S4^{0}$. *Arch. Math. Logik Grundlagenforsch.* 12 (1969), 155-158. (From the author's text) 43 #4645

Modal systems in which necessity is "factorable". *Notre Dame J. Foraml Logic* 10 (1969), 247-256. (M. J. Cresswell) 40 #1268

Complete modalization in S4.4 and S4.0.4. *Notre Dame J. Foraml Logic* 10 (1969), 257-260. (M. J. Cresswell) 40 #1269

Zeman, J. L.

Örtlich und zeitlich zufällig verteilte Temperatur- und Spannungsfelder. I. (English summary) *Acta Mech.* 1 (1965), 194-211. (H. Parkus) 32 #3373

Zemanek, Janice Rose

On the semisimplicity of integral representation rings. *Bull. Amer. Math. Soc.* 76 (1970), 778-779. (K. W. Roggenkamp) 42 #4652

Nilpotent elements in representation rings. *J. Algebra* 19 (1971), 453-469. (T. V. Fossum) 44 #6864

Zemánek, Jaroslav

Nowhere dense set which is finitely open. *Comment. Math. Univ. Carolinae* 11 (1970), 83-89. (R. H. Cox) 41 #5944

Zemanian, Armen H.

The time-domain synthesis of distributions. *IEEE Trans. Circuit Theory* CT-11 (1964), 487-493. (Author's summary) 30 #4153

* Distribution theory and transform analysis. Ann introduction to generalized functions, with applications. *McGraw-Hill Book Co., New York-Toronto-London-Sydney,* 1965. xviii + 371 *pp.* (G. Marinescu) 31 #1556

A characterization of the inverse Laplace transforms of rational politive-real matrices. *J. Soc. Indust. Appl. Math.* 13 (1965), 463-468. (V. P. Mainra) 31 #3795

(with König, Heinz) Necessary and sufficient conditions for a matrix distribution to have a positive-real Laplace transform. *J. Soc. Indust. Appl. Math.* 13 (1965), 1036-1040. (V. P. Mainra) 32 #6154

The convolution transformation of certain generalized functions and its inversion. *Bull. Amer. Math. Soc.* 72 (1966), 725-727. (I. I. Hirschman, Jr.) 33 #1660

Some convergence properties of exponential series expansions of distributions. *J. Math. Anal. Appl.* 13 (1966), 195-204. (U. D'Ambrosio) 32 #6216

Orthonormal series expansions of certain distributions and distributional transform calculus. *J. Math. Anal. Appl.* 14 (1966), 263-275. (J. Horváth) 35 #2141

The distributional Laplace and Mellin transformations. *SIAM J. Appl. Math.* 14 (1966), 41-59. (J. L. B. Cooper) 32 #8052 (E)

Inversion formulas for the distributional Laplace transformation. *SIAM J. Appl. Math.* 14 (1966), 159-166. (J. L. B. Cooper) 32 #8053

A distributional Hankel transformation. *SIAM J. Appl. Math.* 14 (1966), 561-576. (J. Horváth) 34 #1807

The Hankel transformation of certain distributions of rapid growth. *SIAM J. Appl. Math.* 14 (1966), 678-690. (J. Horváth) 35 #2093

A distributional *K* transformation. *SIAM J. Appl. Math.* 14 (1966), 1350-1365; *errata, ibid.* 15 (1967), 765. (J. Horváth) 35 #2094

Some Abelian theorems for the distributional Hankel and *K* transformations. *SIAM J. Appl. Math.* 14 (1966), 1255-1265. (J. Horváth) 35 #2095

The Weierstrass transformation of certain generalized functions. *Bull. Amer. Math. Soc.* 73 (1967), 682-684. (J. L. B. Cooper) 35 #4687

Hankel transforms of arbitrary order. *Duke Math. J.* 34 (1967), 761-769. (M. Dostál) 36 #6883

Errata: "The distributional Laplace and Mellin transformations". *SIAM J. Appl. Math.* 15 (1967), 227. (Editors) 34 #8102

A generalized convolution transformation. *SIAM J. Appl. Math.* 15 (1967), 324-346. (I. I. Hirschman, Jr.) 35 #4681

A generalized Weierstrass transformation. Sympos. Applications of Generalized Functions (Stony Brook, N. Y., 1966). *SIAM J. Appl. Math.* 15 (1967), 1088-1105. (I. Fenyő) 36 #1927

A solution of a division problem arising from Bessel-type differential equations. Sympos. Applications of Generalized Functions (Stony Brook, N. Y., 1966). *SIAM J. Appl. Math.* 15 (1967), 1106-1111. (J. L. B. Cooper) 36 #4280

(with Tewarson, R. P.) The numerical evaluation of distributional transforms. *SIAM J. Numer. Anal.* 4 (1967), 271-282. (Z. Ditzian) 38 #533

The postulational foundations of linear systems. *J. Math. Anal. Appl.* 24 (1968), 409-429. (G. Doetsch) 38 #1954

(with Pandey, J. N.) Complex inversion for the generalized convolution transformation. *Pacific J. Math.* 25 (1968), 147-157. (I. I. Hirschman, Jr.) 37 #3284

(with Pandey, J. N.) An extension of Tanno's form of the convolution transformation. *Tôhoku Math. J.* (2) 20 (1968), 425-430. (Z. Ditzian) 39 #4667

Zemba, S. See Ziemba, Stefan.

Zemljanoĭ, M. I.

On certain algorithms not realizable in an alphabet. (Russian) *Cybernet. Comput. Tech. (Russian), pp.* 104-109. *Naukova Dumka, Kiev,* 1964. (A. A. Mullin) 32 #9175

Zemmer, Joseph L., Jr.

Near-fields, planar and non-planar. *Math. Student* 32 (1964), 145-150. (H. Minc) 31 #5888

On a class of doubly transitive groups. *Math. Student* 32 (1964), 155-156. (H. Busemann) 31 #2312

(with Wilke, F. W.) Some new finite translation planes. *Trans. Amer. Math. Soc.* 131 (1968), 378-397. (D. A. Foulser) 36 #7021

The additive group of an infinite near-field is Abelian. *J. London Math. Soc.* 44 (1969), 65-67. (B. H. Neumann) 38 #228

(with Narayana Rao, M. L.) A question of Foulser on λ-syste of characteristic two. *Proc. Amer. Math. Soc.* 21 (1969), 373-378. (D. A. Foulser) 39 #2062

(with Narayana Rao, M. L.; Rodabaugh, D. J.; Wilke, F. W.) A new class of finite translation planes obtained from the exceptional near-fields. *J. Combinatorial Theory Ser. A* 11 (1971), 72-92. (P. J. Lorimer) 43 #5408

Zener, Clarence

* (with Duffin, Richard J.; Peterson, Elmor L.) Geometric programming: Theory and application. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. xi + 278 *pp.* (R. L. Graves) 35 #5225

Zenf, P.

Ergodic groups of automorphisms of Boolean algebras. (Russia English summary) *Vestnik Leningrad. Univ.* 1971, *no.* 13, 49-53. (Z. Semadeni) 44 #6571

Zenga, M.

Schema di prove ripetute "senza rimessa" a due variabili ed a due alternative per ciascuna variabile. (English summary) *Calcolo* 5 (1968), 83-112. 42 #7024

Zenger, Christoph

On convexity properties of the Bauer field of values of a matrix. *Numer. Math.* 12 (1968), 96-105. (H. Schwerdtfeger) 38 #1112

Zeng Ken-cheng. See Tseng K'en-ch'eng.

Ženíšek, Alexander

A note on the use of integral equations in the theory of diffraction. (Russian summary) *Spisy Přírod. Fak. Univ. Brno* 1967, 517-524. (W. H. Schoendorf) 39 #3757

Convex sets in linear spaces. *Portugal. Math.* 27 (1968), 55-62. (W. E. Bonnice) 42 #8239

Convergence of the finite element method for boundary value problems of a system of elliptic equations. (Czech. English summary) *Apl. Mat.* 14 (1969), 355-377. (K. Hawlitschek) 39 #7284

(with Zlámal, Miloš) Convergence of a finite element procedure for solving boundary value problems of the fourth order. *Internat. J. Numer. Methods Engrg.* 2 (1970), 307-310. (M. N. L. Narasimhan) 44 #1246

Interpolation polynomials on the triangle. *Numer. Math.* 15 (1970), 283-296. (R. B. Simpson) 43 #772

Zenkin, O. V.

Some remarks on the actual realization of the method of simpl iteration. (Russian) *Cybernet. Comput. Techn. (Russian), pp.* 163-171. *Naukova Dumka, Kiev,* 1964. (B. Kellogg) 32 #6644

On the relation between the algorithms for constructing solutions of certain equations of parabolic and elliptic types. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1964, 23-26. (T. Leser) 29 #4207

Some remarks on the stability of iteration processes. (Russiar *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 745-748. (L. B. Rall) 29 #6648

On the real stability of the algorithms A_{um}^{Π} and A_{um}^{Γ}. (Russia *First Republ. Math. Conf. of Young Researchers, Part I (Russian), pp.* 258-267. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. (M. L. Juncosa) 33 #6862

New classes of formulae that are suitable for the analytic description of geometric figures. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part I (Russian), pp.* 56-61. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1967. (J. Kateřiňák) 43 #1024

The analytic description of shells of complicated geometric form. (Russian) *Gidroaèromeh. i Teor. Uprugosti Vyp.* 8 (1968), 84-91. (H. Weber) 44 #3174

Certain analogies between iteration processes and difference schemes. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications Part II (Russian), pp.* 16-20. *Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (W. S. Loud) 43 #4265

New formulae suitable for the analytic description of geometri figures. (Russian) *Ukraïn. Mat. Ž.* 22 (1970), 361-364. (P. Neumann) 42 #2798

Zen'kovič, Ja. I. Sekerž. See Sekerž-Zen'kovič, Ja. I.

Zen'kovskaia, S. M. See Zen'kovskaja, S. M.

Zen'kovskaja, S. M.

The stability of a periodic solution of the Navier-Stokes equation. *Prikl. Mat. Meh.* 31 (1967), 124-130 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 130-136. (D. R. Smith) 36 #1813

Bifurcation in the problem of convection under vibrational forces. (Russian) *Mathematical Analysis and its Applications (Russian), pp.* 91-99. *Izdat. Rostov. Univ., Rostov-na-Donu,* 1969. (Simona Popp) 44 #7833 no of Elea

(See Joja, Ath., 38 #5550)

nor, Phillip

On countable paracompactness and normality. *Prace Mat.* 13 (1969), 23-32. (J. N. Younglove) 40 #1975

A note on Z-mappings and WZ-mappings. *Proc. Amer. Math. Soc.* 23 (1969), 273-275. (Z. Frolík) 40 #1976

Realcompactifications with projective spectra. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 153-156. (P. Nanzetta) 43 #8052

Extending completely regular spaces with inverse limits. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 5(25) (1970), 157-162. (A. W. Hager) 43 #1128

A class of countably paracompact spaces. *Proc. Amer. Math. Soc.* 24 (1970), 258-262. (E. P. Rozycki) 41 #1005

On the completeness of the space of compact subsets. *Proc. Amer. Math. Soc.* 26 (1970), 190-192. (P. S. Schnare) 41 #6151

Countable paracompactness in product spaces. *Proc. Amer. Math. Soc.* 30 (1971), 199-201. (C. E. Aull) 43 #5490

pić, Alfred

Raumkurve V. Ordnung vom Geschlecht Null II. Art. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 2(22) (1967), 119-122. (H. Brauner) 36 #5799

ragija, D. P.

On the solution of the Dirichlet problem for certain non-linear equations of elliptic type. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 31 (1963), 9-14. (G. Geymonat) 32 #6056

On the existence of proper elements of a certain class of nonlinear equations. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 41 (1966), 27-31. (R. K. Juberg) 35 #4778

Characteristic numbers and eigenelements of a class of potential operators depending quadratically on a parameter. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1966, *no.* 5 (110), 3-9. (S. Burýšek) 34 #8246

The bifurcation points of a certain class of nonlinear equations. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 52 (1968), 583-588. (T. Kusano) 40 #6319

On the problem of the branching of the solutions of a certain class of nonlinear equations. (Russian. Georgian and English summaries) *Gamoqeneb. Math. Inst. Sem. Moḫsen. Anotacie. Vyp.* 3 (1970), 45-48. (M. Ráb) 43 #7702

eragija, P. K.

Solution of a non-linear integro-differential equation by the method of upper and lower functions. (Russian. Georgian summary) *Soobšč. Akad. Nauk Gruzin. SSR* 34 (1964), 3-10. (H. P. Thielman) 29 #1516

The uniqueness of the solution of the Cauchy-Dirichlet problem for a nonlinear equation of parabolic type. (Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1967, *no.* 2 (114), 3-7. 38 #3600

erakidze, Z. S.

The consistency of best and pseudo-best estimates. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 544-547. (R. M. Dudley) 43 #5677

erilli, Frank J.

Tensor harmonics in canonical form for gravitational radiation and other applications. *J. Mathematical Phys.* 11 (1970), 2203-2208. (A. H. Klotz) 42 #5580

erla, Fredric

Iterative higher derivations in fields of prime characteristic. *Michigan Math. J.* 15 (1968), 407-415. (J. J. Etayo) 39 #185

erna, W.

* (with Green, A. E.) Theoretical elasticity. Second edition. *Clarendon Press, Oxford,* 1968. xv + 457 *pp.* (M. W. Johnson, Jr.) 39 #6557

ernak, A. N.

The reduction of a system of difference equations with periodic coefficients. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 7 (86), 48-53. (I. M. Sheffer) 40 #583

A certain method of determining the stability of numerical integration methods for equations with periodic coefficients. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 230-232. (H. J. Stetter) 42 #8710

erner, Martin

Sur les singularites des distributions vérifiant une équation aux dérivées partielles à coefficients analytiques. *Les Equations aux Dérivées Partielles (Paris, 1962), pp.* 219-222. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1963. (H. Morel) 30 #4053

Solutions singulières d'équations aux dérivées partielles. *Bull. Soc. Math. France* 91 (1963), 203-226. (S. Mizohata) 29 #6150

Intégration dans les espaces vectoriels de dimension infinie. Rédigé par J. Ginibre. *Cargèse Lectures in Theoretical Physics: Application of Mathematics to Problems in Theoretical Physics (Cargèse, 1965), pp.* 171-208. *Gordon and Breach Science Publ. New York,* 1967. (R. D. Ryan) 37 #2938

Développement en séries de polynômes orthonormaux des fonctions indéfiniment différentiables. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A218-A220. (B. S. Mitjagin) 40 #717

Zernyškina, L. A.

On curvilinear congruences. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 176 (1964), 91-101. (B. Cenkl) 33 #644

One-parameter family of curves. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 181 (1965), *vyp.* 5, 83-89. (Z. Nádeník) 34 #696

Certain submanifolds of congruences of helices. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 181 (1965), *vyp.* 5, 90-96. (Z. Nádeník) 34 #697

Submanifolds of the congruence of spirals connected with certain invariant surfaces. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 191 (1967), 135-139. (Z. Nádeník) 36 #3249

Zervos, Spiros P.

* Aspects modernes de la localisation des zéros des polynômes d'une variable. Thèses présentées à la Faculté des Sciences de l'Université de Paris; 2^{e} Thèse: Propositions données par la Faculté. *Gauthier-Villars & C^{ie}, Paris,* 1960. 115 *pp.* (Editors) 31 #315

Une propriété des corps commutatifs de caractéristique zéro. (Greek summary) *Prakt. Akad. Athēnōn* 36 (1961), 139-143. (I. Barsotti) 31 #3413

Structures fonctionnelles et homomorphismes. *C. R. Acad. Sci. Paris* 260 (1965), 3809-3812. (G. Grätzer) 30 #4707

Une géneralisation du théorème de Bolzano pour la connexité. *C. R. Acad. Sci. Paris* 260 (1965), 5979-5982. (B. J. Ball) 31 #2704

Une généralisation abstraite du théorème topologique de Weierstrass pour la préservation de la quasicompacité; une notion de dimension de quasi-compacité. *C. R. Acad. Sci. Paris* 260 (1965), 6781-6784. (B. J. Ball) 31 #4002

Une notion abstraite de dimension. *C. R. Acad. Sci. Paris* 261 (1965), 859-862. (L. Gillman) 33 #4898

Sur la dérivation d'une suite de fonctions réelles. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A457-A460. (A. M. Bruckner) 36 #5275

Zet, G.

(with Gottlieb, J.; Latu, M.) Tensor integral and exterior derivative in parallelizable spaces. (Romanian summary) *An. Şti Univ. "Al. I. Cuza" Iaşi Sect. I a Mat. (N.S.)* 15 (1969), 457-462. (S. Gołąb) 41 #9126

Zetbaeva, M. P.

(with Loktionov, A. A.) An analysis of the reliability of logical schemes. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 2, 31-41. (I. Cederbaum) 41 #8176

Zetterberg, Lars-Henning

(with Reed, I. S.) Communication with orthogonal polyphase signals over a noisy channel with Doppler frequency shift. *IEEE Trans. Comm. Tech.* COM-12 (1964), 116-118. (R. A. Scholtz) 31 #4643

A class of codes for polyphase signals on a bandlimited Gaussian channel. *IEEE Trans. Information Theory* IT-11 (1965), 385-395. (I. M. Chakravarti) 32 #5455

Signal design with polyphase signals and polynomial codes. *Trans. Fourth Prague Conf. on Information Theory, Statistical Decision Functions, Random Processes (Prague,* 1965*), pp.* 707-725. *Academia, Prague,* 1967. (T. Kailath) 38 #1942

Estimation of parameters for a linear difference equation with application to EEG analysis. *Math. Biosci.* 5 (1969), 227-275. (M. F. Neuts) 40 #6976

Zetterström, H.-O.

(with Lindström, B.) A combinatorial problem in the *k*-adic number system. *Proc. Amer. Math. Soc.* 18 (1967), 166-170. (G. F. Clements) 34 #7383

Zettl, Anton

Adjoint linear differential operators. *Proc. Amer. Math. Soc.* 16 (1965), 1239-1241. (C. A. Swanson) 32 #1396

(with Coddington, E. A.) Hermitian and anti-hermitian properties of Green's matrices. *Pacific J. Math.* 18 (1966), 451-454. (C. R. Putnam) 33 #5993

The lack of self-adjointness in three point boundary value problems. *Proc. Amer. Math. Soc.* 17 (1966), 368-371. (W. E. Boyce) 32 #7835

Some identities related to Pólya's property *W* for linear differential equations. *Proc. Amer. Math. Soc.* 18 (1967), 992-994. (H. Minc) 36 #5422

Adjoint and self-adjoint boundary value problems with interface conditions. *SIAM J. Appl. Math.* 16 (1968), 851-859. (A. M. Krall) 38 #2368

Adjointness in nonadjoint boundary value problems. *SIAM J. Appl. Math.* 17 (1969), 1268-1279. (W. E. Boyce) 41 #3871

Square integrable solutions of $Ly = f(t, y)$. *Proc. Amer. Math. Soc.* 26 (1970), 635-639. (D. Willett) 42 #2115

Factorization of differential operators. *Proc. Amer. Math. Soc.* 27 (1971), 425-426. (C. Carton-Lebrun) 42 #7966

Zettl, G.

Ein Verfahren zum Minimieren einer Funktion bei eingeschränktem Variationsbereich der Parameter. *Numer. Math.* 15 (1970), 415-432. (E. Karst) 42 #5432

Zeuli, Tino

Un teorema di media in magnetofluidodinamica derivante dal teorema generalizzato del viriale per una massa fluida di conduttività elettrica infinita soggetta alla propria gravitazione. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 97 (1962/63), 1245-1253. (B. Bertotti) 29 #4405

Sulle superficie d'onda in un fluido di alta conduttività elettrica generate da un campo magnetico polare. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 977-986. (H. C. Kranzer) 33 #3586

Su moti stazionari in magnetofluido-dinamica. *Magnetofluidodinamica (Centro Internaz. Mat. Estivo, 3° Ciclo, Varenna, 1962), Conferenza* 8, 10 *pp. Edizioni Cremonese, Rome,* 1964. (H. K. Moffatt) 30 #1720

Sopra alcune generalizzazioni di un teorema di Poincaré in magnetofluidodinamica. (English summary) *Atti Accad. Naz. Lincei Rend. Cl. Sci. Fis. Mat. Natur.* (8) 46 (1969), 561-568. (S. A. Berger) 42 #1403

Zeuthen, Hieronymus Georg

* Die Lehre von den Kegelschnitten im Altertum. Mit einem Vorwort und Register von J. E. Hofmann. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1965. xvi + 522 *pp.* (G. Huxley) 34 #1138

* Die Mathematik im Altertum und im Mittelalter. Biblioteca Mathematica Teubneriana, No. 14. *B. G. Teubner, Stuttgart,* 1966. iii + 95 *pp.* (Editors) 34 #4088

* Geschichte der Mathematik im 16. und 17. Jahrhundert. Biblioteca Mathematica Teubneriana, No. 13. *B. G. Teubner, Stuttgart,* 1966. viii + 434 *pp.* (Editors) 34 #4089

Zevin, A. A.

The functions of fractionally exponential operators in the theory of elasticity with hereditary effects. (Russian) *Prikladna. Meh.* 5 (1969), *vyp.* 11, 83-87. (J. Ignaczak) 44 #2403

Ževlakov, G. N.

(with Komlenko, Ju. V.; Tonkov, E. L.) Existence theorems for nonlinear boundary value problems. (Russian) *Dokl. Akad. Nauk BSSR* 10 (1966), 626-628. (P. B. Bailey) 34 #1592

(with Komlenko, Ju. V.; Tonkov, E. L.) The existence of solutions of nonlinear ordinary differential equations with linear boundary conditions. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1814-1820. (P. B. Bailey) 38 #3501

(with Pak, S. A.) Conditions for the negativity of the Green's function of a Sturm-Liouville problem for a second order linear ordinary differential equation. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1114-1119. (H. A. Lauwerier) 41 #3872

Ževlakov, K. A.

On radical ideals of an alternative ring. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 4, 87-102. (J. Wiegold) 33 #2695

Nil-radical of a Mal'cev algebra. (Russian) *Algebra i Logika Sem.* 4 (1965), *no.* 5, 67-78. (P. M. Cohn) 33 #1339

Alternative artinian rings. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 3, 11-36. (W. G. Leavitt) 34 #2645

Solvability and nilpotence of Jordan rings. (Russian) *Algebra i Logika Sem.* 5 (1966), *no.* 3, 37-58. (W. E. Coppage) 34 #7601

Remarks on simple alternative rings. (Russian. English summary) *Algebra i Logika Sem.* 6 (1967), *no.* 2, 21-33. (R. S. Pierce) 36 #2666

The lower nil-radical of alternative rings. (Russian) *Algebra i Logika* 6 (1967), *no.* 4, 11-17. (H. Heineken) 37 #1423

Nil-ideals of an alternative ring satisfying a maximal condition. (Russian) *Algebra i Logika* 6 (1967), *no.* 4, 19-26. (H. Heineken) 37 #1424

Letter to the editor. (Russian) *Algebra i Logika* 6 (1967), *no.* 4, 113-117. (Editors) 37 #1425

Alternative and Jordan rings. (Russian) *Mat. Zametki* 3 (1968), 605-611. (Editors) 37 #1426

The radicals of Kleinfeld and Smiley in alternative rings. (Russian) *Algebra i Logika* 8 (1969), *no.* 2, 176-180. (M. Slater) 41 #6928

The identity of the radicals of Smiley and Kleinfeld in alternative rings. (Russian) *Algebra i Logika* 8 (1969), 309-319. (V. D. Belousov) 42 #1874

Radicals and von Neumann ideals. (Russian) *Algebra i Logika* 8 (1969), 425-439. (M. Slater) 42 #7729

Ževlakov, U. A.

(with Bokut', L. A.; Kuz'min, E. N.) Theory of rings. (Russian) *Algebra. Topology. Geometry.* 1968 *(Russian), pp.* 9-56. *Akad. Nauk SSSR Vsesojuz. Inst. Naucn. i Tehn. Informacii, Moscow* 1970. (G. Pic) 42 #298

Ževnjak, R. M.

On the theory of observability in Banach spaces. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1516-1519. (D. Wexler) 43 #7752

Žežel', Ju. N.

The efficiency of a linear discriminant function for arbitrary distributions. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1968, *no.* 6, 124-128 *(Russian); translated as Engrg. Cybernetics* 1968, *no.* 6, 107-111 (1969). (E. S. Keeping) 42 #6995

Zezula, Rostislav

Numerische Stabilität eines Algorithmus zur Berechnung des Eigenparameters eines Matrizenoperators mit Hilfe der Reduktionsmethode und der Banachschen Iteration. Second Conf. Basic Problems of Numer. Math. (Liblice, 1967). *Apl. Mat.* 13 (1968), 211-216. (W. Sibagaki) 37 #6025

(with Bartošek, Václav) Stability of flat thermal flux in a slab reactor. (Czech and Russian summaries) *Apl. Mat.* 13 (1968), 367-375. (J. Adler) 39 #5116

Criticality conditions for a finite homogenized natural-urani fueled reactor with prescribed thermal neutron flux. (Czech summary) *Apl. Mat.* 15 (1970), 328-338. (N. D. Sengupta) 42 #8781

Zgrablich, G.

(with Marchi, Ezio) Heat conduction in hollow cylinders with radiation. *Proc. Edinburgh Math. Soc.* (2) 14 (1964/65), 159-164. (R. V. Churchill) 30 #5692

Zhang Ai-he. See Chang Ai-ho.

Zhang Chun-ting. See Chang Ch'un-t'ing.

Zhang De-rong. See Chang Te-jung.

Zhang Gong-qing. See Chang Kung-ch'ing.

Zhang Gong-zhing. See Chang Kung-ch'ing.

Zhang Guang-hou. See Chang Kuang-hou.

Zhang Guang-juan. See Chang Kuang-chuan.

Zhang Han-xin. See Chang Han-hsin.

Zhang Kai-ming. See Chang K'ai-ming.

Zhang Li-gian. See Chang Li-ch'ien.

Zhang Li-qian. See Chang Li-ch'ien.

Zhang Qing-fang. See Chang Ch'ing-fang.

Zhang Qing-yong. See Chang Ch'ing-yung.

Zhang Qing-yu. See Chang Ch'ing-yu.

Zhang Ren-wei. See Chang Jen-wei.

Zhang Si-jun. See Chang Szu-chün.

Zhang Si-ying. See Chang Szu-ying.

Zhang Su-cheng. See Chang Su-ch'eng.

Zhang Tong. See Chang T'ung.

Zhang Xiao-li. See Chang Hsiao-li.

Zhang Yang-jun. See Chang Yang-chun.

Zhang Yao-ting. See Chang Yao-t'ing.

Zhang Zhao-zhi. See Chang Chao-chih.

Zhao Fang-xiong. See Chao Fang-hsiung.

Zhao Wan-yun. See Chao Wan-yun.

Zhao Yan-da See Chao Yen-ta.

Zhao Zhong-zhe. See Chao Chung-che.

Zhdanov, M. S. See Ždanov, M. S.

Zhdanovich, W. F. See Ždanovič.

Zheleznyakov, V. V. See Železnjakov, V. V.

Zhelobenko, D. P. See Želobenko, D. P.

Zheludev, I. S. See Želudev, I. S.

en Dun-dong. See Chen Tun-tung.

en Fu. See Chen Fu.

eng Bao-long. See Cheng Pao-lung.

eng Wei-xing. See Cheng Wei-hsing.

eng Zeng-tong. See Cheng Tseng-t'ung.

en Han-lin. See Chen Han-lin.

ezhel', Yu. N. See Žežel', Ju. N.

i-Da Yan. See Yen Chih-Ta.

igulev, V. N. See Žigulev, V. N.

irnov, N. I. See Žirnov, N. I.

islin, G. M. See Žislin, G. M.

itel'zeif, E. D. See Žitel'zeĭf, E. D.

ivoglyadov, V. P. See Živogljadov, V. P.

ivotovskiy, L. A. See Životovskiĭ, L. A.

ogin, I. I. See Žogin, I. I.

ongolovich, I. D. See Žongolovič, I. D.

ong Tong-de. See Chung T'ung-te.

ong Wan-xie. See Chung Wan-hsieh.

ou Heng. See Chou Heng.

ou Lian-di. See Chou Lien-ti.

ou Long-xiang. See Chou Lung-hsiang.

ou Xue-guang. See Chou Hsüeh-kuang.

uang Qi-tai. See Chuang Ch'i-t'ai.

u Guang-tian. See Chu Kuang-t'ien.

u Ji-kang. See Chu Chi-k'ang.

uk, M. M. Bushko. See Bushko-Zhuk, M. M.

ukhovitskii, E. M. See Žuhovickiĭ, E. M.

ukhovskii, V. I. See Žukovskiĭ, V. I.

ukovskii, V. I. See Žukovskiĭ, V. I.

ulenev, S. V. See Žulenev, S. V.

ulina, Yu. V. See Žulina, Ju. V.

uravlev, V. I. See Žuravlev, V. I.

urina, M. I. See Žurina, M. I.

u Shi-jie. See Chu Shih-chieh.

u Yeng-jen. See Chu Yung-chin.

u Yong-jin. See Chu Yung-chin.

vaniya, R. M. See Žvanija, R. M.

atdinov, F. Z.

On the spectrum of a differential operator of the second order in an abstract Hilbert space. (Russian) *Volž. Mat. Sb. Vyp.* 1 (1963), 71-77. (Z. Zieležny) 34 #1888

The spectrum of a linear second-order differential operator in a Hilbert space of vector-functions with values in an abstract Hilbert space. I. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 6 (43), 46-58. (S. Zaidman) 30 #1276

The spectrum of a linear second-order differential operator in a Hilbert space of vector-functions with values in an abstract Hilbert space. II. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 2 (45), 69-76. (R. C. Gilbert) 32 #6265

On the question of the spectrum of a second order linear differential operator in a Banach space. (Russian) *Volž. Mat. Sb. Vyp.* 6 (1968), 68-74. *(errata insert)* (E. Gerlach) 44 #2095

a-ud-Din, M. See Ziaud Din, M.

aud Din, M.

Development of symmetric functional and *k*-statistics. (French summary) *Bull. Inst. Internat. Statist.* 39 (1962), *livraison* 2, 501-508. (S. W. Nash) 29 #1693

Expression of generalized *k*-statistics in terms of power-sum symmetric functions s_r's. (French summary) *Bull. Inst. Internat. Statist.* 40 (1963), 823-826. (Author's summary) 30 #2587

Žiber, A. V.

(with Šabat, A. B.) The Cauchy problem for the nonlinear Schrödinger equation. (Russian) *Differencial'nye Uravnenija* 6 (1970), 137-146. (K. Kumar) 40 #8378

Zich, Rodolfo

(with Boella, Mario) Sulla rappresentazione dei campi elettromagnetici in coordinate curvilinee ortogonali. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 97 (1962/63), 1043-1055. (D. Graffi) 29 #4409

(with Pozzolo, Vincenzo) Una dimostrazione semplice della formula per il calcolo dell'effetto di piccole perturbazioni geometriche sulla frequenza di risonanza di una cavità. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 97 (1962/63), 1056-1063. (D. Graffi) 29 #4408

(with Pozzolo, Vincenzo) Sull'applicazione del calcolo variazionale nei problemi di progettazione di strutture periodiche aperte e di particolari cavità. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 98 (1963/64), 934-946. (D. Graffi) 31 #1882

Zichichi, A.

(See Strong, electromagnetic, and weak interactions, 29 #4491)

C.E.R.N. work on weak interactions. *Proc. Roy. Soc. Ser. A* 285 (1965), 175-190. (A.C.T. Wu) 32 #882

Zickendraht, Werner

Construction of a complete orthogonal system for the quantum-mechanical three-body problem. *Ann. Physics* 35 (1965), 18-41. (G. H. Derrick) 33 #1091

Zidăroiu, Corneliu

Random decision processes with complete connections. *Rev. Roumaine Math. Pures Appl.* 15 (1970), 1113-1122. (Author's summary) 43 #8144

Zidarov, D.

* О решении некоторых обратных задач потенциальных полей и его применения к вопросам геофизики. (Russian. English summary) [The solution of certain inverse problems for potential fields, and applications of it to questions of geophysics] *Izdat. Bolgar. Akad. Nauk, Sofia,* 1968. 154 *pp. (loose errata)* (W. Kleiner) 41 #3795

Zidek, James V.

(with McGregor, J. R.) Limiting distributions of response probabilities. *Ann. Math. Statist.* 36 (1965), 706-707. (H. P. Edmundson) 30 #2947

(with McGregor, J. R.) A sequence of limiting distributions of response probabilities. *Psychometrika* 30 (1965), 491-497. (J. L. Snell) 34 #3655

A representation of Bayes invariant procedures in terms of Haar measure. *Ann. Inst. Statist. Math.* 21 (1969), 291-308. (Author's summary) 39 #7735

Inadmissibility of the best invariant estimator of extreme quantiles of the normal law under squared error loss. *Ann. Math. Statist.* 40 (1969), 1801-1808. (R. H. Farrell) 41 #6354

(with Narayana, T. V.) Contributions to the theory of tournaments. II. Statistical inference in random tournaments. *Rev. Roumaine Math. Pures Appl.* 14 (1969), 1563-1576. (Authors' summary) 41 #1390

Sufficient conditions for the admissibility under squared errors loss of formal Bayes estimators. *Ann. Math. Statist.* 41 (1970), 446-456. (D. S. Adorno) 41 #6355

Inadmissibility of a class of estimators of a normal quantile. *Ann. Math. Statist.* 42 (1971), 1444-1447. 44 #4840

Zidenberg, H.

(with Semadeni, Z.) Inductive and inverse limits in the category of Banach spaces. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 579-583. (J. R. Isbell) 33 #3080

(with Semadeni, A.) On preordered topological spaces and increasing semicontinuous functions. *Prace Mat.* 11 (1968), 313-316. (L. E. Ward, Jr.) 37 #2191

On monotonically normal spaces. *Prace Mat.* 12 (1968), 75-79. (L. E. Ward, Jr.) 38 #5180

Židkov, E. P.

(with Širikov, V. P.) A boundary-value problem for ordinary differential equations of second order. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 804-816. (Z. Nehari) 31 #427

(with Širikov, V. P.; Puzynin, I. V.) The Cauchy problem and the boundary value problem for a certain nonlinear ordinary differential equation of second order. (Russian) *Proc. Conf. Math. Methods of Solution of Problems in Nuclear Phys. (Russian),* pp. 13-18. *Ob"edin. Inst. Jadernyh Issled., Dubna,* 1965. (Z. Nehari) 35 #457

(with Puzynin, I. V.) Solution of boundary value problems for nonlinear ordinary differential equations of the second degree by the method of stabilization. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 271-273. (P. B. Bailey) 35 #3139 (with Puzynin, I. V.) A method of introducing a parameter in the solution of boundary value problems for second order nonlinear ordinary differential equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 1086-1095. (P. B. Bailey) 36 #3512

(with Puzynin, I. V.) An application of the continuous analog of Newton's method to the approximate solution of a certain nonlinear boundary value problem. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 18-21. (E. L. Albasiny) 38 #871

(with Ososkov, G. A.) The solution of nonlinear integral equations through the introduction of a continuous parameter. (Russian) *Dokl. Akad. Nauk SSSR* 180 (1968), 1279-1282. (V. Barbu) 37 #5637

(with Makarenko, G. I.) Solution of the Dirichlet problem for a nonlinear elliptic equation by the introduction of a continuous parameter. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 723-725. (L. Arkeryd) 40 #4596

(with Puzynin, I. V.) Solution of a certain nonlinear discrete boundary value problem by means of the continuous analogue of Newton's method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 442-447. (M. Zlámal) 40 #5145

(with Ryl'ceva, T. V.; Feoktistov, B. F.) A method of solving boundary value problems for nonlinear differential equations that describe the motion of charged particles in magnetic accelerator fields. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1199-1209. (F. M. Pascal) 44 #2355

Židkov, G. V.

Constructive characteristic of a certain class of non-periodic functions. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 1002-1005. (G. G. Lorentz) 34 #1764

A harmonic function in an ellipsoid of rotation. (Russian. English summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 69-77. (D. A. Lee) 35 #5649

The averaged classes H and $\bar{W}$. (Russian. English summary) *Trudy Univ. Družby Narod.* 21 (1967), *vyp.* 2, 78-89. (J. Albrycht) 35 #5929

The best approximation of functions outside an interval and on the half axis. (Russian. Armenian and English summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 3 (1968), *no.* 6, 417-426. (G. G. Lorentz) 42 #748

Židkov, N. P.

* (with Berezin, I. S.) Методы вычислений. Том первый. (Russian) [Methods of calculation. Vol. I] Second edition, stereotype. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1962. 464 *pp.* (Editors) 31 #1756

* (with Berezin, I. S.) Computing methods. Vols. I, II. Translated by O. M. Blunn; translation edited by A. D. Booth. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt; Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1965. *Vol. I:* xxxiv + 464 *pp.; Vol. II:* xv + 679 *pp.* (A. S. Householder) 30 #4372

(with Vedeneev, E. P.) On a certain iterative method for the solution of the scattering problem of neutral mesons. (Russian) *Comput. Methods and Programming (Comput. Center Moscow Univ. Collect. Works III) (Russian), pp.* 452-472. *Izdat. Moskov. Univ., Moscow,* 1965. (I. Białynicki-Birula) 32 #6981

* (with Berezin, I. S.) Методы вычислений. Том I. (Russian) [Computing methods. Vol. I] Third revised and augmented edition. *Izdat. "Nauka", Moscow,* 1966. 632 *pp.* (A. S. Householder) 35 #1170

(with Ščedrin, B. M.) A certain method of search for the minimum of a function of several variables. (Russian) *Computing Methods and Programming, X (Russian), pp.* 203-210. *Izdat. Moskov. Univ., Moscow,* 1968. (V. F. Dem'janov) 41 #2901

(with Vedeneev, E. P.; Ščedrin, B. M.) Differentiation of a tabular function by the method of interpolating conjugacy. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 433-437. (T. I. Seidman) 44 #1221

Ziebur, Allen D.

Uniqueness and the convergence of successive approximations. II. *Proc. Amer. Math. Soc.* 16 (1965), 335-340. (F. Brauer) 34 #1593

On the Gronwall-Ballman lemma. *J. Math. Anal. Appl.* 22 (1968), 92-95. (James S. Muldowney) 36 #6677

On determining the structure of A by analyzing e^{At}. *SIAM Rev.* 12 (1970), 98-102. (T. M. Apostol) 40 #7285

Ziegler, Guy G.

* (with Hilsenrath, Joseph; Messina, Carla G.; Walsh, Philip J.; Herbold, Robert J.) OMNITAB: A computer program for statistical and numerical analysis. National Bureau of Standards Handbook 101. *Superintendent of Documents, U.S. Government Printing Office, Washington, D. C.,* 1966. viii + 256 *pp.* 34 #8675

Ziegler, Hans

Some extremum principles in irreversible thermodynamics with application to continuum mechanics. *Progress in Solid Mechanics, Vol. IV, pp.* 91-193. *North-Holland, Amsterdam,* 1963. (P. P. Teodorescu) 29 #772

(See also Kreiselprobleme [Gyrodynamics] (Symposion Celerina, 1962), 29 #4229)

Some limiting cases of non-Newtonian fluids. *Progress in Applied Mechanics, pp.* 317-332. *Macmillan, New York,* 1963. (P. R. Paslay) 29 #4390

* Екстремальные принципы термодинамики необратимых процессов и механика сплошной среды. (Russian) [Extremum principles of the thermodynamics of irreversible processes and continuum mechanics] Translated from the English by G. I. Barenblatt. *Izdat. "Mir", Moscow,* 1966. 135 *pp.* (Editors) 35 #7626

Ziegler, Hans Jürgen Walter

Sur une note de M. C. Perelló sur des solutions périodiques d'équations fonctionnelles différentielles. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A783-A785. (Jagdish Chandra) 39 #3123

* Über das Anwachsen der Totalkrümmung der Flächen, die von Systemen meromorpher Funktionen erzeugt sind mit Anwendung auf allgemeinere Minimalflächen. Inaugural-Dissertation zur Erlangung der Doktorwürde der Hohen Naturwissenschaftlichen Fakultät der Julius-Maximilians-Universität Würzburg. *Julius-Maximilians-Universität Würzburg, Würzburg,* 1969. iv + 98 *pp.* (R. Osserman) 42 #6239

Ziegler, M. A. See Ziegler-Náray, Maria.

Ziegler, Martin

(with Törnig, W.) Bemerkungen zur Konvergenz von Differenzapproximationen für quasilineare hyperbolische Anfangswertprobleme in zwei unabhängigen Veränderlichen. (English and Russian summaries) *Z. Angew. Math. Mech.* 46 (1966), 201-210. (W. G. Strang) 34 #5325

Ziegler, Michael R.

Some integrals of univalent functions. *Indian J. Math.* 11 (1969), 145-151. (Ch. Pommerenke) 41 #3743

Ziegler, Zvi

(with Karlin, Samuel) Generalized absolutely monotone functions. *Israel J. Math.* 3 (1965), 173-180. (J. V. Ryff) 34 #2805

Generalized convexity cones. *Pacific J. Math.* 17 (1966), 561-580. (E. F. Beckenbach) 34 #2804

(with Karlin, Samuel) Chebyshevian spline functions. *SIAM J. Numer. Anal.* 3 (1966), 514-543. (A. Sharma) 35 #7041

(with Karlin, Samuel) Chebyshevian spline functions. *Inequalities (Proc. Sympos. Wright-Patterson Air Force Base, Ohio, 1965), pp.* 137-149. *Academic Press, New York,* 1967. (J. R. Rice) 37 #1854

(with London, David) Functions over the residue field modulo a prime. *J. Austral. Math. Soc.* 7 (1967), 410-416. (L. Carlitz) 35 #5418

Linear approximation and generalized convexity. *J. Approximation Theory* 1 (1968), 420-443. (E. F. Beckenbach) 39 #1872

On the characterization of measures of the cone dual to a generalized convexity cone. *Pacific J. Math.* 24 (1968), 603-626. (E. F. Beckenbach) 37 #1539

(with Amir, Dan) Generalized convexity cones and their duals. *Pacific J. Math.* 27 (1968), 425-440. (John W. Green) 39 #3295

One-sided L_1-approximation by splines of an arbitrary degree. *Approximations with Special Emphasis on Spline Functions (Proc. Sympos. Univ. of Wisconsin, Madison, Wis., 1969), pp.* 405-413. *Academic Press, New York,* 1969. (A. Sharma) 40 #7684

(with Amir, D.) On generalized absolutely monotone functions. *Israel J. Math.* 7 (1969), 137-146. (J. V. Ryff) 42 #4681

Inequalities for generalized convex functions. *Inequalities, II (Proc. Second Sympos., U. S. Air Force Acad., Colo., 1967), pp.* 409-422. *Academic Press, New York,* 1970. (John W. Green) 42 #4682

(with Schoenberg, I. J.) On cardinal monosplines of least L_∞-norm on the real axis. *J. Analyse Math.* 23 (1970), 409-436. (F. Perrin) 43 #782

(with Karlin, S.) Iteration of positive approximation operators. *J. Approximation Theory* 3 (1970), 310-339. (M. W. Müller) 43 #3715

Ziegler-Náray, Maria

(with Jánossy, L.) The hydrodynamical model of wave mechanics. II. The motion of a single particle in an external electromagnetic field. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 16 (1963/64), 345-353. (R. L. Warnock) 30 #847

Zielas, W.

(with Bachmann, K.-H.) Fehlerabschätzung für Wurzeln algebraischer Gleichungen. *Z. Angew. Math. Mech.* 49 (1969), 632-634. (H. H. Goldstine) 40 #8251

Zieleźny, Z.

On formal trigonometrical series. *Studia Math.* 24 (1964), 305-310. (E. J. Akutowicz) 31 #3863

On infinite derivatives of continuous functions. *Studia Math.* 24 (1964), 311-351. (E. J. Akutowicz) 31 #3862

On Fourier transforms of distributions with one-sided bounded carriers. *Studia Math.* 25 (1964/65), 73-80. (E. J. Akutowicz) 31 #6122

A remark on hypoelliptic differential and convolution operators. *Colloq. Math.* 15 (1966), 111-113. (J. Friberg) 34 #3110

Hypoelliptic and entire elliptic convolution equations in subspaces of the space of distributions. I. *Studia Math.* 28 (1966/67), 317-332. (J. Horváth) 36 #5528

On the space of convolution operators in $\mathscr{K}'_1$. *Studia Math.* 31 (1968), 111-124. (W. Słowikowski) 40 #1772

Hypoelliptic and entire elliptic convolution equations in subspaces of the space of distributions. II. *Studia Math.* 32 (1969), 47-59. (W. Słowikowski) 40 #1773

Zieliński, Ryszard

On the Monte-Carlo evaluation of the extremal value of a function. *Algorytmy* 2 (1965), 7-13. (R. R. Coveyou) 32 #1881

Notes on correctness of least square approximation. (Polish. English summary) *Algorytmy* 3, *no.* 5, 65-71 (1965). (Author's summary) 33 #5092

On the efficiency of Monte Carlo integration of the monomial $c_{n,k}x_1^{n}\dots x_k^{n}$. *Algorytmy* 5, *no.* 9, 21-29 (1968). (R. R. Coveyou) 41 #2882

On convergence of a randomized optimization procedure. (Russian summary) *Algorytmy* 7, *no.* 12, 29-32 (1970). (M. I. Jadrenko) 44 #6082

Zieliński, Stefan

(with Łukasik, Stanisław) A comparison of methods of static optimization for a multi-stage system with recycling. (Polish. Russian and English summaries) *Arch. Automat. i Telemech.* 14 (1969), 265-281. (Authors' summary) 42 #5638

Zieliński, T.

Description of polarization of arbitrary spin particles by one scalar function. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 11 (1963), 337-339. (S. Bludman) 31 #3041

Ziemba, Stefan

(with Skowroński, J.) Boundedness of motion and existence and stability of the limit regime in strongly non-linear, non-autonomous vibrating discrete systems. (With discussion. French and German summaries) *Automatic and Remote Control (Proc. First Internat. Congr. Internat. Fed. Automat. Control, Moscow, 1960), Vol. II, pp.* 906-912. *Butterworths, London,* 1961. (Authors' summary) 33 #2889

(with Skowroński, Janisław M.) The limit domain in the large for nonlinear mechanical systems. (Russian and Polish summaries) *Nonlinear Vibration Problems,* 5, *Second Conf. on Nonlinear Vibrations, Warsaw,* 1962, *pp.* 357-359. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. (N. D. Sengupta) 32 #8564

(with Radziszewski, B.) The phase picture of a nonlinear mechanical system with one degree of freedom with an arbitrarily large but finite number of singular points. (German and Russian summaries) *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1, 379-382. (Authors' summary) 33 #2019

Ziemba, William T.

Stochastic programming models of dynamic planning problems. (French and Russian summaries) *Econom. Comput. Econom. Cybernet. Stud. Res.* 1970, *no.* 3, 67-85. (K. Wickwire) 43 #4438

Transforming stochastic dynamic programming problems into nonlinear programs. *Management Sci.* 17 (1970/71), 450-462. (K. Hinderer) 44 #1422

Computational algorithms for convex stochastic programs with simple recourse. *Operations Res.* 18 (1970), 414-431. (O. Gürel) 42 #4216

(with Warburton, A.) Convex inversion. *J. Math. Anal. Appl.* 35 (1971), 58-66. (W. F. Tyndall) 43 #8383

Ziemer, William P.

On a sufficient condition for onto-ness. *J. Math. Mech.* 13 (1964), 503-509. (S. Sternberg) 30 #3426

The structure of quasi-open maps. *Duke Math. J.* 32 (1965), 661-671. (P. T. Church) 32 #436

Some lower bounds for Lebesgue area. *Pacific J. Math.* 19 (1966), 381-390. (E. Silverman) 34 #2830

Extremal length and conformal capacity. *Trans. Amer. Math. Soc.* 126 (1967), 460-473. (F. W. Gehring) 35 #1776

Change of variables for absolutely continuous functions. *Duke Math. J.* 36 (1969), 171-178. (F. J. Almgren, Jr.) 38 #6006

Extremal length and p-capacity. *Michigan Math. J.* 16 (1969), 43-51. (F. W. Gehring) 40 #346

The area and variation of linearly continuous functions. *Proc. Amer. Math. Soc.* 20 (1969), 81-87. (E. Silverman) 38 #2280

(with Goffman, Casper) Higher dimensional mappings for which the area formula holds. *Ann. of Math.* (2) 92 (1970), 482-488. (E. Silverman) 42 #6166

Extremal length as a capacity. *Michigan Math. J.* 17 (1970), 117-128. (F. W. Gehring) 42 #3299

(with Goffman, Casper) Higher dimensional mappings for which the area formula holds. *Proc. Nat. Acad. Sci. U.S.A.* 65 (1970), 491-494. (G. Freilich) 41 #8633

Ziemkiewicz, Andrzej

(with Waligórska, Pelagia; Głowacki, Bartłomiej) Methods of hifh-speed multiplication in binary number systems. *Algorytmy* 5, *no.* 9, 109-126 (1968). (A. D. Booth) 42 #1374

Zien, H. M.

(with Lessen, M.; Fox, J. A.) The instability of inviscid jets and wakes in compressible fluid. *J. Fluid Mech.* 21 (1965), 129-143. (J. W. Miles) 30 #1687

Zierep, Jürgen

Schallnahe Strömungen (Beiträge zur parabolischen Methode). *Z. Angew. Math. Mech.* 43 (1963), *suppl.,* T182-T187. (E. V. Laitone) 32 #4994

Theoretische Untersuchungen über Zellularkonvektionsströmungen. (Polish and Russian summaries) *Arch. Mech. Stos.* 16 (1964), 491-505. (O. R. Burggraf) 31 #6469

Ähnlichkeitsgesetze für Profilströmungen mit Wärmezufuhr. (English summary) *Acta Mech.* 1 (1965), 60-70. (P. Mandl) 31 #1854

(with Burg, K.) Profile geringsten Widerstandes bei Schallanströmung. (English summary) *Acta Mech.* 1 (1965), 93-108. (C. S. Morawetz) 32 #8642

(with Heynatz, Johann Theodor) Ein analytisches Verfahren zur Berechnung der nichtlinearen Wellenausbreitung. (English and Russian summaries) *Z. Angew. Math. Mech.* 45 (1965), 37-46. (J. J. Mahony) 32 #6817

Zierler, Neal

Several binary-sequence generators. *Linear Sequential Switching Circuits, pp.* 153-195. *Holden-Day, San Francisco, Calif.,* 1965. (Author's summary) 31 #6697

(with Schlessinger, Michael) Boolean embeddings of orthomodular sets and quantum logic. *Duke Math. J.* 32 (1965), 251-262. (H. Wakita) 30 #5704

(with Rao, T. R. N.) On mappings for modular arithmetic. I. *J. Assoc. Comput. Mach.* 12 (1965), 542-544. (R. W. Hamming) 32 #1154

(with Berkovits, S.; Schlessinger, M.) On mappings for modular arithmetic. II. *J. Assoc. Comput. Mach.* 12 (1965), 545-546. (R. W. Hamming) 32 #1155

On the lattice of closed subspaces of Hilbert space. *Pacific J. Math.* 19 (1966), 583-586. (H. Wakita) 34 #2509

Linear recurring sequences and error-correcting codes. *Error Correcting Codes (Proc. Sympos. Math. Res. Center, Madison, Wis., 1968), pp.* 47-59. *Wiley, New York,* 1968. (R. J. McEliece) 40 #2438

(with Brillhart, John) On primitive trinomials (Mod 2). *Information and Control* 13 (1968), 541-554. (From the authors' introduction) 38 #5750

(with Brillhart, John) On primitive trinomials (Mod 2). II. *Information and Control* 14 (1969), 566-569. (Editors) 39 #5521

Primitive trinomials whose degree is a Mersenne exponent. *Information and Control* 15 (1969), 67-69. (Author's summary) 39 #5522

(with Mills, W. H.) On a conjecture of Golomb. *Pacific J. Math.* 28 (1969), 635-640. (John H. Hodges) 39 #6862

On $x^n + x + 1$ over GF(2). *Information and Control* 16 (1970), 502-505. (E. R. Berlekamp) 42 #5955

Trinomials with non-conjugate roots of the same prime order. *J. Combinatorial Theory Ser. A* 11 (1971), 307-309. (E. F. Assmus, Jr.) 44 #6651

Ziermann, Margit

Application of Smirnov's theorem to an inventory problem. (Hungarian. Russian and German summaries) *Magyar Tud. Akad. Mat. Kutató Int. Közl.* 8 (1963), 509-518 (1964). (E. Lukacs) 32 #3875

Zieschang, Heiner

Über Worte $S_1^{a_1}S_2^{a_2}\dots S_q^{a_q}$ in einer freien Gruppe mit p freien Erzeugenden. *Math. Ann.* 147 (1962), 143-153. (R. H. Fox) 30 #1166

On the classification of simple systems of paths on a surface of genus 2. (Russian) *Dokl. Akad. Nauk SSSR* 152 (1963), 841-844. (P. J. Hilton) 31 #4024

On a problem of Neuwirth on knot groups. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 1017-1019. (P. J. Hilton) 31 #4025

On automorphisms of plane groups. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 57-60. (M. Greendlinger) 29 #5927

(with Flachsmeyer, Jürgen) Über die schwache Konvergenz der Haarschen Masse von Untergruppen. *Math. Ann.* 156 (1964), 1-8. (J. G. Wendel) 29 #3572

Alternierende Produkte in freien Gruppen. II. *Abh. Math. Sem. Univ. Hamburg* 28 (1965), 219-233. (R. C. Lyndon) 32 #2462

Simple path systems on full pretzels. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 230-239. (M. Greendlinger) 33 #1849

Algorithmen für einfache Kurven auf Flächen. *Math. Scand.* 17 (1965), 17-40. (P. Orlik) 33 #4936

(with Epstein, D. B. A.) Curves on 2-manifolds: A counterexample. *Acta Math.* 115 (1966), 109-110. (P. Dedecker) 35 #4939

Über Automorphismen ebener diskontinuierlicher Gruppen. *Math. Ann.* 166 (1966), 148-167. (P. Orlik) 34 #1403

(with Burde, Gerhard) Eine Kennzeichnung der Torusknoten. *Math. Ann.* 167 (1966), 169-176. (R. Bott) 35 #1008

Discrete groups of plane motions and plane group images. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 3 (129), 195-212. (H. W. Guggenheimer) 33 #4150

On a paper of J. G. Sinaĭ on dynamical systems. *Symposium on Probability Methods in Analysis (Loutraki, 1966), p.* 329. *Springer, Berlin,* 1967. (D. Newton) 36 #2780 (with Černavskiĭ, A. V.) Geometric topology of manifolds. (Russian) *Algebra, Topology, Geometry, 1965 (Russian)*, pp. 219-261. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow*, 1967. (RŽMat 1967 #10 A403) 39 #3501

Nielsen's theorem: Certain applications and generalizations of it. (Russian) *Proc. Fourth All-Union Topological Conf. (Tashkent, 1963) (Russian)*, pp. 184-201. *Izdat. "Fan" Uzbek. SSR, Tashkent*, 1967. (K. Horvatić) 41 #7696

(with Burde, Gerhard) Neuwirthsche Knoten und Flächenabbildungen. *Abh. Math. Sem. Univ. Hamburg* 31 (1967), 239-246. (L. Neuwirth) 37 #4803

(with Orlik, P.; Vogt, E.) Zur Topologie gefaserter dreidimensionaler Mannigfaltigkeiten. *Topology* 6 (1967) 49-64. (D. B. A. Epstein) 35 #3696

(with Burde, G.) A topological classification of certain 3-manifolds. *Bull. Amer. Math. Soc.* 74 (1968), 122-124. (L. Neuwirth) 36 #2153

Algorithmen für einfache Kurven auf Flächen. II. *Math. Scand.* 25 (1969), 49-58. (P. Orlik) 41 #7683

Torus bundles over surfaces. (Russian) *Mat. Zametki* 5 (1969), 569-576. (P. Orlik) 40 #2085

* (with Vogt, E.; Coldewey, H.-D.) Flächen und ebene diskontinuierliche Gruppen. Lecture Notes in Mathematics, Vol. 122. *Springer-Verlag, Berlin-New York*, 1970. viii + 203 pp. (P. Orlik) 41 #6986

Über die Nielsensche Kürzungsmethode in freien Produkten mit Amalgam. *Invent. Math.* 10 (1970), 4-37. (Hanna Neumann) 41 #8528

On extensions of fundamental groups of surfaces and related groups. *Bull. Amer. Math. Soc.* 77 (1971), 1116-1119. (J. J. Burckhardt) 44 #4098

Ziesche, P.

(with Macke, W.) Verbundgraphendarstellung des *S*-Operators beim quantenmechanischen Mehrteilchenproblem. (Russian summary) *Acta Phys. Acad. Sci. Hungar.* 17 (1964), 215-221. (G. Källén) 31 #3020

Ziętak, Krystyna

On the optimum rational function connected with the ADI-method. (Polish and Russian summaries) *Zastos. Mat.* 11 (1969/70), 337-352. (Y. Cherruault) 44 #1206

Ziezold, Herbert

Über die Eckenanzahl zufälliger konvexer Polygone. (Armenian and Russian summaries) *Izv. Akad. Nauk Armjan. SSR Ser. Mat.* 5 (1970), *no.* 3, 296-312. (G. C. Shephard) 44 #4800

Žigalko, Ju. P.

On the question of calculation of thin cylindrical shells in the case of radial loads. (Russian) *Studies Theory of Plates and Shells, Collect. II (Russian)*, pp. 3-9. *Izdat. Kazan. Univ., Kazan*, 1964. (A. Sawczuk) 34 #7096

Žigalova, L. V.

The first references to Galileo in the Russian scientific literature. (Russian) *Voprosy Istor. Estest. i Tehn. No.* 16 (1964), 91-93. (C. J. Scriba) 30 #3829

Zigangirov, K. Š.

Optimality of search in a system with a finite number of positions. (Russian) *Radiotehn. i Èlektron.* 9 (1964), 1745-1748. (W. H. Fleming) 31 #2100

On a problem of optimal scanning. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 333-338. (P. Sagirow) 33 #8230

(with Pinsker, M. S.; Cybakov, B. S.) Sequential decoding in a continuous channel. *Problemy Peredači Informacii* 3 (1967), *vyp.* 4, 5-17 *(Russian); translated as Problems of Information Transmission* 3 (1967), *no.* 4, 1-10 (1969). (I. Vajda) 44 #6398

Ziggelaar, August

Études sur Ignace Gaston Pardies. I. Aux origines de la théorie des vibrations harmoniques: Le Père Ignace Gaston Pardies (1636-1673). *Centaurus* 11 (1965), 145-151. (M. Kline) 40 #1242

Études sur Ignace Gaston Pardies. II. Les premières démonstrations du tautochronisme de la cycloïde, et une conséquence pour la théorie de la vibration harmonique. *Centaurus* 12 (1967/68), 21-37. (M. Kline) 40 #1243

Études sur Ignace Gaston Pardies. III. Une invention oubliée: Deux instruments pour la construction des cadrans solaires. *Centaurus* 13 (1968), 187-197. (M. Kline) 40 #1244

Žiglevič, B. A.

Interpolation methods for calculation of simple and multiple real roots of functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 165-167. 34 #5280

The calculation of a multiple real root of a function. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1165-1168. (G. Goldner) 42 #2654

Zigmund, A. See Zygmund, Antoni.

Zigoc′ka, N. Ī.

Application of the method of equivalent sinusoidal quantities to the solution of certain systems of non-linear differential equations containing multivalued functions. (Russian) *First Repub Math. Conf. of Young Researchers, Part II (Russian)*, pp. 248-255. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1965. 32 #7873

(with Naumov, A. L.) An approximate method of determining forced oscillations described by certain nonlinear differential equations. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR* 1966, 286-291. 33 #2887

Žigockaja, N. I. See Žigoc′ka, N. Ī.

Žigulev, V. N.

On the theory of ordered statistical systems. (Russian) *Dokl Akad. Nauk SSSR* 161 (1965), 1051-1054. (R. Balescu) 30 #5748

Equations for the turbulent motion of a gas. *Dokl. Akad. Nauk SSSR* 165 (1965), 502-505 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 1003-1005. (P. G. Saffman) 33 #6946

Žigulin, I. A.

Certain invariants of the group of triangular-unit matrices in a space adjoint to the space of its Lie algebra. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 32-35. (J. M. G. Fell) 32 #5793

Certain classes of orbits for the group of triangular-unit matrices. (Russian) *Dokl. Akad. Nauk SSSR* 170 (1966), 1247-1250. (J. M. G. Fell) 34 #7710

Certain classes of orbits for the group of triangular matrice with ones on the principal diagonal. (Russian) *Moskov. Gos. Ped. Inst. Učen. Zap. No.* 271 (1967), 269-284. (H. Freudenthal) 41 #1932

Žigulin, N. N.

A remark on a theorem from the book "Elements of the theory of functions and of functional analysis" by A. N. Kolmogorov and S. V. Fomin. (Russian) *Mat. Zametki* 2 (1967), 91-92. (R. Sikorski) 35 #6797

Žihar, M. A.

Some criteria of *I*-self-adjointness of an *I*-symmetric differential operator of the second order. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraïn. RSR* 1965, 1270-1272. (M. Ráb) 32 #4306

Žihor′, N. A. See Žihar, M. A.

Zijaev, K. G.

The construction of formulae for the approximate computation of double integrals in a region that is the figure bounded by the parabola $y^2 = 2px$ and the $x = c$. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 9 (1960), 31-37. (I. F. Šelihova (RŽMat 1962 #5 V220)) 42 #2665

(with Uzakov, Ju. K.) Review of the literature on the histor of mathematics published in Uzbek. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 19 (1964), 152-160. 33 #5422

Department of advanced mathematics during 30 years. (Russian) *Taškent. Tekstil. Inst. Kaf. Vysš. Mat. Sb. Naučn.-Issled. Rabot Ser. Mat. Vyp.* 19 (1964), 5-19. (Editors) 33 #5431

Zijaev, M.

The plane problem of the equilibrium of an elastic wedge (strip), on one edge of which are given either the stresses or the displacements, and on the other the normal stresses and the tangent displacements. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 13 (1970), *no.* 2, 7-11. (S. Gogonea) 44 #4222

The plane problem for a wedge (strip) with either the stresse or the displacements given on one edge and the tangent stresses and the normal displacements on the other. (Russian. Tajiki summary) *Dokl. Akad. Nauk Tadžik. SSR* 13 (1970), *no.* 3, 7-11. (S. Gogonea) 44 #4223

Zijaudinov, M. D.

A certain problem from a Λ-system. (Russian) *Optimal. Planirovanie Vyp.* 16 (1970), 21-32. (A. Göpfert) 44 #6321

Zijaudinova, D. A.

(with Rubinov, A. M.) Minimization of sublinear functionals on convex compacta of metrizable locally convex spaces. (Russian) *Optimal. Planirovanie Vyp.* 7 (1967), 3-24. (V. F. Dem′janov) 37 #7176

Zika, M. J.

(with Ariman, T.) On complex potentials in micropolar elasticity. (German and Russian summaries) *Z. Angew. Math. Mech.* 51 (1971), 183-188. (R. L. Fosdick) 44 #4957

Žikov, V. V.

Abstract equations with almost-periodic coefficients. (Russia *Dokl. Akad. Nauk SSSR* 163 (1965), 555-558. (S. Zaidman) 32 #601

Almost periodic solutions of differential equations in Hilber space. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 1227-1230. (W. T. Kyner) 33 #355

On the question of harmonic analysis of bounded solutions of operator equations. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 1254-1257. (S. Zaidman) 33 #6090

Inverse Sturm-Liouville problems on a finite interval. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 965-976. (M. Ráb) 36 #455

(with Gasymov, M. G.; Levitan, B. M.) Conditions for discreteness and finiteness of the negative spectrum of Schrödinger's operator equation. (Russian) *Mat. Zametki* 2 (1967), 531-538. (P. Szeptycki) 36 #2013

Criteria for almost periodicity. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 4 (1967), 171-175. (L. C. Young) 36 #3067

Almost periodic solutions of differential equations in a Banach space. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 4 (1967), 176-188. (O. E. Stanaitis) 36 #6754

Dini's theorem for monotonic sequences of almost periodic, almost automorphic and recurrent functions and questions connected with it. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 4, 12-16. (O. E. Stanaitis) 36 #562

A certain problem of Bochner and von Neumann. (Russian) *Mat. Zametki* 3 (1968), 529-538. (O. Vejvoda) 37 #4381

On the problem of the existence of almost periodic solutions of differential and operator equations. (Russian. Azerbaijani summary) *Akad. Nauk Azerbaĭdžan. SSR Dokl.* 26 (1970), *no.* 7, 3-7. (V. Drobot) 44 #5944

Almost periodic solutions of linear and nonlinear equations in a Banach space. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 278-281. (O. E. Stanaitis) 43 #667

A certain complement to the classical theory of Favard. (Russian) *Mat. Zametki* 7 (1970), 239-246. (J. Albrycht) 41 #2134

Certain functional methods in the theory of almost periodic solutions. I. (Russian) *Differencial'nye Uravnenija* 7 (1971), 215-225. (Š. Schwabik) 43 #7719

The existence of solutions, almost periodic in the sense of Levitan, of linear systems (second supplement to the classical theory of Favard). (Russian) *Mat. Zametki* 9 (1971), 409-414. (Š. Schwabik) 43 #7720

(with Basit, Boles R.) Almost periodic solutions of integro-differential equations in a Banach space. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 26 (1971), *no.* 2, 29-33. (F. Smithies) 44 #857

Zilauc, A. F. See Zilaucs, A. F.

Zilaucs, A. F.

Radial loading in local deformation theory. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1964, *no.* 6, 74-82. (J. Nowinski) 32 #1976

The mathematical foundations of the theory of local deformations. (Russian. Latvian and English summaries) *Latvijas PSR Zinātņu Akad. Vēstis Fiz. Tehn. Zinātņu Sēr.* 1965, *no.* 3, 84-89. (G. Rieder) 32 #1948

Zilber, J. A.

(See Keldyš, L. V., 38 #696)

Zil'berberg, A. A.

On the existence of a closed convex surface with a given Integral curvature topologically transferred onto a sphere. (Russian) *Akad. Nauk Kazah. SSR Trudy Sekt. Mat. Meh.* 2, 73-77, (1963). (A. Urban) 32 #2987

The existence of a certain type of closed convex polyhedra with arbitrarily defined vertex curvatures. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 3, 70-73. (E. Hertel) 44 #4639

Zil'berberg, N. I.

(with Bronšteĭn, I. U.) Relatively dense Ljapunov stability. (Russian. Moldavian summary) *Bul. Akad. Štiince RSS Moldoven.* 1964, *no.* 6, 11-18. (Ky Fan) 36 #872

(with Sibirskiĭ, K. S.) On a hypothesis of M. I. Al'muhamedov. (Russian) *Studies in Algebra and Math. Anal. (Russian)*, *pp.* 131-133. *Izdat. "Karta Moldovenjaske", Kishinev,* 1965. (C. Karanikolov) 34 #4147

Zilberman, P. E.

The variational principle in the theory of Green's functions for inhomogeneous systems. *Fiz. Tverd. Tela* 5 (1963), 386-396 *(Russian); translated as Soviet Physics Solid State* 5 (1963), 281-288. (M. J. Stephen) 29 #6875

Zil'bermann, B.

Singular integral operators in spaces of infinitely differentiable and generalized functions. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 3 (21), 168-179. (J. L. B. Cooper) 44 #5833

il'cov, V. A.

A proof of commensurability of the Favard and Hausdorff measures for sets of bounded variations. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1157-1162. (J. Král) 34 #1481

On the behavior of spatial mappings at boundary points. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 5, 63-65. (P. Caraman) 35 #4432; erratum, 36, p. 1567

Žileĭkin, Ja. M.

An approximate solution of the Dirichlet problem for the Laplace equation. (Russian) *Dokl. Akad. Nauk SSSR* 155 (1964), 999-1002. (Bl. Sendov) 30 #270

On the approximate solution of integral equations. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 749-753. (M. J. Stetter) 29 #3846

An approximate method of solution of the Dirichlet problem for the Laplace equation in a rectangular parallelopiped. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 345-347. (V. Thomée) 33 #5151

Quadrature formulas on function classes. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 507-516. (E. M. Bruins) 38 #5391

The errors in the approximate computation of integrals of rapidly oscillating functions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 11 (1971), 263-266. (A. H. Stroud) 44 #2346

Žilevič, L. I.

(Čerkas, L. A.) Some tests for the absence or uniqueness of limit cycles. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1170-1178. (J. M. Skowroński) 42 #6341

The uniqueness conditions for the limit cycle. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1888-1891. (Author's summary) 42 #7996

The separatrices and limit cycles of certain differential equations. (Russian) *Differencial'nye Uravnenija* 7 (1971), 782-790, 947. (L. Reiziņš) 44 #2980

On the question of separatrices and limit cycles of a certain differential equation. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1525-1527, 1543. (L. Reiziņš) 44 #4283

Ziļicka, T.

* (with Riekstiņš, E.) Uzdevumu krājums matemātiskās fizikas metodēs. 1. Daļa: Vektoru lauka teorija. Variāciju rēķini. (Latvian) [Collection of problems in methods of mathematical physics. Part 1: Theory of vector fields. Calculus of variations] *Latvijas Valsts Univ., Riga,* 1970. 44 *pp.* (E. Leimanis) 43 #7105a

Žilins'ka, Z. P.

(with Drobotenko, V. S.; Drobotenko, E. S.) Prpresentations of a cyclic group of prime order p over the ring of residue classes modulo p^2. (Ukrainian. Russian and English summaries) *Dopovidi Akad. Nauk Ukraĭn. RSR* 1965, 703-706. (W. F. Reynolds) 32 #5742

(with Drobotenko, V. S.; Drobotenko, E. S.; Pogoriljak, E. Ja.) Representations of the cyclic group of prime order p over the ring of residue classes mod p^s. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 5, 28-42. (W. F. Reynolds) 32 #5743

(See also Kèrtis, Č. and Raĭner, I., 40 #1490)

Žilinskaja, Z. P. See Žilins'ka, Z. P.

Žilkibaeva, T. A.

A certain bounded Cauchy problem in the nonlinear space L. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 3, 53-58. (G. Ladas) 41 #3951

(with Tulegenov, M. U.) On the question of stability of the solutions of differential equations in nonlinear spaces L. (Russian) *Certain Problems in Differential Equations (Russian), pp.* 46-51. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (V. Lakshmikantham) 40 #510

Žil'kov, È. A.

(with Stratonovič, R. L.) Certain relations between thermodynamic functions and their information-theoretic interpretation. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1965, *no.* 2, 44-52. (R. Cirelli) 36 #1178

Zill, D. G.

(with Carlson, B. C.) Symmetric elliptic integrals of the third kind. *Math. Comp.* 24 (1970), 199-214. (H. E. Fettis) 41 #7159

Ziller, W.

(with Pinl, M.) Minimalmannigfaltigkeiten und analytische Funktionen. II. *J. Reine Angew. Math.* 244 (1970), 177-189. (R. Osserman) 42 #3689

Zilsel, P. R.

Pseudospin model of liquid He^4. *Phys. Rev. Lett.* 15 (1965), 476-479. (M. E. Fisher) 32 #5264

Zima, K.

Sur une méthode de résolution approchée de certaines équations différentielles. *Ann. Polon. Math.* 17 (1966), 273-279. (G. Dahlquist) 33 #1977

On a differential inequality with a lagging argument. *Ann. Polon. Math.* 18 (1966), 227-233. (D. C. Benson) 34 #4728

Sur la continuité des dolutions d'une équation différentielle fonctionnelle en fonction d'un paramètre. *Colloq. Math.* 18 (1967), 37-42. (M. N. Oğuztöreli) 37 #6572

Sur un système d'équations différentielles avec dérivée à gauche. *Ann. Polon. Math.* 22 (1969/70), 37-47. (D. E. Edmunds) 40 #4572

Sur les équations aux dérivées partielles du premier ordre à argument fonctionnel. *Ann. Polon. Math.* 22 (1969/70), 49-59. (L. E. Bobisud) 39 #7301

Un problème mixte pour l'équation aux dérivées partielles du second ordre du type parabolique à argument fonctionnel. *Ann. Polon. Math.* 22 (1969/70), 61-68. (L. E. Bobisud) 39 #7302

Ziman, J. M.

* Principles of the theory of solids. *Cambridge University Press, New York,* 1964. xiii + 360 *pp.* (E. L. Hill) 29 #3207

The T matrix, the K matrix, d bands and l-dependent pseudo-potentials in the theory of metals. *Proc. Phys. Soc.* 86 (1965), 337-353. (W. Kohn) 32 #3774

* Elements of advanced quantum theory. *Cambridge University Press, New York,* 1969. xii + 269 *pp.* (P. Roman) 40 #5190

Ziman, Ju. L.

On graphs of a special type. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 747-750. (H. Sachs) 31 #3360

Zimering, Samson

Mathematical methods for evaluating three-body interactions between closed-shell atoms or ions. *J. Mathematical Phys.* 6 (1965), 336-347. (J. Franklin) 31 #3125

Zimering, Shimshon

On a Mercerian theorem and its application to the equiconvergence of Cesàro and Riesz transforms. *Publ. Inst. Math. (Beograd) (N.S.)* 1(15) (1961), 83-91 (1962). (S. K. Basu) 31 #543

Une extension d'un théorème de R. Rado et ses applications aux theorèmes merceriens. *C. R. Acad. Sci. Paris* 260 (1965), 2965-2966. (E. P. Merkes) 31 #545

Matrices limites d'une matrice trangulaire et leur application aux théorèmes merceriens. *C. R. Acad. Sci. Paris* 260 (1965), 3248-3250. (S. K. Basu) 31 #6080

Une remarque sur un théorème de Hardy-Littlewood et son application à l'équiconvergence des procédés de Cesàro et Riesz. *C. R. Acad. Sci. Paris* 260 (1965), 4395-4396. (M. S. Ramanujan) 31 #2533

Sur deux théorèmes merceriens de N. A. Davydov. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1162-A1163. (G. M. Petersen) 33 #7747

Un théorème Mercerien. *Indian J. Math.* 8 (1966), 71-75. (G. M. Petersen) 35 #3317

On the equiconvergence between two Noerlund transformations. *Proc. Amer. Math. Soc.* 19 (1968), 263-267. (D. L. Prullage) 36 #6832

Some asymptotic behavior of Stieltjes transforms. *J. Mathematical Phys.* 10 (1969), 181-183. (G. Doetsch) 38 #3699

Zimerman, A. H.

(with Aly, H. H.; Riazuddin) Singular logarithmic potentials and peratization. *Phys. Rev.* (2) 136 (1964), B1174-B1175. (F. Calogero) 31 #4384

(with Aly, H. H.; Riazuddin) Scattering by singular logarithmic potential. *J. Mathematical Phys.* 6 (1965), 1115-1117. (F. Calogero) 31 #4385

(with Aly, H. H.; Riazuddin) Highly singular potential and peratization. *Nuovo Cimento* (10) 35 (1965), 324-328. (E. Predazzi) 32 #5051

Zimin, A. B.

(with Vasil'eva, A. B.) Asymptotic behaviour of certain classes of differential equations with a small parameter multiplying the highest derivative. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 1964, *no.* 4, 21-29. (C. S. Coleman) 29 #2489

Certain boundary value problems for quasilinear equations which contain a small parameter at the highest derivative. (Russian) *Differencial'nye Uravnenija* 5 (1969), 357-370. (E. Leimanis) 39 #3114

The Cauchy problem for a second order linear equation with small parameter which degenerates in the limit to an equation with singular points. (Russian) *Differencial'nye Uravnenija* 5 (1969), 1583-1593. (H. Baumgärtel) 40 #7585

The Cauchy problem for an nth order linear equation with a small parameter multiplying the highest derivative in the case of singular initial data. (Russian) *Differencial'nye Uravnenija* 6 (1970), 861-870. (H. Baumgärtel) 42 #8031

Zimmer, Harald

Informationstheoretische Untersuchungen zur Faßlichkeit von Aussagenverknüpfungen. *Wiss. Z. Techn. Univ. Dresden* 18 (1969), 859-862. (Author's summary) 42 #1617

Zimmer, Horst G.

An elementary proff of the Riemann hypothesis for an elliptic curve over a finite field. *Pacific J. Math.* 36 (1971), 267-278. (H. Kurke) 44 #1668

Zimmer, W. J.

(with Prairie, R. R.) 2^p factorial experiments with the factors applied sequentially. *J. Amer. Statist. Assoc.* 59 (1964), 1205-1216. (H. L. Harter) 31 #1751

(with Prairie, R. R.) Fractional replications of 2^p factorial experiments with the factors applied sequentially. *J. Amer. Statist. Assoc.* 63 (1968), 644-652. 38 #835

(with Steck, G. P.) The relationship between Neyman and Bayes confidence intervals for the hypergeometric parameter. *Technometrics* 10 (1968), 199-203. (Authors' summary) 36 #4691

(with Jackson, D. A.; O'Donovan, T. M.; Deely, J. J.) $\mathcal{G}_2$-minimax estimators in the exponential family. *Biometrika* 57 (1970), 439-443. 42 #5379

Zimmerman, J. E.

(with Mercereau, J. E.) Compton wavelength of superconducting electrons. *Phys. Rev. Lett.* 14 (1965), 887-888. (B. P. Nigam) 31 #2015

Zimmerman, J. R.

Five precision point synthesis of the four-bar function generator. *Trans. ASME Ser. E. J. Appl. Mech.* 31 (1964), 563-564. (Author's introduction) 29 #4236

Zimmerman, Robert L.

Analytic continuation of $\mathscr{A}(l,s)$ for Re $l < N$. *J. Mathematica Phys.* 6 (1965), 182-192. (A. O. Barut) 30 #3709

Evaluation of Feynman's functional integrals. *J. Mathematical Phys.* 6 (1965), 1117-1124. (R. F. Streater) 32 #777

Equivalent field theories and elementary-particle democracy. *Phys. Rev.* (2) 141 (1966), 1554-1559. (A. E. A. Warburton) 33 #7011

Zimmerman, Susan J.

(with Thron, W. J.) A characterization of order topologies by means of minimal T_0-topologies. *Proc. Amer. Math. Soc.* 27 (1971), 161-167. (J. Diestel) 44 #997

Zimmermann, A.

(with Metzler, W.) Selbstäquivalenzen von $S^3 \times S^3$ in quaternionischer Behandlung. *Arch. Math. (Basel)* 22 (1971), 209-213. (M. Arkowitz) 44 #5959

Zimmermann, G.

(with Koppe, E.) Zur tensoriellen Beschreibung zeitlicher Ableitungen. (English summary) *Acta Mech.* 1 (1965), 16-28. (A. C. Pipkin) 30 #5238

Zimmermann, Karel

(with Vlach, Milan) One generalization of the dynamic programming problem. (Czech summary) *Apl. Mat.* 15 (1970), 79-96. (B. Gluss) 42 #5624

One generalization of the stochastic dynamic programming problem. (Czech summary) *Ekonom.-Mat. Obzor* 6 (1970), 11-21. (B. Gluss) 44 #7965

A stability of the method of approximate solution of the systems of functional equations that occur in dynamic programming. (Czech. English summary) *Ekonom.-Mat. Obzor* 6 (1970), 389-408. (B. Crstici) 44 #2487 (E)

Prof. Josef Bílý has died. (Czech) *Časopis Pěst. Mat.* 96 (1971), 222-224. (Editors) 44 #2560

Zimmermann, Katharina

(with Henrici, Peter) An estimate for the norms of certain cyclic Jacobi operators. *Linear Algebra and Appl.* 1 (1968), 489-501. (L. W. Ehrlich) 38 #6759

* Zur Konvergenz eines Jacobiverfahren für gewöhnliche und verallgemeinerte Eigenwertprobleme. Abhandlung zur Erlangung der Würde eines Doktors der Mathematik der Eidgenössischen Technischen Hochschule, Zürich. Dissertation No. 4305. *Juris Druck + Verlag, Zürich,* 1969. i + 40 *pp.* (James H. Wilkinson) 43 #7054

Zimmermann, R.

Ritzsches Verfahren für Aufgaben mit Eigenwerten in den Randbedingungen. *Z. Angew. Math. Mech.* 50 (1970), 315-316. (S. H. Gould) 42 #1325

Zimmermann, Wolfhart

Local field equation for A^4-coupling in renormalized perturbation theory. *Comm. Math. Phys.* 6 (1967), 161-188. (Editors) 38 #6815

Direction-dependent singularities for A^4-coupling. *Comm. Math. Phys.* 10 (1968), 325-329. (R. Høegh-Krohn) 38 #6816

(with Hahn, Yukap) An elementary proof of Dyson's power counting theorem. *Comm. Math. Phys.* 10 (1968), 330-342. (S. Cinquini) 40 #7675

The power counting theorem for Minkowski metric. *Comm. Math. Phys.* 11 (1968/69), 1-8. (D. Babbitt) 38 #5441; erratum, 39, p. 1594

Convergence of Bogoliubov's method of renormalization in momentum space. *Comm. Math. Phys.* 15 (1969), 208-234. (Author's summary) 40 #8367

Zimogljad, V. V.

The growth of entire functions that satisfy special inequalities. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 6 (1968), 30-41. (G. Halász) 41 #8675

Zin, Giovanni

Sui fondamenti della meccanica statistica. *Atti Convegno Lagrangiano (Torino,* 1963*)* [*Atti Accad. Sci. Torino* 98 (1963/64), *suppl.*], *pp.* 405-428. *Accad. Sci., Torino,* 1964. 31 #5592

Sul momento complementare della quantità di moto elettromagnetica irradiato da una carica puntiforme. *Atti Accad. Sci. Torino Cl. Sci. Fis. Mat. Natur.* 99 (1964/65), 1149-1155. (P. L. E. Uslenghi) 32 #8689

L'integrale di Fourier nella teoria della radiazione delle cariche in moto. *Simpos. Internaz. Appl. Anal. Fis. Mat. (Cagliari-Sassari,* 1964*), pp.* 235-262. *Edizioni Cremonese, Rome,* 1965. (L. F. Oster) 35 #2559

Sulla meccanica aleatoria. *Atti del Settimo Congresso dell'Unione Matematica Italiana (Genova,* 1963*), pp.* 108-128. *Edizioni Cremonese, Rome,* 1965. (Editors) 37 #3828

Zinčenko, N. F.

(with Klement'ev, Z. I.) On partially ordered spaces of generalized measures of bounded (*p*)-variation. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 179 (1966), 46-48. (G. J. O. Jameson) 34 #6020b

Zinčenko, O. Ī.

A class of approximate methods of solving operator equations with non-differentiable operators. (Ukrainian. Russian and English summaries) *Dopovidī Akad. Nauk Ukraīn. RSR* 1963, 852-856. (W. V. Petryshyn) 30 #2698

Stability of a certain generalization of the Newton-Kantorovič method. (Russian) *Mathematical Physics, No.* 5 (1968) *(Russian), pp.*74-75. *Naukova Dumka, Kiev,* 1968. (B. Jankó) 42 #1334

The stability of the Newton-Kantorovič method of approximate solution of functional equations. (Russian) *Mathematical Physics, No.* 7 *(Russian), pp.* 86-88. *Naukova Dumka, Kiev,* 1970. (J. S. Shipman) 42 #4009

inger, A. A.

(with Zinnik, Ju. V.) Polynomial statistics for a normal law and those related to it. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 547-550. (J. Hájek) 29 #5328

(with Linnik, Ju. V.) Characterization of the normal distribution. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 692-695. (J. G. Wendel) 30 #607

On a problem of B. V. Gnedenko. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 1238-1240. (J. L. Doob) 31 #4076

On a class of limit distributions for normalized sums of independent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 672-692. (F. L. Spitzer) 33 #3340

On the distribution of polynomial statistics in samples from normal and related populations. *Trudy Mat. Inst. Steklov.* 79 (1965), 150-159 *(Russian); translated as Proc. Steklov Inst. Math. No.* 79 (1966), 167-177. (E. Lukacs) 34 #6898

On an extension of the class of stable distributions. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 1255-1256. (G. K. Eagleson) 35 #3717

(with Linnik, Ju. V.) Polynomial statistics from a normal sample. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 766-767. (J. L. Denny) 36 #4675

(with Kagan, A. M.; Klebanov, L. B.) The sample mean as an estimator of the shift parameter in the presence of certain losses which differ from the quadratic. (Russian) *Dokl. Akad. Nauk SSSR* 189 (1969), 29-30. (G. K. Eagleson) 41 #1162

(with Linnik, Ju. V.) Nonlinear statistics and random linear forms. (Russian) *Trudy Mat. Inst, Steklov.* 111 (1970), 23-39. *(errata insert)* (S. Kullback) 44 #6089

inger, I. M. See Singer, Isadore M.

nger, M. Ja.

On the roots of trigonometric polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1263-1266. (J. E. Cigler) 31 #6090

Functionals of derivatives in the complex plane. (Russian) *Dokl, Akad. Nauk SSSR* 166 (1966), 775-778. (R. P. Boas, Jr.) 33 #5855

Generalization of a problem of Schaeffer-Duffin to finite functionals. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 14-17. (P. C. Sikkema) 35 #635

An estimate of the derivatives of an algebraic polynomial in the complex plane. (Russian) *Sibirak. Mat. Ž.* 8 (1967), 952-957. (R. P. Boas, Jr.) 36 #332

An estimate of the absolute values of the derivatives of an algebraic polynomial on the complex plane. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 1 (80), 9-13. (V. M. Kokilašvili) 40 #5829

Extremal estimates of the derivatives of a trigonometric polynomial on an interval shorter than the period. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 6 (85), 62-66. (J. Szabados) 40 #3148

Estimates of the derivatives of an algebraic polynomial. (Russian) *Sibirsk. Mat. Ž.* 10 (1969), 318-328. (R. P. Boas, Jr.) 40 #605

Zingl, Harald F. K.

Quantenfeldtheorie der Leptonen. *Acta Phys. Austriaca* 19 (1965), 201-211. (G. Barton) 32 #3563

Zink, Robert E.

(with Price, J. J.) On sets of functions that can be multiplicatively completed. *Ann. of Math.* (2) 82 (1965), 139-145. (T. A. Botts) 31 #1349

(with Darst, Richard B.) On a note of Marcus concerning a problem posed by Frink. *Proc. Amer. Math. Soc.* 16 (1965), 926-928. (A. M. Bruckner) 31 #4872

On semicontinuous functions and Baire functions. *Trans. Amer. Math. Soc.* 117 (1965), 1-9. (Chr. Y. Pauc) 30 #216

(with Price, J. J.) On sets of completeness for families of Haar functions. *Trans. Amer. Math. Soc.* 119 (1965), 262-269. (R. F. Gundy) 32 #1499

A classification of measure spaces. *Colloq. Math.* 15 (1966), 275-285. (J. C. Oxtoby) 34 #298

(with Darst, R. B.) A perfect measurable space that is not a Lusin space. *Ann. Math. Statist.* 38 (1967), 1918. (H. Umegaki) 39 #989

A continuous basis for Orlicz spaces. *Proc. Amer. Math. Soc.* 21 (1969), 520-522. (K. Sundaresan) 39 #768

On a theorem of Goffman concerning Schauder series. *Proc. Amer. Math. Soc.* 21 (1969), 523-529. (R. Liedl) 39 #3224

(with Shirey, J. E.) On unconditional bases in certain Banach function spaces. *Studia Math.* 36 (1970), 169-175. (J. T. Marti) 43 #899

Zinnes, I. I.

(with Mulherin, Denis) Coulomb scattering. I. Single channel. *J. Mathematical Phys.* 11 (1970), 1402-1408. (J. M. Jauch) 41 #6510

Zinn-Justin, Jean

(with Brézin, Édouard) Un problème à *N* corps soluble. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), B670-B673. (Y. Kozai) 34 #7062

Zinn-Justin, Nicole

Dérivations dans les corps et anneaux de caractéristique *p*. *Bull. Soc. Math. France Suppl. Mém.* 10 (1967), 79 *pp.* (J. J. Etayo) 37 #196

Equations différentielles linéaires en caractéristique *p*. *Bull. Sci. Math.* (2) 93 (1969), 23-32. (J. J. Etayo) 39 #5536

Zinno, Toshiko

(with Toda, Nobushige) On Julia's exceptional functions. *Proc. Japan Acad.* 42 (1966), 1120-1121. (W. Schneider) 35 #6834

On some properties of normal meromorphic functions in the unit disc. *Nagoya Math. J.* 33 (1968), 153-164. (A. Edrei) 38 #4659

Some properties of Julia's exceptional functions and an example of Julia's exceptional functions with Julia's direction. *Ann. Acad. Sci. Fenn. Ser. A I No.* 464 (1970), 12 *pp.* (L. R. Sons) 43 #6414

Zinov'ev, A. S.

The properties of certain systems of orthogonal polynomials. (Russian) *Izv. Vysš. Učebn. Zaved Matematika* 1969, *no.* 9 (88), 30-36. (M. Tomić) 41 #4110

The convergence of Fourier-Čebyšev expansions at Lebesgue points. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 9 (1969), 58-64. (R. R. Goldberg) 43 #807

Some localization theorems. (Russian) *Ukrain. Mat. Ž.* 22 (1970), 364-369. (R. R. Goldberg) 42 #2243

Zinov'ev, B. S.

On certain integral representations of functions holomorphic in bicircular domains. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 137, 205-208 (1964). (A. J. Lohwater) 32 #5925

Zinterhof, Peter

Einige zahlentheoretische Methoden zur numerischen Quadratur und Interpolation. *Österreich. Akad. Wiss. Math.-Natur. Kl. S.-B. II* 177 (1969), 51-77. (E. Karst) 40 #2232

(with Schmidt, K.) Über Quadraturformeln auf T^{ω}. (English summary) *Computing (Arch. Elektron. Rechnen)* 6 (1970), 94-96. (Authors' summary) 43 #5725

Zu einem Banachraum analytischer Funktionen von H. Hornich. *Monatsh. Math.* 74 (1970), 179-182. (J. A. Cima) 41 #5956

Ziomek, Leo

On the boundary behavior in the metric L^p of subharmonic functions. *Studia Math.* 29 (1967), 97-105. (M. Brelot) 36 #4006

Zionts, Stanley

(with Glover, Fred) A note on the additive algorithn of Balas. *Operations Res.* 13 (1965), 546-549. (D. R. Fulkerson) 32 #1016

Toward a unifying theory for integer linear programming. *Operations Res.* 17 (1969), 259-267. (T. L. Saaty) 39 #5146

Zipalova, V. F.

(with Vorovič, I. I.) On the solution of nonlinear boundary value probelms of the theory of elasticity by a method of transformation to an initial value Cauchy problem. *Prikl. Mat. Meh.* 29 (1965), 894-901 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 1055-1063 (1966). (W. E. Boyce) 40 #1067

Zipoy, David M.

Topology of some spherioidal metrics. *J. Mathematical Phys.* 7 (1966), 1137-1143. (W. Israel) 33 #7095

Light fluctuations due to an intergalactic flux of gravitational waves. *Phys. Rev.* (2) 142 (1966), 825-838. (R. K. Sachs) 33 #3754

Zippin, Leo

* Uses of infinity. New Mathematical Library, 7. *Random House, New York-Toronto,* 1962. vii + 151 pp. (Editors) 31 #280

Zippin, M.

(with Lazar, A.) On finite dimensional subspaces of Banach spaces. *Israel J. Math.* 3 (1965), 147-156. (B. S. Mitjagin) 34 #588

On a certain basis in c_0. *Israel J. Math.* 4 (1966), 199-204. (A. Pełczyński) 34 #4880

On perfectly homogeneous bases in Banach spaces. *Israel J. Math.* 4 (1966), 265-272. (W. R. Transue) 35 #705

A remark on bases and reflexivity in Banach spaces. *Israel J. Math.* 6 (1968), 74-79. (W. E. Bonnice) 38 #4972

(with Lindenstrauss, J.) Banach spaces with a unique unconditional basis. *J. Functional Analysis* 3 (1969), 115-125. (J. T. Marti) 38 #4963

(with Lindenstrauss, J.) Banach spaces with sufficiently many Boolean algebras of projections. *J. Math. Anal. Appl.* 25 (1969), 309-320. (J. F. Smith) 38 #4964

On some subspaces of Banach spaces whose duals are L_1 spaces. *Proc. Amer. Math. Soc.* 23 (1969), 378-385. (D. E. Wulbert) 39 #7400

Existence of universal members in certain families of bases of Banach spaces. *Proc. Amer. Math. Soc.* 26 (1970), 294-300. *Proc. Amer. Math. Soc.* 26 (1970), 294-300. (M. M. Day) 41 #8976

(with Johnson, W. B.; Rosenthal, H. P.) On bases, finite dimensional decompositions and weaker structures in Banach spaces. *Israel J. Math.* 9 (1971), 488-506. (J. T. Marti) 43 #6702

Zirakzadeh, A.

A property of a triangle inscribed in a convex curve. *Canad. J. Math.* 16 (1964), 777-786. (H. T. Croft) 30 #5225

(with Eggleston, H. G.) A property of two chords which divide a convex curve into four arcs of equal length. *Canad. J. Math.* 17 (1965), 63-77. (Z. Nádeník) 32 #8253

An exact perimeter inequality for the pedal triangle. *Math. Mag.* 39 (1966), 96-99. (E. Morgantini) 33 #4755

A model for the finite projective spaces with three points on every line. *Amer. Math. Monthly* 76 (1969), 774-778. (J. D. Swift) 40 #3419

Zirilli, Francesco

Ipersuperficie ricorrenti di uno spazio euclideo. *Ricerche Mat.* 12 (1963), 181-194. (G. Vranceanu) 29 #4004

Su due teoremi di decomposizione per le proiettività del piano. *Ist. Lombardo Accad. Sci. Lett. Rend. A* 99 (1965), 904-910. (D. Gallarati) 33 #6484

Sulla struttura del gruppo delle proiettività del piano. *Ist. Veneto Sci. Lett. Arti Atti Cl. Sci. Mat. Natur.* 124 (1965/66), 415-442. (E. Morgantini) 39 #2063

Polarità determinata da un complesso lineare di S_3 in S_n nello spazio della grassmanniana delle rette. (English summary) *Rend. Accad. Sci. Fis. Mat. Napoli* (4) 32 (1965), 19-25. (D. Gallarati) 34 #6609

C-struttura associata ad una cubica piana e *C*-struttura astratta. *Ricerche Mat.* 16 (1967), 202-232. (D. Betten) 38 #6453

Sopra certi quasigruppi semisimmetrici mediali. *Ricerche Mat.* 17 (1968), 234-253. (B. H. Neumann) 43 #2144

Žirnov, N. I.

The second approximation in the generalized WKB-method. I, II. (Russian) *Izv. Vysš. Učebn. Zaved Fizika* 1968, *no.* 3, 58-66; *ibid.* 1968, *no.* 9, 25-30. (J. Burlak) 38 #3006

The second approximation in the generalized WKB method. III. (Russian) *Izv. Vysš. Učebn. Zaved. Fizika* 1968, *no.* 11, 108-118. (J. Burlak) 39 #1181

On the investigation of the asymptotic properties of solutions of the wave equation at singular points of the potential. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 443-447. (A. D. Solomon) 39 #1182

Žirnova, G. A.

A certain theorem of interpolational character. (Russian) *Moskov. Oblast. Ped. Inst. Učen. Zap.* 188, 251-254 (1967). (H. E. Warren) 39 #7330

Žislin, G. M.

(with Sigalov, A. G.) On the mixed spectrum of certain higher-dimensional differential operators of quantum mechanics. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 1329-1331. (E. L. Hill) 29 #3142

A condition for the discreteness of the negative spectrum of the Schrödinger operator. (Russian) *Uspehi Mat. Nauk* 19 (1964), *no.* 6 (120), 155-160. (R. C. Gilbert) 30 #2350

(with Sigalov, A. G.) The spectrum of the energy operator for atoms with fixed nuclei on subspaces corresponding to irreducible representations of the group of permutations. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 835-860. (R. C. Gilbert) 33 #2289

(with Sigalov, A. G.) On certain mathematical problems of the theory of atomic spectra. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 29 (1965), 1261-1272. (Z. Janković) 32 #8878

Spectrum of the energy operator of molecule type systems on spaces of functions with given symmetry. (Russian) *Dokl. Akad. Nauk SSSR* 175 (1967), 521-524. (R. C. Gilbert) 36 #1171

An investigation of the spectrum of differential operators of many particle quantum mechanical systems in function spaces of given symmetry. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 33 (1969), 590-649. (Author's summary (RŽMat 1970 #1 B717)) 42 #1448

(with Golovin, O. N.; Kronrod, A. S.; Landis, E. M.; Ljusternik, L. A.; Šilov, G. E.) Aleksandr Grigor'evič Sigalov. Obituary. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 5 (155), 227-234. (1 *plate*) (Editors) 44 #2557

Zisman, Michel

* (with Gabriel, P.) Calculus of fractions and homotopy theory. Ergebnisse der Mathematik und ihrer Grenzgebiete, Band 35. *Springer-Verlag New York, Inc., New York,* 1967. x + 168 *pp.* (A. K. Bousfield) 35 #1019

Derived category and Poincaré duality. *Category Theory, Homology Theory and their Applications, I (Battelle Institute Conference, Seattle, Wash.,* 1968, *Vol. One), pp.* 205-216. *Springer, Berlin,* 1969. (J. A. Schafer) 42 #3151

K-théorie élémentaire. *Séminaire Heidelberg-Saarbrücken-Strasbourg sur la k-théorie* (1967/68), *pp.* 11-65. *Lecture Notes in Mathematics, Vol.* 136. *Springer, Berlin,* 1970. (J. A. Schafer) 42 #2480

Complexes de faisceaux parfaits. *Symposia Mathematica, Vol. IV (INDAM, Rome,* 1968/69), pp. 285-302. *Academic Press, London,* 1970. (J. A. Schafer) 43 #7487

Žitarašu, N. V.

A priori estimates and solvability of general boundary problem for general elliptic systems with discontinuous coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 165 (1965), 24-27. (R. Carroll) 35 #1931

Schauder estimates and solvability of general boundary value problems for general parabolic systems with discontinuous coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 511-514. (R. Guenther) 34 #482

(with Eĭdel'man, S. D.) Nonlocal boundary value problems for elliptic equations. (Russian) *Mat. Issled.* 6 (1971), *vyp.* 2 (20), 63-73, 159-160. (V. V. Barkovskiĭ) 44 #7119

Zitarosa, Antonio

Sul problema di Nicoletti per le equazioni a derivate parziali *Matematiche (Catania)* 17 (1962), 85-120. (A. Pozzi) 29 #6151

Su di una classe di sistemi di tipo ellittico di equazioni quasi-lineari del primo ordine. *Ricerche Mat.* 12 (1963), 151-178. (M. Schechter) 30 #343

Sul problema di Dirichlet per le equazioni ellittiche non lineari in due variabili. *Matematiche (Catania)* 19 (1964), 144-156. (P. C. Fife) 30 #5047

Sull'esistenza di una misura invariante. *Ricerche Mat.* 13 (1964), 106-117. (N. Dinculeanu) 29 #4865

Sulle misure invarianti, equivalenti ad una misura assegnata. *Ricerche Mat.* 13 (1964), 135-144. (N. Dinculeanu) 29 #4866

Sul metodo delle iterate per la ricerca dei punti uniti di una trasformazione continua di uno spazio di Hausdorff in sè. *Matematiche (Catania)* 23 (1968), 408-416. (M. Edelstein) 40 #493

Una generalizzazione del teorema di Banach sulle contrazioni. *Matematiche (Catania)* 23 (1968), 417-424. (R. B. Fraser, Jr.) 40 #6526

Su una classe di trasformazioni continue di uno spazio matric completo in sè. *Ricerche Mat.* 17 (1968), 221-233. (R. A. Alò) 40 #8038

Zítek, František

On the convergence of sequences of stochastic processes. (Czech and Russian summaries) *Časopis Pěst. Mat.* 88 (1963), 283-294. (T. Kawata) 32 #490

Quelques remarques au sujet de l'untropie du tchèque. *Trans. Third Prague Conf. Information Theory, Statist. Decision Functions, Random Processes (Liblice,* 1962), *pp.* 841-846. *Publ. House Czech. Acad. Sci., Prague,* 1964. (H. P. Edmundson) 29 #6969

Sur certains problèmes combinatoires et leurs applications. (Czech and Russian summaries) *Časopis Pěst. Mat.* 90 (1965), 261-272. (M. Gross) 32 #7365

Fonctions aléatoires d'intervalle. IV. (Russian summary) *Czechoslovak Math. J.* 15(90) (1965), 416-435. (H. M. Taylor) 35 #6198

Sur quelques théorèmes limites pour les fonctions aléatoires. (Czech and Russian summaries) *Časopis Pěst. Mat.* 91 (1966), 453-462. (T. Kawata) 36 #4621

Sur la norme de Fourier. *Časopis Pěst. Mat.* 93 (1968), 349-353. (G. I. Gaudry) 40 #4744

* Ztracený čas (Elementy teorie hromadné obsluhy). (Czech) [Lost time (Elementary queueing theory)] Cesta k Vědění, 14. *Academia [Nakladatelství Československé Akademie Věd], Prague*, 1969. 179 *pp. (loose errata).* (E. Seneta) 40 #5047

Über die Kundenreihenfolge in Bedienungssystemen. (Czech summary; loose English summary) *Apl. Mat.* 15 (1970), 356-383. (H. L. Seal) 42 #2569

Sur la norme de Fourier. II. *Časopis Pěst. Mat.* 95 (1970), 62-65. (J. D. Stafney) 44 #5758

Žitel'zeĭf, E. D.

A test for the existence of a periodic solution of the Liénard equation. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1127-1130. (G. Ladas) 42 #6359

The limit cycles of a certain autonomous system. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1967-1973. (L. Reiziņš) 44 #7041

Žiteneva, Ju. A.

(with Mil'šteĭn, G. N.) The minimization of a convex functional by the free trajectroies of a linear system. (Russian) *Differencial'nye Uravnenija* 3 (1967), 2081-2093. (G. M. Ewing) 36 #7001

Zitko, Jan

(with Humhal, E.) A note on the supperrelaxation method. (Czech. Russian and English summaries) *Apl. Mat.* 12 (1967), 161-170. (S. Malon) 36 #7307

Generalization of the minimax method for calculation of the spectral radius of a matrix. (Czech summary) *Apl. Mat.* 15 (1970), 41-62. (W. C. Theinboldt) 40 #3706

itlanadze, E. S. See Citlanadze, E. S.

itnickiĭ, B. L.

Deformations of homogeneous fiberings. (Russian) *Mat. Zametki* 3 (1968), 651-656. (C. Teleman) 38 #6624

itomirskiĭ, G. I.

Homomorphisms of generalized heaps. (Russian) *Works of Young Scientists (Russian), pp.* 31-36. *Izdat. Saratov. Univ., Saratov*, 1964. (B. M. Schein (Šaĭn)) 32 #2504

* (with Gohman, A. V.; Spivak, M. A.; Rozen, V. V.; Ryžkov, A. G.; Saliĭ, V. N.; Šimel'fenig, O. V.) Сборник задач по математической логике и алгебре множеств (Russian) [Collection of problems in mathematical logic and algebra of sets] *Izdat. Saratov. Univ., Saratov*, 1965. 87 *pp.* (E. Mendelson) 34 #1196

On the lattice of congruence relations in a generalized heap, (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 1 (44), 56-61. (E. J. Tully) 31 #2190

On homomorphisms of generalized heaps. (Russian) *Theory of Semigroups and Appl. I (Russian), pp.* 229-237. *Izdat. Saratov. Univ., Saratov*, 1965. (K. Drbohlav) 34 #272

Imprimitivity relations of generalized groups of transformations. (Russian) *Mat. Sb. (N.S.)* 73(115) (1967), 500-512. (B. M. Schein (Šaĭn)) 36 #295

Regular and stable relations on generalized heaps. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 1 (68), 64-77. (K. Drbohlav) 38 #5979

Stable binary relations on universal albegras. (Russian) *Mat. Sb. (N.S.)* 82(124) (1970), 163-174. (G. M. Bergman) 41 #8328

itomirskiĭ, I. S.

Certain questions of the theory of jump processes with deterministic segments. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 2 (1966), 116-127. (J. L. Doob) 35 #3747

tomirskiĭ, Ja. I.

On a theorem of Liouville type. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1961, *no.* 1 (20), 66-76. (R. K. Juberg) 29 #1445

The Cauchy problem for certain types of systems of partial differential equations with variable coefficeints. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* (4) 28 (1961), 64-72. (L. Volevič (RŽMat 1964 #7 B360)) 40 #3060

(with Borok, V. M.) On stability classes of correct Cauchy problems for an I. G. Petrovskiĭ-correct equation. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 495-498. (A. D. Solomon) 33 #6125

Exact classes of uniqueness of solution of the Cauchy problem for equations of second order. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 29-32. (R. Guenther) 34 #1706

(with Borik, V. M.) Fundamental solution of problems which are correct in the sense of I. G. Petrovskiĭ. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 951-968. (R. Guenther) 35 #522

(with Borok, V. M.) The Cauchy problem for equations of odd order which are correct in the sense of I. G. Petrovskiĭ. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 30 (1966), 1133-1146. (R. Carroll) 34 #1683

Classes of uniqueness for solution of the Cauchy problem. (Russian) *Uspehi Mat. Nauk* 21 (1966), *no.* 5 (131), 269-270. (G. W. Hedstrom) 34 #1655

Classes of uniqueness of solution of the Cauchy problem for linear equations with rapidly growing coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 26-29. (P. Grisvard) 35 #4579

Classes of uniqueness of solution of the Cauchy problem. (Russian) *Dokl. Akad. Nauk SSSR* 172 (1967), 1258-1261. (P. Grisvard) 35 #4578

Classes of uniqueness of solution of the Cauchy problem for linear equations with increasing coefficients. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 763-782. (A. Friedman) 36 #517

Classes of uniqueness of solution of the Cauchy problem for linear equations with rapidly increasing coefficients. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 31 (1967), 1159-1178. (P. Ungar) 36 #5538

Classes of uniqueness and nonuniqueness of the solution of the Cauchy problem for a second-order equation. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 4 (1967), 87-115. (Z. Zieleźny) 37 #1767

Exact classes of uniqueness of solution of the Cauchy problem for second order equations. (Russian) *Teor. Funkciĭ Funkcional. Anal. i Priložen. Vyp.* 5 (1967), 177-188. (H. Triebel) 37 #1794

Differential operators of infinite order in spaces of type *S*. (Russian) *Mat. Sb. (N.S.)* 80(122) (1969), 405-416. (J. Peetre) 41 #871

Žitomirskiĭ, V. G.

The triangular group of automorphisms of a direct product of groups. (Russian) *Ural. Gos. Univ. Mat. Zap.* 3, *tetrad'* 3, 30-36 (1962). (L. Fuchs) 30 #2088

The triangular group of automorphisms of a direct product of groups. II. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4, *tetrad'* 1, 40-44 (1963). (L. Fuchs) 34 #4384

The triangular group of automorphisms of a direct product of groups. III. (Russian) *Ural. Gos. Univ. Mat. Zap.* 4 *tetrad'* 3, 89-94 (1963). (L. Fuchs) 34 #4385

Automorphisms of direct products. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967), 58-59. (B. Hartley) 40 #5718

Zitron, Norman

Diffraction by a slit of intermediate width in an anisotropic plasma. *Canad. J. Phys.* 44 (1966), 1067-1078. (Author's summary) 33 #3600

Zittartz, Johannes

Funktionalmittelwerte in der statistischen Theorie von quantenmechanischen und klassischen Systemen vieler Teilchen. (English summary) *Z. Physik* 180 (1964), 219-254. (PA 67 #27095) 36 #3552

Ziv, Jacob

Successive decoding scheme for memoryless channels. *IEEE Trans. Information Theory* IT-9 (1963), 97-104. (S. S. Shrikhande) 30 #4614

Probability of decoding error for random phase and Rayleigh fading channels. *IEEE Trans. Information Theory* IT-11 (1965), 53-61. 32 #3929

Necessary and sufficient conditions for the existence of the ε-property (A.E.P.) *Information and Control* 12 (1968), 173-192. (L. L. Campbell) 38 #5519

(with Wyner, Aaron D.) On communication of analog data from a bounded source space. *Bell System Tech. J.* 48 (1969), 3139-3172. (S. Csibi) 43 #1733

(with Zakai, Moshe) On the threshold effect in radar range estimation. *IEEE Trans. Information Theory* IT-15 (1969), 167-170. (Authors' summary) 39 #2523

(with Zakai, Moshe) Some lower bounds on signal parameter estimation. *IEEE Trans. Information Theory* IT-15 (1969), 386-391. (Authors' summary) 39 #5236

(with Shepp, Lawrence A.; Wolf, Jack K.; Syner, Aaron D.) Binary communication over the Gaussian channel using feedback with a peak energy constraint. *IEEE Trans. Information Theory* IT-15 (1969), 476-478. (Authors' summary) 39 #5231

The capacity of the general time-discrete channel with finite alphabet. *Information and Control* 14 (1969), 233-251. (Author's summary) 39 #5237

(with Wolf, Jack K.) Transmission of noisy information to a noisy receiver with minimum distortion. *IEEE Trans. Information Theory* IT-16 (1970), 406-411. (Authors' summary) 42 #7384

(with Wolf, J. K.; Wyner, A. D.) The channel capacity of the postal channel. *Information and Control* 16 (1970), 167-172. (Authors' summary) 42 #2855

The behavior of analog communication systems. *IEEE Trans. Information Theory* IT-16 (1970), 587-594. (S. Butman) 43 #3032

Ziv, Moche

The decay of leading elastic waves by the theory of characteristics. (French, German, Italian and Russian summaries) *Internat. J. Engrg. Sci.* 8 (1970), 483-497. (Author's summary) 41 #4878

Živanović, Žarko

(with Vasić, Petar M.) Über eine Ungleichung die sich auf regelmässige Polygone bezieht. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 67-68. (Z. Daróczy) 36 #7024

Certaines inégalités relatives au triangle. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 181-196 (1967), 69-72. (H. T. Croft) 37 #813

Inequalities for simplexes. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 230-241 (1968), 37-38. (H. T. Croft) 39 #7509

Über eine Verallgemeinerung eines Satzes von N. Abramescu. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 4(24) (1969), 283-289. (E. Morgantini) 41 #2545

A certain limit in curve theory. (Russian) *Mat. Vesnik* 7(22) (1970), 383-388. (V. Volenec) 42 #6730

Živogljadov, V. P.

On optimal dual control for pure delay. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 54-66. (Author's summary) 32 #2247

Application of statistical solution theory to control problems with indirect index. (Russian. English summary) *Avtomat. i Telemeh.* 25 (1964), 1451-1461. (Author's summary) 29 #5680

(with Maslov, E. P.) A problem of estimation of the essential parameters of an object. (Russian) *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1964, *no.* 1, 175-181. (W. H. Fleming) 31 #3246

A method of synthesis of suboptimal dual control systems. (Russian. English summary) *Avtomat. i Telemeh.* 26 (1965), 58-66. (Author's summary) 30 #2981

Dual control in the absence of a priori information concerning the plant's unknown parameters. *Avtomat. i Telemeh.* 26 (1965), 809-815 *(Russian. English summary); translated as Automat. Remote Control* 26 (1965), 809-816. 32 #3915

Živopiscev, F. A.

Some properties of irreversible quantum-mechanical processes. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 2, 8-15. (R. Balescu) 29 #1962

Non-elastic scattering of nucleaons on nuclei and the method of quantum Green's functions. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1964, *no.* 4, 45-51. (M. Blažek) 29 #5538

(with Judin, N. P.) Correlation effects in the ground state in nuclear reactions. (Russian) *Vestnik Moskov. Univ. Ser. III Fiz. Astronom.* 1965, *no.* 2, 30-34. (Z. Janković) 32 #5236

Životovskiĭ, A. A.

(with Adel'son-Vel'skiĭ, G. M.; Arlazarov, V. L.; Bitman, A. R.; Uskov, A. V.) On programming a computer for playing chess. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 2·(152), 221-260. (M. Iosifescu) 41 #6575

Životovskiĭ, L. A.

Conditions of incompatibility of a system of non-linear inequalities, determination of its incompatibility and an iterative solution of the problem of convex programming. (Russian) *Comput. Methods Programming, V (Russian), pp.* 124-133. *Izdat. Moskov. Univ., Moscow,* 1966. (M. Iosifescu) 36 #3579

Estimation of the number of characteristic frequencies of a differential equation with several lags. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 6 (1968), 203-206. (S. P. Hastings) 39 #1776

The existence and uniqueness of the solutions of differential equations with a retardation which depends on the solution and its derivative. (Russian) *Differencial'nye Uravnenija* 5 (1969), 880-889. (J. K. Hale) 39 #7249

(with Berkovič, M. M.) Solution of an allocation problem. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1969, *no.* 3, 22-25 *(Russian); translated as Engrg. Cybernetics* 1969, *no.* 3, 20-23. (D. Hochstädter) 43 #1617

Absolute stability of the solutions of differential equations with several lags. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 82-91. (J. K. Hale) 39 #7250

Differential equations with deviating argument dependent on the derivative of the solution, considered in a Banach space with a cone. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1247-1256. (K. Smítalová) 42 #6385

(with Norkin, S. B.) Solutions with gaps and generalized solutions of differential equations with deviating argument. (Russian) *Ukrain. Mat. Z.* 22 (1970), 542-549. (S. P. Hastings) 43 #3591

Existence theorems and uniqueness classes of the solutions of functional equations with heredity. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1377-1384, 1539. (J. Carkovs) 44 #7099

Živov, V. S.

On the stability of trajectories. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1964, *no.* 2 (39), 79-81. (C. S. Coleman) 29 #320

Ziza, O. A.

Summability of orthogonal series by Euler methods. (Russian) *Mat. Sb. (N.S.)* 66(108) (1965), 354-377. (Editors) 31 #560

Some remarks on the summability of orthogonal series by the Voronoĭ method and on their generalizations. (Russian) *Moskov. Inst. Èlektron. Mašinostroenija--Trudy MIÈM* 1968, *vyp.* 4, 79-89. (V. I. Mel'nik) 44 #4453

Žižčenko, A. B.

(with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraic surfaces. (Russian) *Trudy Mat. Inst. Steklov.* 75 (1965), 1-215. (E. C. Dade) 32 #7557

* (with Šafarevič, I. R.; Averbuh, B. G.; Vaĭnberg, Ju. R.; Manin, Ju. I.; Moĭšezon, B. G.; Tjurina, G. N.; Tjurin, A. N.) Algebraische Flächen. Redaktion I. R. Šafarevič. Mathematik und ihre Anwendungen in Physik und Technik Reihe A, Band 31. *Akademische Verlagsgesellschaft Geest & Portig K.-G., Leipzig,* 1968. 303 *pp.* (Editors) 37 #6285

Žiziašvili, L. V.

Some properties of the (C, α)-means of Fourier series and the conjugate trigonometric series. (Russian) *Mat. Sb. (N.S.)* 63(105) (1964), 489-504. (M. Tomić) 29 #419

On the absolute convergence of double Fourier series. (Russia Georgian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964), 135-139. (M. Tomić) 31 #5034

On asymptotic limits. (Russian. Georgian summary) *Tbiliss. Gos. Univ. Trudy Ser. Meh.-Mat. Nauk* 102 (1964), 141-147. (J. Mayer) 31 #5024

On certain properties of Cesàro means of Fourier series and of conjugate trigonometric series. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Donf., Baku, 1962)(Russian), pp.* 440-446. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. (R. R. Goldberg) 33 #4592

* Некоторые вопросы теории рядов Фурье и сопряженных к ним тригонометрических рядов. (Russian) [Certain questions of the theo of Fourier series and their conjugate trigonometric series] *Izdat Tbilis. Univ., Tbilisi,* 1965. 190 *pp. (errata fold-out)* (S. Verblunsky) 33 #7791

On conjugate functions. (Russian) *Dokl. Akad. Nauk SSSR* 167 (1966), 278-281. (E. Riekstiņš) 33 #1648

Conjugate functions and Fourier series. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 43 (1966), 283-286. (S. Verblunsky) 34 #552

Certain properties of the Cesàro means of Fourier series. (Russian) *Trudy Moskov. Mat. Obšč.* 15 (1966), 145-180. (D. P. Gupta) 35 #2074

Fourier series and maximum theorems. (Russian) *Dokl. Akad. Nauk SSSR* 174 (1967), 274-276. (J. Musielak) 36 #5612

Conjugate functions and trigonometric series. (Russian) *Mat. Zametki* 2 (1967), 695-702. (R. R. Goldberg) 36 #4263

Summation of double Fourier series. (Russian) *Sibirak. Mat. Z.* 8 (1967), 548-564. (F. Ustina) 36 #609

Generalization of a certain theorem of Marcinkiewicz. (Russia *Izv. Akad. Nauk SSSR Ser. Mat.* 32 (1968), 1112-1122. (G. Sunouchi 38 #2530

A generalization of a theorem of M. Riesz to the case of several variables. (Russian) *Mat. Zametki* 4 (1968), 269-280. (R. P. Boas, Jr.) 38 #3694

* Сопряженные фунции и тригонометрические ряды. (Russian) [Conjugate functions and trigonometric series] *Izdat. Tbilis. Univ., Tbilisi,* 1969. 271 *pp. (errata insert)* (R. R. Goldberg) 41 #5891

The divergence of Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 758-759. (D. P. Gupta) 42 #8153

Convergence and divergence of Fourier series. *Dokl. Akad. Nauk SSSR* 199 (1971), 1234-1236 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1261-1263. (H. R. Pousson) 44 #5695

Zizler, Václav

On the differentiability of mappings in Banach spaces. *Comment. Math. Univ. Carolinae* 8 (1967), 415-430. (R. H. Moore) 37 #3356

(with Kolomý, Josef) Remarks on the differentiability of mappings in linear normed spaces. *Comment. Math. Univ. Carolinae* 8 (1967), 691-704. (E. Dubinsky) 38 #2596

Banach spaces with the differentiable norms. *Comment. Math. Univ. Carolinae* 9 (1968), 415-440. (M. J. Fisher) 39 #7427

One theorem on rotundity and smoothness of separable Banach spaces. *Comment. Math. Univ. Carolinae* 9 (1968), 637-640. (J. A. R. Holbrook) 41 #798

Some notes on various rotundity and smoothness properties of separable Banach spaces. *Comment. Math. Univ. Carolinae* 10 (1969), 195-206. (R. Bonic) 39 #7401

Zjablov, V. V.

Piecewise-cyclic codes and their majority decoding schemes. *Problemy Peredači Informacii* 4 (1968), *vyp.* 2, 31-37 *(Russian); translated as Problems of Information Transmission* 4 (1968), *no.* 2, 23-27 (1971). (C. Tartia) 44 #3767

Zjuzin, V. E.

(with Gromova, L. L.) On certain classes of analytic functions. (Russian) *Volž. Mat. Sb. Vyp.* 3 (1965), 114-116. (R. J. Libera) 33 #4255

Zjuzin, V. S.

Calculation of hypergeometric functions and estimation of the error. (Russian) *Volž. Mat. Sb. Vyp.* 4 (1966), 75-81. (R. G. Langebartel) 35 #2465

Zlámal, Miloš

The parabolic equations as a limiting case of hyperbolic and elliptic equations. *Differential Equations and Their Applications (Proc. Conf., Prague, 1962), pp.* 243-247. *Publ. House Czechoslovak Acad. Sci., Prague; Academic Press, New York,* 1963. (N. K. Chakravarty) 31 #1477

Asymptotic error estimates in solving elliptic equations of the fourth order by the method of finite differences. *J. Soc. Indust. Appl. Math. Ser. B Numer. Anal.* 2 (1965), 337-344. (H. J. Stetter) 32 #1918

(with Metcalf, F. T.) On the zeros of solutions to Bessel's equation. *Amer. Math. Monthly* 73 (1966), 746-749. (R. Campbell) 34 #388

On the estimate of the error of quadrature formulae. (Czech and Russian summaries) *Apl. Mat.* 11 (1966), 423-426. (F. Stenger) 35 #3886

Discretization and error estimates for boundary value problems of the second order. *Calcolo* 4 (1967), 541-550. (Author's summary) 43 #1444

Discretization and error estimates for elliptic boundary value problems of the fourth order. *SIAM J. Numer. Anal.* 4 (1967), 626-639. (J. H. Bramble) 36 #3516

On the finite element method. *Numer. Math.* 12 (1968), 394-409. (G. Fairweather) 39 #5074

(with Bramble, J. H.; Hubbard, B. E.) Discrete analogues of the Dirichlet problem with isolated singularities. *SIAM J. Numer. Anal.* 5 (1968), 1-25. (P. Laasonen) 39 #1127

On mildly nonlinear elliptic boundary value problems. *Information Processing* 68 *(Proc. IFIP Congress, Edinburgh,* 1968*), Vol.* 1: *Mathematics, Software, pp.* 179-182. *North-Holland, Amsterdam,* 1969. (S. V. Parter) 41 #2943

On some finite element procedures for solving second order boundary value problems. *Numer. Math.* 14 (1969/70), 42-48. (P. G. Ciarlet) 41 #1244

A finite element procedure of the second order of accuracy. *Numer. Math.* 14 (1969/70), 394-402. (G. N. Lance) 41 #1233

(with Ženíšek, Alexander) Convergence of a finite element procedure for solving boundary value problems of the fourth order. *Internat. J. Numer. Methods Engrg.* 2 (1970), 307-310. (M. N. L. Narasimhan) 44 #1246

(with Bramble, James H.) Trianglar elements in the finite element method. *Math. Comp.* 24 (1970), 809-820. (J. G. Herriot) 43 #8250

Zlatev, I. S.

(with Nikolov, A. V.) Analytic properties of the Feynman amplitude. I. (Russian. Bulgarian and English summaries) *Annuaire Univ. Sofia Fac. Sci. Phys. Math. Livre* 2 *Phys.* 56 (1961/62), 51-87 (1963). (Authors' summary) 29 #3158

(with Isaev, P. S.; Popov, Hr. D.) A model for the scattering amplitude of pseudoscalar π-meson. (Bulgarian. English summary) *Annuaire Univ. Sofia Fac. Phys.* 63 (1968/69), 25-48 (1971). 43 #8309

Zlebov, E. D.

Pisot-Vijayaraghavan numbers and basic units of algebraic fields. (Russian) *Vesci Akad. Navuk BSSR Ser. Fiz.-Mat. Navuk* 1966, *no.* 4, 110-112. (R. Finkelstein) 34 #7494

Zlobec, Sanjo

On computing the generalized inverse of a linear operator. (Serbo-Croatian summary) *Glasnik Mat. Ser. III* 2(22) (1967), 265-271. (B. N. Parlett) 38 #3281

(with Ben-Israel, A.) On explicit solutions of interval linear programs. *Israel J. Math.* 8 (1970), 12-22. (W. F. Tyndall) 41 #5049

Asymptotic Kuhn-Tucker conditions for mathematical programming problems in a Banach space. *SIAM J. Control* 8 (1970), 505-512. (J. Stoer) 43 #1641

An explicit form of the Moore-Penrose inverse of an arbitrary complex matrix. *SIAM Rev.* 12 (1970), 132-134. (M. F. Smiley) 41 #222

ločevskiĭ, S. I.

A problem of motion control. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I. Mat. Meh.* 1965, *no.* 5, 68-72. (O. Gürel) 33 #2923

The problem of admissible initial deviations. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 23 (1968), *no.* 6, 102-108. (D. Bobrowski) 40 #8470

łotkiewicz, Eligiusz J.

(with Lewandowski, Zdzisław) Variational formulae for functions meromorphic and univalent in the unit disc. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 17 (1963), 47-53 (1965). (L. Sario) 33 #4256

Sur les domaines des valeurs de certaines fonctionnelles dans la classe $U(p)$. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 18 (1964), 73-83 (1967). (Hari Shankar) 39 #4376

(with Lewandowski, Z.) Variational formulae for functions meromorphic and univalent in the unit disc. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 12 (1964), 253-254. (M. Reade) 29 #3626

(with Lewandowski, Z.; Reade, M. O.) On a certain condition for univalence. (Romanian and Russian summaries) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11B (1965), 119-123. (T. Kubo) 34 #329

(with Lewandowski, Z.) On the domain of variability of the second coefficient for a class of meromorphic, univalent functions. *Bull. Acad. Polon. Sic. Sér. Sci. Math. Astronom. Phys.* 13 (1965), 21-25. (M. Reade) 31 #3593

(with Krzyż, J.) Koebe sets for univalent functions with two preassigned values. *Ann. Acad. Sci. Fenn. Ser. A I No.* 487 (1971), 12 *pp.* (R. J. Libera) 43 #7612

(with Reade, Maxwell O.) Koebe sets for univalent functions with two preassigned values. *Bull. Amer. Math. Soc.* 77 (1971), 103-105. (J. Nikolaus) 42 #3267

(with Reade, Maxwell O.) On univalent functions with two preassigned values. *Proc. Amer. Math. Soc.* 30 (1971), 539-544. (M. S. Robertson) 44 #422

Zlotnik, B. M.

(with Levin, B. R.) Energy spectra of code sequences of constant weight. *Radiotehn. i Èlektron.* 9 (1964), 1868-1882 *(Russian); translated as Radio Engrg. Electron. Phys.* 9 (1964), 1559-1563. 32 #7315

Zlotnik, E. Ja.

(with Železnjakov, V. V.) Polarization of radio waves passing through a transverse magnetic field region in the solar corona. *Astronom. Ž.* 40 (1963), 633-642 *(Russian); translated as Soviet Astronom. AJ* 7 (1964), 485-491. (J. N. Kapur) 31 #4326

Zmorovič, V. A.

On the radius of ϑ-spirality of θ-spiral functions in the circle $|z| < 1$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 1262-1265. (Z. Lewandowski) 32 #7738

On certain theorems of the theory of extremal estimates in special classes of analytic functions. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1965, 980-984. (J. G. Krzyż) 33 #5874

On bounds of convexity for starlike functions of order α in the circle $|z| < 1$ *and in the circular region* $0 < |z| < 1$. (Russian) *Mat. Sb. (N.S.)* 68(110) (1965), 518-526. (J. G. Krzyż) 33 #5875

On a class of extremal problems associated with regular functions with positive real part in the circle $|z| < 1$. (Russian) *Ukrain. Mat. Ž.* 17 (1965), *no.* 4, 12-21. (W. C. Royster) 33 #5901

Rotation theorems for the classes $S_\alpha{}^*(m)$ and $\tilde{S}_\gamma(m, \alpha; n)$ for functions univalent in $|z| < 1$. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR* 1966, 1117-1121. (K. W. Lucas) 34 #2857

On the boundaries of star likeness and boundaries of univalence of certain classes of functions regular in the disc $|z| < 1$. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 3, 28-39. (David A. Brannan) 33 #7525

(with Dobrovol's'kiĭ, V. O.) Aleksandr Stepanovič Smogorževskiĭ. (Russian) *Ukrain. Mat. Ž.* 18 (1966), *no.* 5, 94-96. (Editors) 33 #5433

(with Ačilov, H.) On a class of univalent mappings of a circular ring. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 3, 17-22. (R. J. Libera) 35 #5602

(with Burlačenko, V. P.) The connection of integral representations of the Riemann zeta-function with double series, and integral representations of this function in any part of the complex plane. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 989-992. (K. W. Lucas) 39 #4367

(with Ačilov, H.) Extrema of certain functionals defined on the class of C-functions in the disk $|z| < 1$. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 2, 17-22. (R. A. Kordzadze) 37 #6465

Zmorovich, V. A. See Zmorovič, V. A.

Žmud', È. M.

Isomorphisms of irreducible projective representations of finite groups. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov Mat. Obšč.* (4) 26 (1960), 333-372. (A. I. Lihtman (RŽMat 1962 #3 A209)) 39 #5724

The group theoretic Möbius function. (Russian) *Zap. Meh.-Mat. Fak. i Har'kov. Mat. Obšč.* (4) 28 (1961), 73-96. (V. Turkin (RŽMat 1963 #3 A177)) 40 #2647

Structure-theoretic properties of the kernels of homomorphisms of irreducible representations of finite groups. I. (Russian. German summary) *Algebra and Math. Logic: Studies in Algebra (Russian), pp.* 98-110. *Izdat. Kiev. Univ., Kiev,* 1966. (Author's summary) 37 #5310

Finite groups with uniquely generated normal divisors. (Russian) *Mat. Sb. (N.S.)* 72(114) (1967), 135-147. (O. H. Kegel) 35 #1661

The isomorphisms of the lattice of normal divisors of a finite nilpotent groups. (Russian) *Vestnik Har'kov. Gos. Univ.* 1967, *no.* 26, 3-7. (M. Greendlinger) 40 #2761

Upper and lower complements in finite modular lattices and the theory of the linear representation of finite groups. (Russian) *Vestnik Har'kov. Gos. Univ.* 1967, *no.* 26, 8-15. (M. Kolibiar) 42 #1729

Finite groups which have a unique minimal normal divisor and a unique class of isomorphic irreducible representations. (Russian) *Vestnik Har'kov. Gos. Univ.* 1967, *no.* 26, 16-19. (P. Fong) 40 #1502

(with Kurennoĭ, G. Č.) The finite groups of units of an integral group ring. (Russian) *Vestnik Har'kov. Gos. Univ.* 1967, *no.* 26, 20-26. (R. Kochendörffer) 40 #2770

(with Ahiezer, N. I.; Ljubič, Ju. I.; Marčenko, V. A.) Izrail' Markovič Glazman: An obituary. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 5 (149), 215-226. (1 *plate*) (Editors) 41 #1488

Zmuidzinas, Jonas Stasys

Unitary representations of the Lorentz group on 4-vector manifolds. *J. Mathematical Phys.* 7 (1966), 764-780. (A. J. Coleman) 33 #2290

Żmurek, Anna

Deux remarques sur les plans osculaterus orientés. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 17 (1963), 81-83 (1965). (F. Šemin) 34 #698

Sur les hyperplans osculateurs orientés d'une courbe dans l'espace euclidien à *n* dimensions. (Polish and Russian summaries) *Ann. Univ. Mariae Curie-Skłodowska Sect. A* 18 (1964), 115-122 (1967). (T. J. Willmore) 38 #6525

Žmuro, V. P.

Reduction of the stability problem for the solutions of a differential equation with almost periodic coefficients to multidimensional determinants. (Ukrainian. English and Russian summaries) *Dopovidī Akad. Nauk Ukraïn. RSR Ser. A* 1971, 256-259, 287. (V. F. Dem'janov) 44 #4296

Znám, Štefan

On a combinatorical problem of K. Zarankiewicz. *Colloq. Math.* 11 (1963), 81-84. (J. K. Goldhaber) 29 #37

Remarks on an unpublished theorem of Pál Turán. (Hungarian. English summary) *Mat. Lapok* 14 (1963), 307-310. (Author's summary) 30 #3054

Two improvements of a result concerning a problem of K. Zarankiewicz. *Colloq. Math.* 13 (1964/65), 255-258. (J. K. Goldhaber) 32 #7434

(with Rosa, Alexander) A combinatorial problem in the theory of congruences. (Russian. English summary) *Mat.-Fys. Časopis Sloven. Akad. Vied* 15 (1965), 49-59. (B. Gordon) 32 #83

(with Rosa, Alexander) A remark on a combinatorial problem. (Russian. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 15 (1965), 313-316. (Authors' summary) 33 #3948

On Mycielski's problem on systems of arithmetical progressions. *Colloq. Math.* 15 (1966), 201-204. (J. Mycielski) 34 #134

(with Bosák, Juraj; Kotzig, Anton) Modification of semi-completeness for integer sequences. (Russian summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 187-192. (H. J. Godwin) 34 #1269

(with Bartoš, Pavel) On symmetric and cyclic means of positive numbers. (Slovak. English summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 291-298. (T. T. Tonkov) 35 #3020

Generalisation of a number-theoretical result. (Russian summary) *Mat.-Fyz. Časopis Sloven. Akad. Vied* 16 (1966), 357-361. (M. S. Cheema) 35 #78

Equivalence of a number-theoretical problem with a problem from the graph theory. *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 240-241. (J. B. Roberts) 36 #5035

On *k*-thin sets and *n*-extensive graphs. (Loose Russian summary) *Mat. Časopis Sloven. Akad. Vied* 17 (1967), 297-307. (M. S. Cheema) 38 #1022

(with Bosák, J.; Rosa, A.) On decompositions of complete graphs into factors with given diameters. *Theory of Graphs (Proc. Colloq., Tihany,* 1966*), pp.* 37-56. *Academic Press, New York,* 1968. (W. T. Tutte) 38 #2041

(with Šalát, Tibor) On sums of the prime powers. *Acta Fac. Rerum Natur. Univ. Comenian. Math. Publ.* 21 (1968), 21-24 (1969). (I. Danicic) 42 #1790

(with Bosák, Juraj; Kotzig, Anton) Strongly geodetic graphs. *J. Combinatorial Theory* 5 (1968), 170-176. (M. D. Plummer) 37 #3946

(with Guy, Richard K.) A problem of Zarankiewicz. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968*), pp.* 237-243. *Academic Press, New York,* 1969. (W. G. Brown) 41 #1557

A remark to a problem of J. Mycielski on arithmetic sequences. *Colloq. Math.* 20 (1969), 69-70. (R. L. Graham) 39 #158

On exactly covering systems of arithmetic sequences. *Math. Ann.* 180 (1969), 227-232. (L. Mirsky) 39 #4087

On exactly covering systems of arithmetic sequences. *Number Theory (Colloq., János Bolyai Math. Soc., Debrecen,* 1968*), pp.* 221-225. *North-Holland, Amsterdam,* 1970. (L. Mirsky) 42 #7586

Znojkiewicz, B.

(with Sikorski, R.) A proof of the representation theorem for the space of random variables. *Prace Mat.* 11 (1967), 175-178. (Judah Rosenblatt) 36 #3388

Zobel, Andrew

(See Scott, D. B., 31 #22)

Zobov, G. N.

The *K*-normality of cones in normed spaces. (Russian) *Proc. Central Regional Union of Math. Departments, No.* 1: *Functional Anal. and Function Theory (Russian), pp.* 86-91. *Kalinin. Gos. Ped. Inst., Kalinin,* 1970. (W. R. Transue) 43 #870a

The *K*-regularity of a cone in a linear normed space. (Russian) *Proc. Central Regional Union of Math. Departments, No.* 1: *Functional Anal. and Function Theory (Russian), pp.* 92-98. *Kalinin. Gos. Ped. Inst., Kalinin,* 1970. (W. R. Transue) 43 #870b

Zoellner, W.

(with Kaschluhn, F.) High-energy behaviour of diagrams with crossed lines. (Italian summary) *Nuovo Cimento* (10) 34 (1964), 1618-1632. (R. F. Streater) 30 #3707

Žogin, I. I.

Notes on the theory of functions and theory of numbers. (Russian) *Mat. Prosvešč.* 1958, *vyp.* 3, 147-155. (R. Spira) 36 #2567

Certain asymptotic equations connected with the problem of Dirichlet on divisors. A generalization of the Dirichlet theorem. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 31 (1965), 87-96. (S. Chowla) 36 #1406

Lambert series. I. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 31 (1965), 97-105. (R. Spira) 36 #2568

(L, α)-summation. (Russian) *Sverdlovsk. Gos. Ped. Inst. Ucen. Zap.* 54 (1967), 60-82. (Hubert Tietz) 40 #3116

The connection between the summation methods of Cesàro and Lambert. (Russian) *Mat. Zametki* 5 (1969), 521-526. (Hubert Tietz) 40 #3117

A Tauberian theorem for Lambert series. (Russian) *Sverdlovsk Gos. Ped. Inst. Učen. Zap.* 78 (1969), 40-44. (G. Halász) 44 #565

Žogina, L. I.

The approximation of cubic irrationalities by rational fractions. (Russian) *Sverdlovsk. Gos. Ped. Inst. Učen. Zap.* 54 (1967) 83-87. (Harvey Cohn) 40 #2613

Žogolev, E. A.

A conjecture concerning a procedure code. (Russian) *Z. Vyčis Mat. i Mat. Fiz.* 4 (1964), 781. (P. Constantinescu) 30 #742

The transcriptor POLIZ-63. (Russian) *Z. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), 67-76. (A. A. Mullin) 30 #2703

(with Kaufman, V. Š.) A more precise definition of the class of grammars that can be serviced by an algorithm for the selection of ideas. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 403-41 (T. Rus) 41 #3195

Zogo Memon, Ahmed. See Memon, Ahmed Zogo.

Zograf, O. N.

An example of a second order elliptic equation with continuou coefficients, for which the regularity conditions of a boundary point for the Dirichlet problem differ from the analogous conditic for the Laplace equation. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 24 (1969), *no.* 2, 30-39. (D. P. Squier) 41 #641

Zohar, Shalhav

Toeplitz matrix inversion: The algorithm of W. F. Trench. *J. Assoc. Comput. Mach.* 16 (1969), 592-601. (Author's summary) 40 #1023

Zolezzi, Tullio

Teoremi di esistenza nella teoria dei controlli ottimi in dimensione finita. (English summary) *Rend. Sem. Mat. Univ. Padova* 39 (1967), 163-176. (G. M. Ewing) 36 #7002

Teoremi di esistenza nella teoria dei controlli ottimi in dimensione finita. (English summary) *Univ. Genova Pubbl. Ist. Mat. No.* 176 (1967/69), 14 *pp.* (Editors) 37 #2548

Teoremi di esistenza nella teoria dei controlli ottimi in dimensione infinita. (English summary) *Rend. Sem. Mat. Univ. Padova* 41 (1968), 72-96. (L. Cesari) 39 #6144

Sulla stabilità, rispetto ai coefficienti, di alcuni problemi al contorno per equazioni ellittiche e paraboliche. (English summary) *Boll. Un. Mat. Ital.* (4) 3 (1970), 208-212. (Z. C. Motteler) 41 #5756

Zolin, A. F.

Solution of boundary problems for the Laplace equation by an interpolation method. (Russian) *Issled. po Mat. Analizu i Mehanike v Uzbekistane, pp.* 133-152. *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1960. (R. K. Juberg) 29 #3664

The application of polyharmonic polynomials to the solution of boundary problems for the polyharmonic equation. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1960, *no.* 6 (19), 82-92. (D. Mangeron) 30 #1309

On an approximate solution of boundary value problems for equations of the elliptic type. (Russian) *Proc. First Sci. Conf. Math. Dept. Ped. Inst. Volga Region (May,* 1960*) (Russian), pp.* 61-65. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1961. (RŽMat 1962 7 #B249) 33 #1588

Closedness of a system of functions. (Russian) *Proc. Second Sci. Conf. Math. Dept. Ped. Inst. Volga Region, No. 1 (Russian), pp.* 32-35. *Kuĭbyšev. Gos. Ped. Inst., Kuybyshev,* 1962. (G. Biriuk) 34 #1784

On a series expansion of a harmonic function. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 10 (1966), *no.* 1, 12-18. (R. P. Boas) 33 #5919

An error estimate in the solution of the Dirichlet problem by the least squares method. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 3, 9-14. (H. E. Warren) 37 #5533

Zolina, L. A.

Existence and uniqueness of solution of a boundary value problem for the model equation of the elliptic-parabolic type. (Russian) *Taškent. Gos. Ped. Inst. Učen. Zap.* 61 (1966), 54-67. (A. D. Solomon) 35 #3207

Solution of a boundary value problem for the model equation of the elliptic-parabolic type. (Russian) *Taškent. Gos. Ped. Inst. Učen. Zap.* 61 (1966), 68-76. (A. D. Solomon) 35 #3208

Boundary value problem for the model equation of the hyperbolic-parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 6 (1966), 991-1001. (O. Horáček) 35 #595

On the plane problem of conjugate heat transfer. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 11 (1967), *no.* 2, 14-19. (H. A. Lauwerier) 35 #3971

A certain boundary value problem for an equation of mixed type. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 14 (1970), *no.* 2, 34-38. (R. N. Goss) 43 #6602

Zöller, O.

(with Ecker, G.) Thermally inhomogeneous plasma column. *Phys. Fluids* 7 (1964), 1996-2000. (Roy R. Johnson) 31 #5609

(with Ecker, G.; Kröll, W.) Thermal instability of the plasma column. *Phys. Fluids* 7 (1964), 2001-2006. (Roy R. Johnson) 31 #5610

olotarev, E. I.

(See Nalbandjan, M. B., 33 #1212; Ožigova, E. P., 33 #2509; and Bašmakova, I. G., 44 #3823)

olotarev, G. N.

Maximal classes of uniqueness of the Cauchy problem for partial differential equations. (Russian) *Ivanov. Gos. Ped. Inst. Učen. Zap.* 34 (1963), *vyp. mat.*, 34-45. (R. Carroll) 34 #1656

Uniqueness theorems for a certain class of integral representations. (Russian) *Mat. Sb. (N.S.)* 78(120) (1969), 408-424. (J. L. B. Cooper) 39 #4600

olotarev, I. D.

On the possible simplification of realizing the inverse Laplace transform. (Russian) *Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk* 1964, *no.* 3, 162-166. (M. Zerner) 30 #5133

Some formulas which simplify the realization of the inverse Laplace transform. (Russian) *Izv. Sibirsk. Otd. Akad. Nauk SSSR Ser. Tehn. Nauk* 1964, *no.* 3, 166-168. (M. Zerner) 30 #5134

lotarev, Ju. G.

The determination of periodic solutions of a certain differential equation. (Russian) *Akad. Nauk Kazah. SSR Trudy Sekt. Mat. Meh.* 2, 20-31 (1963). (L. Pintér) 32 #1413

Periodic part of an integral. (Russian) *Studies in Differential Equations and their Applications (Russian), pp.* 33-41. *Izdat. "Nauka", Alma-Ata,* 1965. (C. Corduneanu) 32 #2694

(with Alimžanova, R. M.) The invariance of the rotation numbers of a certain system of differential equations. (Russian) *Kazah. Gos. Ped. Inst. Učen. Zap.* 23 (1966), 36-44. (Wolfdietrich Müller) 37 #3110

(with Alimžanova, R. M.) The transformation of analytic systems of differential equations with quasi-periodic coefficients. (Russian) *Kazah. Gos. Ped. Inst. Učen. Zap.* 23 (1966), 45-54. (Wolfdietrich Müller) 37 #3111

(with Godjaeva, I. K.) A method of constructing difference schemes for Laplace's equation in the case of irregular nets. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 3, 14-20. (V. Thomée) 41 #1240

(with Godjaeva, I. K.) A solution of the Dirichlet problem for Laplace's equation by using a sequence of harmonic polynomials. (Russian) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 5, 80-82. (C. Ilioi) 43 #4271

lotarev, V. M.

Analogue of the asymptotic Edgeworth-Cramer expansion in the case of convergence to stable distributions. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp.* 49-50. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (C. V. Stanojevic) 32 #8395

On a new viewpoint of limit theorems taking into account large deviations. (Russian) *Proc. Sixth All-Union Conf. Theory Prob. and Math. Statist. (Vilnius, 1960) (Russian), pp.* 43-47. *Gosudarstv. Izdat. Političesk. i Naučn. Lit. Litovsk. SSR, Vilnius,* 1962. (C. V. Stanojevic) 33 #764

The analytic structure of infinitely divisible laws of class *L*. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 3 (1963), *no.* 1, 123-140. (K. L. Chung) 30 #1537

An extremal problem in limit theorems for sums of independent random variables. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 4 (1964), 343-352. (W. Hoeffding) 30 #608

On asymptotically correct constants in sharpenings of the global limit theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 293-302. (W. Hoeffding) 29 #641

The moment of first passage of a level and the behaviour at infinity of a class of processes with independent increments. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 9 (1964), 724-733. (M. R. Leadbetter) 30 #1546

On the representation of stable laws by integrals. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 46-50. (E. Lukacs) 30 #5348

Distribution of the length of a queue and of the number of operating servers in a system of Erlang type with random breakdowns and renewal of servers. (Russian) *Trudy Mat. Inst. Steklov.* 71 (1964), 51-61. (C. E. Langenhop) 30 #5386

One-sided interpretation and revision of certain inequalities of the Čebyšev type. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 5 (1965), 233-250. (M. Loève) 33 #3334

On the closeness of the distributions of two sums of independent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 519-526. (Author's summary) 32 #6536

Asymptotic behavior of distributions of processes with independent increments. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 10 (1965), 33-50. (K. L. Chung) 32 #6542

Absolute estimate of the remainder in the central limit theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 108-119. (M. Iosifescu) 33 #6686

A multidimensional analogue of Berry-Esseen's inequality for sets of a bounded diameter. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 507-514. (C. V. Stanojevic) 34 #844

Théorèmes limites pour les sommes de variables aléatoires indépendantes qui ne sont pas infinitésimales. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A799-A800. (H. Teicher) 36 #7187

Sur une généralisation du théorème de Lindberg-Feller et des questions qui s'y rattachent. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A260-A262. (H. Bargström) 36 #5991

Some inequalities from probability theory and their application to a refinement of A. M. Ljapunov's theorem. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 501-504. (M. Loève) 36 #3398

M-divisibility of stable laws. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 559-562. (B. Volkmann) 36 #3399

A generalization of the Lindeberg-Feller theorem. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 12 (1967), 666-677. (W. Hoeffding) 37 #961

A sharpening of the inequality of Berry-Esseen. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 8 (1967), 332-342. (W. Hoeffding) 36 #4622

Letter to the editor. (Russian) *Teor. Verojatnost. i Primenen.* 13 (1968), 195. (F. L. Spitzer) 36 #7172

Some remarks on multidimensional inequalities of Bernšteĭn-Kolmogorov type. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 289-294. (E. Seneta) 37 #5914

On the problem of the stability of the decomposition of the normal law into components. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 738-742. (R. G. Laha) 39 #2197

Théorèmes limites généraux pour les sommes de variables aléatoires indépendantes. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A899-A902. (R. Cuppens) 41 #6284

Several new probabilistic inequalities connected with the Lévy metric. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1019-1021. (R. Cuppens) 41 #1096

The center and scattering of a probability distribution. (Russian) *Dokl. Akad. Nauk SSSR* 194 (1970), 1010-1012. (B. Volkmann) 43 #4088

(with Bol'šev, L. N.; Kedrova, E. S.; Rybinskaja, M. A.) Tables of stable one-sided distributions. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 15 (1970), 309-319. (R. Cuppens) 42 #6896

Zolotarev, V. P.

The intersection of topologies. (Russian) *Dokl. Akad. Nauk SSSR* 195 (1970), 540-543. (M. Katětov) 43 #2679

Zolotareva, E. V.

On the Dirchlet problem for a certain class of elliptic systems. (Russian) *Dokl. Akad. Nauk SSSR* 145 (1962), 983-985. (R. T. Seeley) 31 #4987

On the Dirichlet problem for certain elliptic systems of second order. (Russian) *Differencial'nye Uravnenija* 3 (1967), 59-68. (N. Boboc) 37 #1782

On the uniqueness of the Dirichlet problem for certain elliptic systems. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), 565-572. (D. Pascali) 35 #3255

Zolotarjuk, A. V.

(with (Gačok, V. P.; Jakymiv, Ja. M.) The regularization of singular operator expressions in quantum field theory. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 262-264. (J. Glimm) 41 #9534

Zolotuhina, L. A.

(with Gol'cman, F. M.; Latyšev, K. P.; Halfin, L. A.; Halfina, N. M.; Čugueva, V. N.) Statistical problems in the interpretation of siesmic data. *Trudy Mat. Inst. Steklov.* 79 (1965), 160-181 *(Russian); translated as Proc. Steklov Inst. Math. No.* 79 (1966), 178-201. (P. A. P. Moran) 34 #7194

(with Latyšev, K. P.; Čugueva, V. N.) Convergence to the normal distribution of one particular form of sum of dependent random vectors. (Russian) *Mat. Zametki* 5 (1969), 691-695. (Harry I. Cohn) 40 #3601

Asymptotic distribution of sequences with random indices. (Russian) *Mat. Zametki* 6 (1969), 705-712. (R. Cuppens) 41 #7746

Zolver, René

Écoulement hypersonique asymptotique d'un gaz parfait non visqueux, non conducteur de la chaleur sur un obstacle en loi de puissance. *C. R. Acad. Sci. Paris* 258 (1964), 5152-5155. (P. Mandl) 29 #1849

Zonenašvili, I. A.

A mixed bending problem for an eccentric ring. (Russian. Georgian summary) *Sakharth. SSR Mecn. Akad. Moambe* 43 (1966), 23-29. (Z. Kączkowski) 34 #8705

Žongolovič, I. D.

(with Pellinen, L. P.) Mean elements of artificial earth satellites. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 8 (1962), 381-895. (E. Leimanis) 32 #2175

Parabolic interpolation in a certain special case. (Russian. English summary) *Bjull. Inst. Teoret. Astronom.* 11, *no.* 8 (131), 500-506 (1968). (Walter Gautschi) 43 #1385

Zonneveld, J. A.

* Automatic numerical integration. Mathematical Centre Tracts, No. 8. *Mathematisch Centrum, Amsterdam,* 1964. 110 *pp.* (P. J. Davis) 30 #1612

Periodic solutions of the Van der Pol equation. *Nederl. Akad. Wetensch. Proc. Ser. A* 69 = *Indag. Math.* 28 (1966), 620-622. (H. Rutishauser) 37 #2450

Zoobaee, Oraibi Hussain Al. See Al-Zoobaee, Oraibi Hussain.

Zoobow, W. J. See Zubov, V. I.

Zoobowa, A. F. See Zubova, A. F.

Zorič, V. A.

Boundary properties of a class of mappings in space. (Russian) *Dokl. Akad. Nauk SSSR* 153 (1963), 23-26. (F. W. Gehring) 30 #1245

Determination of boundary elements by means of sections. (Russian) *Dokl. Akad. Nauk SSSR* 164 (1965), 736-739. (B. Bojarski) 35 #4414

Homeomorphism of quasiconformal space maps. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 31-34. (T. J. Reed) 36 #6616

Angular boundary values of quasiconformal mappings of a sphere. (Russian) *Dokl. Akad. Nauk SSSR* 177 (1967), 771-773. (E. Reich) 36 #5343

M. A. Lavrent'ev's theorem on quasiconformal space maps. (Russian) *Mat. Sb. (N.S.)* 74(116) (1967), 417-433. (T. J. Reed) 36 #6617

Admissible order of growth of the characteristic of quasiconformality in M. A. Lavrent'ev's theorem. (Russian) *Dokl. Akad. Nauk SSSR* 181 (1968), 530-533. (P. Caraman) 37 #5382

(See also Ahlfors, Lars V., 39 #4384)

Isolated singularity of mappings with bounded distortion. (Russian) *Mat. Sb. (N.S.)* 81(123) (1970), 634-636. (F. W. Gehring) 42 #497

Zoriĭ, L. M.

On the theory of the stability of systems with distributed parameters. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 992-995. (T. Leser) 40 #3763

A representation of the characteristic equations of certain boundary value problems for systems with distributed parameters. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1968, 1072-1076. (T. Leser) 40 #2264

(with Balīns'kiĭ, A. Ī.) A certain representation of the general solution of a system of linear differential equations with constant coefficients. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraïn. RSR Ser. A* 1971, 195-197, 283. (J. Muszyński) 44 #4272

Zorik, L. V.

The determination of singular solutions of weighted integral equations that depend on two parameters. (Russian) *Communications of Works of the Irkutsk State Univ. Comput. Center, No. I (Russian), pp.* 47-58. *Irkutsk. Gos. Univ. Vyčisl. Centr, Irkutsk,* 1966. (J. Brilla) 42 #6556

The determination of small solutions of a one-dimensional branching equation with two independent variables. (Russian) *Communications of Works of the Irkutsk State Univ. Comput. Center, No. I (Russian), pp.* 91-98. *Irkutsk. Gos. Univ. Vyčisl. Centr, Irkutsk,* 1966. (P. Aĭzengendler (RŽMat 1966 #6 B479)) 44 #7744

The determination of small and large solutions of nonlinear integral equations that depend on two parameters. (Russian) *Proc. Sixth Interuniv. Sci. Conf. of the Far East on Physics and Mathematics, Vol. 3: Differential and Integral Equations (Russian), pp.* 93-99. *Habarovsk. Gos. Ped. Inst., Khabarovsk,* 1967. (J. Kolomý) 41 #4170

- Finding singular solutions of a class of systems of weighted integral equations. (Russian) *Izv. Vysš. Učebn. Zaved. Matematik* 1967, *no.* 9 (64), 41-47. (L. von Wolfersdorf) 36 #1943

The connection between a certain class of linear integro-differential equations and weighted integro-differential equations (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 45-54. (L. Krivošein (RŽMat 1969 #5 B465)) 42 #3526

The unique continuation of the solution of a certain class of nonlinear weighted integro-differential equations. (Russian) *Trudy Irkutsk. Gos. Univ.* 26 (1968), 118-123. 42 #4991

Zorilescu, Dan

Calcul des régressions à l'aide de l'algorithme simplex. *Re Française Informat. Recherche Opérationnelle* 3 (1969), *Sér. V*-2, 113-116. (I. V. Romanovskiĭ) 42 #3930

Zoroa, Procopio. See Zoroa Terol, Procopio.

Zoroa Terol, Procopio

The set of solutions in linear programming. (Spanish) *Trabajos Estadíst.* 14 (1963), 83-97. (A. G. Azpeitia) 31 #4620

Existence of differential games with given value. (Spanish) *Trabajos Estadíst.* 20 (1969), 79-116. (Author's summary) 41 #8048

Continuity of the value function in a differential game. (Spanish) *Rev. Acad. Ci. Madrid* 64 (1970), 413-420. (C. R. Hadlock) 43 #3002

Zorščikov, A. V.

Uniform convergence of Fourier series in Jacobi polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 176 (1967), 35-38. (D. P. Gupta) 36 #4252

Estimates of the remainder of a Fourier-Jacobi series. (Russian) *Ural. Gos. Univ. Mat. Zap.* 5 (1966), *tetrad'* 4, 23-32 (1967). (H. A. Lauwerier) 35 #3361

The approximation of functions by Fourier-Jacobi series. (Russian) *Ural. Gos. Univ. Mat. Zap.* 6 (1967), *tetrad'* 2, 32-39 (1968). 43 #2395

Fourier-Jacobi series of continuous functions of bounded variation. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1968, *no.* 1, 6-15. (F. Ustina) 39 #1892

Zorski, Henryk

On the equations describing small deformations superposed on finite deformation. *Second-order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos., Haifa, 1962), pp.* 109-128. *Jerusalem Academic Press, Jerusalem; Pergamon, Oxford,* 1964. (R. L. Fosdick) 29 #6682

Anelastic waves in thin plates. *Stress Waves in Anelastic Solids (Sympos., Brown Univ., Providence, R. I., 1963), pp.* 87-100. *Springer, Berlin,* 1964. (P. P. Teodorescu) 30 #2769

Theory of discrete defects. (Polish and Russian summaries) *Arch. Mech. Stos.* 18 (1966), 301-372. (F. Erdogan) 36 #2348

(See also Krzyżański, Mirosław, 43 #3597 and 43 #3598)

Zosi, G.

(with Narang, A.) Su un problema di approssimazione mediante funzioni esponenziali ad argomento reale. *Atti Sem. Mat. Fis. Univ. Modena* 18 (1969), *fasc.* 2, 453-462. (Walter Gautschi) 40 #6733

Zoteev, A. I.

Synthesis of control, optimal on a finite time interval. (Russian) *Trudy Kazan. Avacion. Inst. Vyp.* 87 (1965), 76-86. (Z. Vorel) 34 #4621

One of the methods of determining the parameters of a regulator. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 103 (1968), 34-39. (Z. Vorel) 40 #7574

Synthesis of systems with variable structure. I, II. (Russian *Trudy Kazan. Aviacion. Inst. Vyp.* 121 (1970), 51-66; *ibid. Vyp.* 117 (1970), 47-56. (E. C. Skowronski) 43 #5955

Žotikov, G. I.

The differential $(m + 1)$-metric of Lagrange definable in X_n by a field of local m-surfaces. (Russian) *Baskir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 9-31. 34 #774

The differential singular Finsler metric definable in X_n by a field of local singular hypersurfaces of singularity class n-m-1. (Russian) *Baskir. Gos. Univ. Učen. Zap. Vyp.* 20 (1965), *Ser. Mat. No.* 2, 32-45. 34 #775

Introduction to the geometry of the calculus of variations for multiple integrals. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 3-18. (N. Kabanov (RŽMat 1968 #8 A531)) 44 #2115

A geometric theory of the Lagrange variational problem for multiple integrals. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 19-66. (N. Kabanov (RŽMat 1968 #8 A528)) 44 #2116

The regular variational problem for the unconditional extremum for multiple integ-als. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 67-84. (N. Kabanov (RŽMat 1968 #8 A529)) 44 #2117

The geometry of an X_n with m-dimensional Riemannian metric, and its application to the calculus of variations for multiple integrals. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 85-109. (N. Kabanov (RŽMat 1968 #8 A530)) 44 #2118

Certain questions of the geometric theory of Carathéodory transformations in the calculus of variations for multiple integrals, and a sufficient condition for an extremum in the problem of Lagrange. (Russian) *Baškir. Gos. Univ. Učen. Zap. Vyp.* 31 (1968), *Ser. Mat. no.* 3, 110-214. (N. Kabanov (RŽMat 1968 #8 A532)) 44 #2119

Zoukhovitsky, S. See Zuhovickiĭ, S. I.

Zoukhovitzky, S. See Zuhovickiĭ, S. I.

Zoutendijk, G.

Nonlinear programming: A numerical survey. *SIAM J. Control* 4 (1966), 194-210. 32 #7252

Some algorithms based on the principle of feasible directions. *Nonlinear Programming (Proc. Sympos., Univ. of Wisconsin, Madison, Wis., 1970), pp.* 93-121. *Academic Press, New York,* 1970. (Author's summary) 42 #7286

Zraževs'ka, G. M.

The bending of a surface with curvature of constant sign. (Ukrainian. Russian and German summaries) *Vīsnik Kiīv. Unīv.* 1966, *no.* 8, 89-92. 35 #3559

The simultaneous introduction of an isometric parametrization on two isometric surfaces. (Ukrainian. German and loose Russian summaries) *Vīsnik Kiīv. Unīv.* 1969, *no.* 11, *Ser. Mat. Meh.*, 62-64. 40 #6399

Zrcek, František

Ein Modell des nichthomogenen Markoffschen Geburts- und Todes-Prozesses mit gesteuertem Mittelwert. I, II. (Czech summary) *Kybernetika (Prague)* 6 (1970), 382-398; *ibid.* 6 (1970), 479-495. (K. Dietz) 43 #8139

Zsidó, László

Characterization of plane, bounded, simply connected domains. (Romanian) *Gaz. Mat. Ser. A* 71 (1966), 51-54. (G. S. Young) 35 #3642

Une variante d'un résultat de M. Varopoulos. *C. R. Acad. Sci. Paris Sér. A - B* 265 (1967), A614-A616. (Y. Katznelson) 37 #5612

A structure theorem for compactly generated l. c. a. groups. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1395-1398. (R. R. Goldberg) 40 #5778

A conjugation criterion. (Romanian) *Stud. Cerc. Mat.* 19 (1967), 1537-1538. (N. Dinculeanu (Zbl 162, 193)) 40 #4423

Sur les processus fortement stationnaires ergodiques. *C. R. Acad. Sci. Paris Sér. A - B* 267 (1968), A169-A170. (E. S. Boylan) 37 #5902

Conditional expectation and the theorem of Sinaĭ. (Romanian. English summary) *Stud. Cerc. Mat.* 20 (1968), 1045-1111. (N. Dinculeanu) 43 #483

(with Arsene, Gr.) Une propriété de type de Darboux dans les algèbres de von Neumann. *Acta Sci. Math. (Szeged)* 30 (1969), 195-198. (P. C. Deliyannis) 41 #4257

ub, O. M.

Finite groups in which all noncyclic subgroups have complements. (Ukrainian. Russian and English summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1968, 891-894. (I. M. H. Etherington) 41 #3589

Infinite groups in which all nonlocally cyclic subgroups have complements. (Ukrainian. English and Russian summaries) *Dopovīdī Akad. Nauk Ukraīn. RSR Ser. A* 1969, 406-408, 473. (D. Livingstone) 42 #7764

Groups whose noncyclic subgroups are complemented. (Russian) *Groups with Restricted Subgroups (Russian), pp.* 134-159. *"Naukova Dumka", Kiev,* 1971. (J. D. Dixon) 43 #2070

ūba'ī, 'Uraybī Ḥusayn al, See Al-Zoobaee, Oraibi Hussain.

ubakin, A. M.

An analog of the Steinhaus theorem. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 206-210. (N. Dinculeanu) 37 #4511

The "correction" theorems of Men'šov for a certain class of multiplicative orthonormal systems of functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 12 (91), 34-46. (D. P. Gupta) 41 #5872

On the theory of complete multiplicative periodic orthonormal systems. (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 6 (150), 187-188. (G. K. Eagleson) 41 #4116

The Gibbs phenomenon for multiplicative systems of the Walsh type and the Vilenkin-Džafarli type. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 147-157. (M. Bożejko) 43 #7850

ubarev, D. N.

A Gibbs ensemble locally in equilibrium, and its connection with the theory of fluctuation and transfer phenomena. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 532-535. (D. ter Haar) 31 #3153

Transport processes in systems of particles with internal degrees of freedom. (Russian) *Dokl. Akad. Nauk SSSR* 162 (1965), 794-797. (E. H. Bareiss) 31 #4562

A statistical operator for nonstationary processes. *Dokl. Akad. Nauk SSSR* 164 (1965), 537-540 *(Russian); translated as Soviet Physics Dokl.* 10 (1966), 850-852. (J. A. McLennan) 33 #2334

(with Buišvili, L. L.) Statistical theory of nuclear spin diffusion. *Fiz. Tverd. Tela* 7 (1965), 722-729 *(Russian); translated as Soviet Physics Solid State* 7 (1965), 580-584. (N. Bloembergen) 31 #4544

(with Vladimirov, V. S.; Medvedev, B. V.; Mitropol's'kiĭ, Ju. O.; Parasjuk, O. S.; Polivanov, M. K.) Nikolaĭ Nikolaevič Bogoljubov (on his sixtieth birthday). (Russian) *Uspehi Mat. Nauk* 24 (1969), *no.* 4 (148), 207-215. (Editors) 41 #1495

Zubčaninov, V. G.

On the elasto-plastic stability of plates. (Russian) *Inž. Ž.* 5 (1965), *no.* 2, 299-305. 32 #4938

Zuber, R.

A method of successive approximations. (Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 14 (1966), 559-561. (T. Kimura) 35 #5684

A certain algorithm for solving ordinary differential equations of the first order. I. (Polish. Russian summary) *Zastos. Mat.* 8 (1966), 351-363. (J. Warga) 33 #6844

On rapidly convergent sequences of successive approximations. (Polish. English and Russian summaries) *Zastos. Mat.* 9 (1966), 75-83. (Č. Masaitis) 34 #7033

A certain algorithm for solving ordinary differential equations of the first order. II. (Polish. English and Russian summaries) *Zastos. Mat.* 9 (1966), 85-98. (J. Warga) 34 #3799

Matrix transformation method of approximate solutions of partial differential equations. (Loose Russian summary) *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), 587-592. (V. Thomée) 38 #2961

Matrix transformation method of approximate solution of partial differential equations. (Polish and Russian summaries) *Zastos. Mat.* 11 (1969/70), 177-193. (J. D. P. Donnelly) 42 #7087

Zubieta, Gonzalo

Differential notation for set functions. (Spanish) *An. Inst. Mat. Univ. Nac. Autónoma México* 1 (1961), 67-81. (G. Aumann (Zbl 127, 24)) 37 #6425

Zubkov, A. M.

A degeneracy condition for a bounded branching process. (Russian) *Mat. Zametki* 8 (1970), 9-18. (J. Wolfowitz) 42 #2551

Zubov, V. A.

(with Suščinskiĭ, M. M.; Šuvalov, I. K.) Stimulated Raman scattering of light. *Uspehi Fiz. Nauk* 83 (1964), 197-222 *(Russian); translated as Soviet Physics Uspekhi* 7 (1964), 419-433. (J. F. Ward) 31 #4334

Zubov, V. I.

* Колебаия в нелинейных и управляемых системах. (Russian) [Vibrations in non-linear and controlled systems] *Gos. Sojuz. Izdat. Sudostroitel. Promyšl., Leningrad,* 1962. 631 *pp.* (C. S. Coleman) 32 #5954

* Methods of A. M. Lyapunov and their application. Translation prepared under the auspices of the United States Atomic Energy Commission; edited by Leo F. Boron. *P. Noordhoff Ltd, Groningen,* 1964. xvi + 263 *pp. (1 plate)* (Editors) 31 #3676

On the theory of the existence of solutions of boundary value problems for systems of differential equations. (Russian) *Differencial'nye Uravnenija* 6 (1970), 629-631. (M. Ráb) 42 #4807

Construction of program motions in linear control systems. (Russian) *Differencial'nye Uravnenija* 6 (1970), 632-633. (R. N. Salija) 42 #7353

The active control of the rotational motion of a solid body. (Russian) *Differencial'nye Uravnenija* 6 (1970), 2086-2087. (B. Dolapčiev) 43 #4314

A certain problem of optimal stabilization. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 760-762. (A. B. **Kuržanskiĭ**) 41 #6604

The control of rotational motion. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1320-1322, 1343. (Q. K. Ghori) 44 #3540

Conditions for the synthesis of linear controls. (Russian) *Differencial'nye Uravnenija* 7 (1971), 1699-1700. (G. Zatiašvili) 44 #5593

Zubov, V. M.

(with Hohrjakov, A. Ja.) Estimates of the Green's matrix and its integral for a linear boundary value problem for a system of ordinary differential equations. (Russian) *Dokl. Akad. Nauk BSSR* 12 (1968), 761-764. (C. S. Coleman) 39 #7194

The Green's matrix of certain boundary value problems. (Russian) *Differencial'nye Uravnenija* 6 (1970), 1892-1895. (R. C. Gilbert) 43 #3539

Zubov, V. P.

(with Rozenfel'd, B. A.; Juškevič, A. P.) Investigations in the history of the mathematics of the Middle Ages. (Russian) *Istor.-Mat. Issled. No.* 15 (1963), 51-72. (K. Vogel) 31 #3297

The atomistic theory of Galileo. (Russian) *Voprosy Istor. Estest. i Tehn. No.* 16 (1964), 38-51. (C. J. Scriba) 30 #3826

The "Archimedean tradition" in the Middle Ages. (Gerard Brussels' treatise "On motion".) (Russian) *Istor.-Mat. Issled. No.* 16 (1965), 235-272. (M. S. Mahoney) 35 #6509

Zubova, A. F.

On a method of calculating the reliability of redundant systems. *Avtomat. i Telemeh.* 26 (1965), 705-711 *(Russian); translated as Automat. Remote Control* 26 (1965), 701-707. (N. Zierler) 32 #1025

Zubrzycka, L.

(with Bartkowiakowa, A.) Polish linguistic research using mathematical methods. (Polish) *Wiadom. Mat.* (2) 7. 87-97 (1963). (Editors) 31 #6698

(with Kopociński, B.) Remark on division of systems of features into harmonized subsystems. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 317-321. (Z. W. Birnbaum) 32 #8376

Zubrzycki, Stefan

A problem concerning simultaneous duration of several phenomena. (Polish. Russian and English summaries) *Prace Mat.* 7 (1962), 7-9. (J. J. Mehlberg) 32 #6520

A remark on probabilistic description of sedimentary deposits. (Polish. Russian and English summaries) *Zastos. Mat.* 6 (1962), 199-208. (Author's summary) 32 #3843

A recursive formula for the number of restricted partitions. (Polish. Russian and English summaries) *Zastos. Mat.* 6 (1962), 231-234. (S. Knapowski) 32 #5623

On minimax estimation of population size. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 183-194. (Z. W. Birnbaum) 32 #4768b

Remarks on a probabilistic model of variability on a plane. (Polish. Russian and English summaries) *Zastos. Mat.* 7 (1964), 219-222. (Author's summary) 32 #3201

* Wykłady z rachunku prawdopodobieństwa i statystyki matematycznej. (Polish) [Lectures on the calculus of probability and mathematical statistics] Biblioteka Matematyczna, Tom 27. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1966. 335 pp. (Z. Šidák) 36 #914

Explicit formulas for minimax admissible estimators in some cases of restrictions imposed on the parameter. (Russian and Polish summaries) *Zastos. Mat.* 9 (1966), 31-52. (J. Kiefer) 34 #6917

Zucca, T.

(with Ascari, A.) A variable-lattice difference solution of an initial-value problem for the cylindrical heat equation. *Calcolo* 2 (1965), 177-187. (W. Wasow) 32 #6687

Zucchetti, Bianca Maria Ricetti. See Ricetti Zucchetti, Bianca Maria.

Zucker, Francis J.

Current topics in the stochastic theory of radiation. *J. Res. Nat. Bur. Standards Sect. D* 68D (1964), 989-993. (Author's summary) 29 #3118

Zucker, I. J.

Quantum mechanics of the isotropic three-dimensional anharmonic oscillator. *Proc. Cambridge Philos. Soc.* 60 (1964), 273-278. (J. McKenna) 29 #6813

Zuckerberg, Hyam L.

Solution of the Dirichlet problem in parallel slit domains. *J. Math. and Phys.* 45 (1966), 77-94. (E. C. Schlesinger) 33 #5928

Zuckerman, Herbert S.

(with Apostol, Tom M.) On the functional equation $F(mn)F((m,n)) + F(m)F(n)f((m,n))$. *Pacific J. Math.* 14 (1964), 377-384. (P. E. Guenther) 29 #2559

* (with Niven, Ivan) An introduction to the theory of numbers. Second edition. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. viii + 280 *pp.* (L. Mirsky) 33 #3981

(with Hewitt, Edwin) Singular measures with absolutely continuous convolution squares. *Proc. Cambridge Philos. Soc.* 62 (1966), 399-420. (R. E. Edwards) 33 #1655 (E)

(with Niven, Ivan) Lattice point coverings by plane figures. *Amer. Math. Monthly* 74 (1967), 353-362. (R. P. Bambah) 35 #1557 (E)

(with Niven, Ivan) Correction for: "Lattice point coverings by plane figures". *Amer. Math. Monthly* 74 (1967), 952. (Editors) 36 #2557

(with Niven, Ivan) Lattice points and polygonal area. *Amer. Math. Monthly* 74 (1967), 1195-1200. (H. T. Croft) 37 #810

(with Niven, Ivan) Lattice points in regions. *Proc. Amer. Math. Soc.* 18 (1967), 364-370. (F. Supnick) 35 #136

(with Hewitt, Edwin) Corrigendum: "Singular measures with absolutely continuous convolution squares". *Proc. Cambridge Philos. Soc.* 63 (1967), 367-368. (R. E. Edwards) 34 #8097

(with Niven, Ivan) Variations on sums of squares. *Pi Mu Epsilon J.* 4 (1968), 407-410. (K. G. Ramanathan) 41 #6774

(with Hewitt, Edwin) Ternary operations and semigroups. *Semigroups (Proc. Sympos., Wayne State Univ., Detroit, Mich.,* 1968), pp. 55-83. *Academic Press, New York,* 1969. (T. S. Blyth) 41 #5538

(with Niven, Ivan) On certain sequences. *Amer. Math. Month* 76 (1969), 386-389. (F. P. Cass) 39 #1844

(with Niven, Ivan) The lattice point covering theorem for rectangles. *Math. Mag.* 42 (1969), 85-86. (R. P. Bambah) 39 #6178b

(with Hewitt, Edwin) Remarks on the functional equation $f(x + y) = f(x) + f(y)$. *Math. Mag.* 42 (1969), 121-123. (A. Smajdor) 39 #7313

(with Hewitt, Edwin) Some singular Fourier-Stieltjes series *Proc. London Math. Soc.* (3) 19 (1969), 310-326. (J.-P. Kahane) 39 #1905

Zuckerman, Israel

A new measure of a partial differential field extension. *Pacific J. Math.* 15 (1965), 357-371. (A. Jaeger) 34 #2572

Zuckerman, Martin M.

On a theorem of Sierpinski. *Matematiche (Catania)* 23 (1968) 496-500. (Paul E. Howard) 42 #62

On choosing subsets of n-element sets. *Fund. Math.* 64 (1969), 163-179. (J. E. Rubin) 39 #5349 (E)

Errata to the paper: "On choosing subset of n-element sets" *Fund. Math.* 66 (1969/70), 153. (Editors) 40 #4133

Number theoretic results related to the axioms of choice for finite sets. *Illinois J. Math.* 13 (1969), 521-527. (W. J. Frascella) 40 #4127

A unifying condition for implications among the axioms of choice for finite sets. *Pacific J. Math.* 28 (1969), 233-242. (J. E. Rubin) 39 #1324

Some theorems on the axioms of choice for finite sets. *Z. Math. Logik Grundlagen Math.* 15 (1969), 385-399. (J. Mycielski) 43 #7319

Locating vertices of trees. *Notre Dame J. Formal Logic* 11 (1970), 375-378. (J. A. Bondy) 44 #1599

Multiple choice axioms. *Axiomatic Set Theory (Proc. Sympos. Pure Math., Vol. XIII, Part I, Univ. California, Los Angeles, Calif.,* 1967*), pp.* 447-466. *Amer. Math. Soc., Providence, R. I.,* 1971. (J. E. Rubin) 43 #6080

Choices from finite sets and choices of finite subsets. *Pro Amer. Math. Soc.* 27 (1971), 133-138. (J. E. Rubin) 42 #5788

Zuckermann, M. C. Lortet. See Lortet-Zuckermann, M. C.

Zudans, Zenons

A note on numerical evaluation of eigenvalues and eigenfunctions for continuous systems. *J. Franklin Inst.* 279 (1965), 46-53. (T. Uno) 33 #1960

Zuev, A. I.

On an algorithm for solution of nonlinear systems by the sweep method. (Russian) *Trudy Mat. Inst. Steklov.* 74 (1966), 152-155. 35 #7577

Zuev, G. Ja.

(with Sosinskiĭ, A. B.) On spheres containing wild zero-dimensional sets. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 22 (1967), *no.* 3, 5-9. (M.-E. Hamstrom) 35 #7321

Zuev, I. V.

A real interpretation of the curves of a complex centroaffin plane. (Russian) *Elabuz. Gos. Ped. Inst. Učen. Zap.* 3 (1958), 17-34. (Author's introduction) 41 #944

A condition for rectification of a circle under an analytic mapping. (Russian) *Trudy Kazan. Aviacion. Inst. Vyp.* 80 (1963), 84-88. (T. J. Reed) 34 #6053

A biaxial invariant of a ruled surface. (Russian) *Kazan. Gos Univ. Učen. Zap.* 125 (1965), *kn.* 1, 74-78. (M. C. Chaki) 35 #35

A class of plane vector fields. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 79-87. (A. Urban) 34 #6674

On the Lagrange equation. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 125 (1965), *kn.* 1, 88-99. (A. Urban) 34 #6675

Second order cylinders of biaxial space. (Russian) *Izv. Vysš Učebn. Zaved. Matematika* 1968, *no.* 7 (74), 16-23. (D. Betten) 37 #6856

Vector fields with directrices. (Russian) *Kazan. Gos. Univ. Učen. Zap.* 129 (1970), *kn.* 6, 69-78. (K. Svoboda) 44 #3215

Zuev, M. F.

Polyanalytic functions which are equal in modulus. (Russian. Lithuanian and English summaries) *Litovsk. Mat. Sb.* 8 (1968), 753-763. (I. N. Baker) 40 #5883

(with Balk, M. B.) Polyanalytic functions. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 5 (155), 203-226. (W. H. J. Fuchs) 44 #6980

Zügge, Hannfried

* Nullstellen von analytischen Funktionen. Inaugural-Dissertation zur Erlangung der Doktorwürde der Naturwissenschaftlichen Fakultät der Philipps-Universität Marburg. *Philipps-Universität, Marburg/Lahn,* 1969. ii + 21 *pp.* (A. Meir) 41 #8638

Zühlke, Harald

ε-Ersetzbarkeit von stochastischen Automaten. *Wiss. Z. Friedrich-Schiller-Univ. Jena/Thüringen* 18 (1969), *Heft* 2, 279-283. (E. Ikaunieks) 42 #1614

Žuhovickiĭ, E. M.

(with Birih, R. V.; Geršuni, G. Z.) On the spectrum of perturbations of plane parallel flows at low Reynolds numbers. *Prikl. Mat. Mah.* 29 (1965), 88-98 *(Russian); translated as J. Appl. Math. Mech.* 29 (1965), 93-104 (1966). (C. R. Illingworth) 33 #3560

Zuhovickiĭ, S. I.

An algorithm for the solution of a generalized problem in linear programming. *Dokl. Akad. Nauk SSSR* 133 (1960), 20-23 *(Russian); translated as Soviet Math. Dokl.* 1 (1961), 797-800. (David Vanderschel) 33 #5364

Some algorithms for effective construction of the Čebyšev approximations. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian)*, pp. 9-14. *Fizmatgiz, Moscow*, 1961. (J. Albrycht) 32 #2815

On Čebyšev approximation of functions by closed operator-functions. (Russian) *Studies of Modern Problems of Constructive Theory of Functions (Russian)*, pp. 331-334. *Fizmatgiz, Moscow*, 1961. (Ivan Singer) 32 #8014

* Линейное и выпуклое программирование. (Russian) [Linear and convex programming] *Izdat. "Nauka", Moscow*, 1964. 348 *pp.* (Editors) 37 #2521

(with Primak, M. E.) An algorithm for solving the Čebyšev approximation problem in Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 497-500. (R. R. Phelps) 31 #2624

(with Poljak, R. A.) An algorithm for solving the problem of rational Chebyshev approximation. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 726-729. (G. G. Lorentz) 30 #2274

On algorithms for solving certain problems of nonlinear Čebyšev approximation and of nonlinear programming. (Russian) *Studies Contemporary Problems Constructive Theory of Functions (Proc. Second All-Union Conf., Baku, 1962) (Russian)*, *pp.* 9-17. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku*, 1965. 35 #2632

(with Poljak, R. A.; Primak, M. E.) A numerical method for solving the problem of convex programming in Hilbert space. (Russian) *Dokl. Akad. Nauk SSSR* 163 (1965), 282-284. (B. Bereanu) 33 #3788

* (with Radčik, I. A.) Математические методы сетевого планирования. (Russian) [Mathematical methods in network planning] *Izdat. "Nauka", Moscow*, 1965. 296 *pp.* (Editors) 40 #2339

* (with Avdeeva, L. I.) Linear and convex programming. Translated from the Russian by Scripta Technica, Inc. Edited by Bernard R. Gelbaum. *W. B. Saunders Co., Philadelphia, Pa.-London*, 1966. viii + 286 *pp.* (T. N. E. Greville) 37 #2522

* (with Avdeeva, L. I.) Линейное и выпуклое программирование. (Russian) [Linear and convex programming] Second revised and complemented edition. With collaboration by R. A. Poljak, M. E. Primak and I. A. Radčik. *Izdat. "Nauka", Moscow*, 1967. 460 *pp.* (From the authors' introduction) 37 #2523

(with Poljak, R. A., Primak, M. E.) A problem of nonconvex programming. *Dokl. Akad. Nauk SSSR* 179 (1968), 786-789 *(Russian); translated as Soviet Physics Dokl.* 13 (1968), 296-298. (A. F. Veinott, Jr.) 38 #5472

(with Poljak, R. A.; Primak, M. E.) A certain class of problems of concave programming. (Russian) *Èkonom. i Mat. Metody* 4 (1968), 431-443. (S. Lebedev (RŽMat 1968 #12 V493)) 42 #8918

* (with Radčik, I. A.) Mathematische Methoden der Netzplantechnik. Translated from the Russian by A. Baer and V. Ziegler. *B. G. Reubner Verlagsgesellschaft, Leipzig*, 1969. 191 *pp.* (S. T. Tan) 40 #2340

* (with Avdeeva, L. I.) Lineare und konvexe Programmierung. Second revised and complemented edition. Übersetzung aus dem Russischen von Gerhard Tesch. *R. Oldenbourg Verlag, Munich-Vienna*, 1969. 483 *pp.* (Editors) 40 #6956

(with Poljak, R. A.; Primak, M. E.) Two methods of finding equilibrium points of concave *n*-person games. (Russian) *Dokl. Akad. Nauk SSSR* 185 (1969), 24-27. (M. Iosifescu) 39 #2474

(with Poljak, R. A.; Primak, M. E.) The concave *n*-person game and a certain production model. (Russian) *Dokl. Akad. Nauk SSSR* 191 (1970), 1220-1223. (M. Maňas) 41 #5060

uily, Claude

Étude de la régularité d'une classe d'opérateurs elliptiques dégénérés du 2^e ordre. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A532-A534. (E. Giusti) 39 #6124

(with Derridj, Makhlouf) Régularité des vecteurs de Gevrey d'une famille de champs de vecteurs. *C. R. Acad. Sci. Paris Sér. A - B* 270 (1970), A510-A511. (J. Unterberger) 41 #7262

(with Derridj, Makhlouf) Régularité C^∞ à la frontière, d'opérateurs dégénérés. *C. R. Acad. Sci. Paris Sér. A - B* 271 (1970), A786-A788. (E. Giusti) 43 #2347

(with Derridj, Makhlouf) Régularité analytique d'opérateurs dégénérés. *C. R. Acad. Sci. Paris Sér. A - B* 273 (1971), A720-A723. (H. Kumano-go) 44 #5617

uk, M. M. Buško. See Buško-Žuk, M. M.

k, V. V.

On the absolute convergence of Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 519-522. (G. Sunouchi) 30 #5117

A modification of the concept of modulus of smoothness and its application to the estimation of Fourier coefficients. (Russian) *Dokl. Akad. Nauk SSSR* 160 (1965), 758-761. (G. G. Lorentz) 30 #4109

Some modifications of the concept of modulus of smoothness and their applications. *Dokl. Akad. Nauk SSSR* 162 (1965), 22 *(Russian); translated as Soviet Math. Dokl.* 6 (1965), 617-620. (S. Izumi) 34 #6418

A certain method of summation of Fourier series. Fourier series with positive coefficients. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 73-92. (A. Efimov (RŽMat 1967 #3 B124)) 39 #1899

The approximation of a 2π-periodic function by a linear operator. (Russian) *Leningrad. Meh. Inst. Sb. Naučn. Trudov No.* 50 (1965), 93-115. (A. Efimov (RŽMat 1967 #3 B146)) 39 #1884

On the strong and strengthened representability of a 2π-periodic function by means of a singular integral. (Russian. English summary) *Vestnik Leningrad. Univ.* 20 (1965), *no.* 19, 24-31. (F. Ustina) 33 #478

Approximation of periodic functions bounded by a subadditive operator. (Russian) *Dokl. Akad. Nauk SSSR* 169 (1966), 515-518. (John T. Scheick) 33 #6254; erratum, 34, p. 1785

On some applications of the integrated Fourier series. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 7, 29-34. (S. Verblunsky) 33 #4565

Absolute convergence of Fourier series. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 13, 128-129. (Author's summary) 33 #4566; errata, 33, p. 1602

On a relation between a functional and best approximation in normed spaces. (Russian. English summary) *Vestnik Leningrad. Univ.* 21 (1966), *no.* 19, 150-151. (G. G. Lorentz) 34 #4776

Approximation of periodic functions by linear methods of summation of Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 173 (1967), 30-33. (J. T. Scheick) 35 #7047

Approximation of a 2π-periodic function by values of a certain bounded semiadditive operator. I. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 1, 21-35. (M. Tomić) 35 #4654

Approximation of a 2π-periodic function by values of a certain bounded semiadditive operator. II. (Russian. English summary) *Vestnik Leningrad. Univ.* 22 (1967), *no.* 13, 41-50. (M. Tomić) 36 #3028

The approximation of periodic functions by linear approximation methods. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 1038-1041. (A. Lupaş) 37 #5591

The order of approximation of a continuous 2π-periodic function by means of the Fejér and Poisson means of its Fourier series. (Russian) *Mat. Zametki* 4 (1968), 21-32. (J. Albrycht) 38 #2512

The question of approximating periodic functions by linear summation methods for Fourier series. (Russian) *Sibirsk. Mat. Ž.* 9 (1968), 713-716. (M. Tomić) 37 #4493

The order of approximation of a continuous 2π-periodic function by linear methods. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1969, *no.* 10 (89), 40-50. (J. Szabados) 41 #2283

The approximation of periodic functions by linear processes. (Russian) *Studia Sci. Math. Hungar.* 4 (1969), 201-205. (J. Szabados) 40 #3150

The rate of approximation of a continuous 2π-periodic function by partial sums of its Fourier series. (Russian) *Dokl. Akad. Nauk SSSR* 190 (1970), 1015-1018. (D. L. Ragozin) 41 #8905

Some relations between moduli of continuity and functionals defined on sets of periodic functions. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1970, *no.* 5 (96), 24-33. (Š. A. Alimov) 43 #6648

Some exact inequalities between best approximations and moduli of continuity. (Russian) *Dokl. Akad. Nauk SSSR* 196 (1971), 748-750. (J. T. Scheick) 43 #7837

Zukhovitskii, S. I. See Zuhovickiĭ, S. I.

Zukhovitsky, S. I. See Zuhovickiĭ, S. I.

Žukov, V. A.

A proof of the theorem on the existence of the total differential of functions of class W_{p3}^{1}. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 189 (1966), 13-17. (C. Clark) 37 #758

(with Milojukov, V. M.) Angular boundary values of space mappings. (Russian) *Trudy Tomsk. Gos. Univ. Ser. Meh.-Mat.* 200 (1968), 88-95. (I. N. Baker) 41 #469

Žukov, V. P.

The variance of the number of zeros in narrow-band normal noise of finite duration. *Radiotehn. i Èlektron.* 10 (1965), 839-843 *(Russian); translated as Radio Engrg. and Electron. Phys.* 10 (1965), 714-718. (Author's summary) 32 #9123

Žukova, S. A.

(with Djad'kin, I. G.) The formulation of a problem for the Schrödinger equation and an algorithm for its solution by the Monte Carlo method. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 222-229. (E. H. Bareiss) 37 #3736

Žukovskiĭ, V. I.

Survey of works on stability of the trivial solution of a system of linear differential equations. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 12-25. 34 #4622

Conditional stability in the critical case of one null-root. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 26-29. (R. F. Datko) 35 #4531

Certain sufficient conditions for instability of the trivial solution of a system of two linear differential equations. (Russian) *Orehovo-Zuev. Ped. Inst. Učen. Zap. Kaf. Mat.* 22 (1964), *vyp.* 3, 30-34. (R. F. Datko) 35 #3177

Instability and conditional stability in the critical case of *n* zero roots. (Russian) *Differencial'nye Uravnenija* 1 (1965), 1601-1605. (M. Reghiş) 33 #1551

On the conditional stability in the critical case of a double zero root. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1966, *no.* 4 (53), 53-57. (Herbert I. Freedman) 33 #6054

(with Kalinin, S. V.) Conditional stability of motion of an object equipped with a device for automatic control in certain critical cases. (Russian. English summary) *Vestnik Moskov. Univ. Ser. I Mat. Meh.* 21 (1966), *no.* 4, 117-128. (R. Rishel) 34 #2363

Certain sufficient conditions for stability of the trivial solution of a system of two differential equations of first order. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 3 (58), 27-30. (M. Ráb) 35 #487

Conditional stability in the critical case of several pairs of purely imaginary roots. *Prikl. Mat. Meh.* 31 (1967), 453-459 *(Russian); translated as J. Appl. Math. Mech.* 31 (1967), 483-489. (F. Brauer) 39 #569

Conditional stability on a given time interval. (Russian) *Differencial'nye Uravnenija* 4 (1968), 858-867. (Š. Schwabik) 37 #5495

(with Beyreuther, J.) Zur bedingten Stabilität im Falle *k* verschwindender Wurzeln. *Math. Nachr.* 36 (1968), 345-350. (J. J. Schäffer) 38 #377

Žulamanov, K. D.

(with Harasahal, V. H.) Periodic solutions of differential equations containing a small parameter. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1966, *no.* 3, 71-75. (L. Pintér) 35 #495

Zulauf, M.

On two gauge classes and the invariance of the *S* matrix in quantum electrodynamics. *Helv. Phys. Acta* 39 (1966), 439-450. (Author's summary) 34 #2280

Žulenev, S. V.

A normal model in problems of stochastic programming. (Russian. Armenian summary) *Akad. Nauk Armjan. SSR Dokl.* 50 (1970), 268-272. (K. Wickwire) 44 #1434

A problem with random constraints, and a normal model. (Russian) *Ékonom. i Mat. Metody* 6 (1970), 757-764. (C. Bergthaller) 44 #7976

Žulina, Ju. V.

(with Bakut, P. A.; Kuznecov, S. E.) Optimal control for obtaining maximum information from observed random processes. *Izv. Akad. Nauk SSSR Tehn. Kibernet.* 1970, *no.* 2, 171-179 *(Russian); translated as Engrg. Cybernetics* 1970, *no.* 2, 353-361 (1971). (Authors' summary) 42 #9025

Žumabekov, L. Ž.

On a certain problem for a system of differential equations of the parabolic type. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October 17-22, 1963) (Russian)*, pp. 121-124. *Izdat. "Nauka", Kazah. SSR, Alma-Ata,* 1965. (R. K. Juberg) 36 #536a

On the solvability condition of a certain problem for a system of parabolic equations. (Russian) *Proc. First Kazakh Interuniv. Sci. Conf. on Math. Mech. (October 17-22, 1963) (Russian)*, pp. 125-128. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. (R. K. Juberg) 36 #536b

On the conditions for the solubility of a problem for a parabolic system with discontinuous coefficients. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1965, *no.* 1, 30-38. (P. C. Fife) 32 #6073

Solvability conditions of the first boundary problem on a half-plane for a parabolic system with discontinuous coefficients. (Russian) *Differential Equations and their Appl. (Russian)*, pp. 141-147. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. (R. Guenther) 35 #6983

The uniqueness of the solution of the Cauchy problem for a parabolic system with discontinuous coefficients. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat. Nauk* 1967, *no.* 3, 44-52. (R. Guenther) 35 #4580

A lemma on determinants. (Russian) *Certain Problems in Differential Equations (Russian)*, pp. 110-113. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. (D. Ž. Đoković) 39 #6892

(with Buralhiev, S.) The second boundary value problem on the half plane for a certain parabolic system with discontinuous coefficients. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1969, *no.* 1, 34-41. (A. Pelczar) 41 #4011

(with Kulekeev, K. D.) The Cauchy problem for a certain parabolic system with discontinuous coefficients. (Russian. Kazakh summary) *Izv. Akad. Nauk Kazah. SSR Ser. Fiz.-Mat.* 1970, *no.* 5, 45-51. (J. Chabrowski) 44 #4377

Žumartbaev, M. T.

Group properties of the equations of adiabatic motion of a medium in relativistic hydrodynamics. (Russian) *Ž. Prikl. Meh. i Tehn. Fiz.* 1969, *no.* 2, 116-120. 43 #7181

Zumino, Bruno

Theories with gauge groups. *Acta Phys. Austriaca, Suppl. II* (1965), 212-233. (D. B. Lichtenberg) 33 #3652

Zund, Joseph D.

Pontrjagin numbers and pseudo-Riemannian geometry. *Ann. Mat Pura Appl.* (4) 72 (1966), 319-324. (A. Gray) 38 #6512

Sur la radiation gravitationnelle. *C. R. Acad. Sci. Paris Sér. A - B* 262 (1966), A1081-A1083. (A. G. Walker) 33 #5355

Sur un opérateur de Bel, applications à la géométrie differentielle. *C. R. Acad. Sci. Paris Sér. A - B* 263 (1966), A410-A412. (C. W. Kilmister) 34 #3495

A theorem on spinor-tensors. *J. Math. Mech.* 15 (1966), 221-225. (Y.-C. Wong) 33 #6536

A note on the identities for the curvature tensor in non-Riemannian geometries. *Tensor (N.S.)* 17 (1966), 24-27. (M. C. Chaki) 33 #4853

Some theorems on spinor-tensors. *Ann. Mat. Pura Appl.* (4) 76 (1967), 1-9. (H. Rund) 36 #3266

(with Levine, Jack) Sur la radiation gravitationnelle. *C. R. Acad. Sci. Paris Sér. A - B* 264 (1967), A1029-A1032. (A. G Walker) 36 #2379

Koszul's formalism and the Ricci calculus. *Tensor (N.S.)* 18 (1967), 150-161. (H. Rund) 36 #3274

Topological aspects of the Bel-Petrov classification. *Ann. Mat. Pura Appl.* (4) 78 (1968), 365-375. (V. Hlavatý) 37 #4755

(with Levine, Jack) States of total pure radiation in gener relativity. *Ann. Mat. Pura Appl.* (4) 80 (1968), 373-386. (H. D. Pande) 39 #7924

(with Levine, Jack) Sur la caractéristique d'Euler-Poincaré et les classes de Pontrjagin pour quelques variétés riemanniennes de signature quelconque. *C. R. Acad. Sci. Paris Sér. A - B* 266 (1968), A535-A537. (T. J. Willmore) 37 #6875

(with Robinson, Ivor; Robinson, Joanna R.) Degenerate gravitational fields with twisting rays. *J. Math. Mech.* 18 (1968/69), 881-892. (A. H. Taub) 38 #6825

On the Euler-Poincaré characteristic of conformally related Riemannian manifolds. *Rend. Circ. Mat. Palermo* (2) 17 (1968), 249-256. (S. Kobayashi) 43 #2639

Some special classes of conformal transformations and curvatu tensors. *Tensor (N.S.)* 19 (1968), 8-10. (T. J. Willmore) 36 #7076

(with Robinson, Joanna R.) A theorem on geodesic mappings. *Tensor (N.S.)* 19 (1968), 300-302. (K. Nomizu) 38 #1629; erratum 38, p. 1378

Algebraic invariants and the projective geometry of spinors. *Ann. Mat. Pura Appl.* (4) 82 (1969), 381-412. (H. A. Buchdahl) 40 #1915

(with Maher, William, Jr.) Sur un théorème de Bel, Lapiedra et Montserrat en relativité générale. *C. R. Acad. Sci. Paris Sér. A - B* 268 (1969), A1231-A1232. (W. B. Bonnor) 39 #6604

(with Maher, William, Jr.) Sur le champ électromagnétique singulier généralisé. *C. R. Acad. Sci. Paris Sér. A - B* 268 (196 A1307-A1308. (W. B. Bonnor) 39 #6605

(with Maher, W. F., Jr.) A spinor approach to some problems in Lorentzian geometry. *Tensor (N.S.)* 21 (1970), 70-74. (H. A. Buchdahl) 40 #6935

(with Levine, Jack) The Euler-Poincaré and Pontrjagin characteristic classes of pseudo-Riemannian manifolds. *Tensor (N.S.)* 21 (1970), 250-254. (M. S. Raghunathan) 42 #8430

A note on the Bel-Robinson spinor. *Tensor (N.S.)* 21 (1970), 354-358. (A. H. Taub) 41 #9557

(with Brown, Ezra) The theory of bivectors. *Tensor (N.S.)* 22 (1971), 179-185. (A. H. Taub) 44 #5087

Zunnunov, S. N.

On the theory of solving equations of motion for systems wit variable mass. (Russian) *Taškent. Gos. Univ. Naučn. Trudy* 265 (1964), 49-55. (Şt. I. Gheorghiţă) 33 #2024

Zuparov, T. M.

Uniform local theorems for a certain class of random variabl (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. N* 12 (1968), *no.* 5, 13-19. (J. G. Wendel) 40 #8118

Uniform estimation in the local limit theorem for lattice distributions. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 12 (1968), *no.* 6, 14-20. (G. K. Eagleson) 41 #4624

A multidimensional additive problem with a growing number of terms. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 2, 21-27. (D. Ugrin-Šparac) 43 #6177

(with Šahaĭdarova, N.) A certain estimate of the remainder term in the central limit theorem. (Russian. Uzbek summary) *Izv. Akad. Nauk UzSSR Ser. Fiz.-Mat. Nauk* 13 (1969), *no.* 5, 28-33. (B. Volkmann) 44 #6014

Zupnik, David

Polyadic semigroups. *Publ. Math. Debrecen* 14 (1967), 273-27 (F. M. Sioson) 36 #5257

On interassociativity and related questions. *Aequationes Math.* 6 (1971), 141-148. (P. Javor) 44 #7178

ieZur, R. S. See DeZur, R. S.

urakova, V. K.

(with Topoljans'kiĭ, D. B.) The approximate solution of integro-differential equations by a generalized method of moments. (Russian) *Studies in Contemporary Problems of Summability and the Approximation of Functions and in their Applications, Part II (Russian), pp. 72-76. Dnepropetrovsk. Gos. Univ., Dnepropetrovsk,* 1969. (L. Guggenbuhl) 42 #8217

uravlev, Ju. I.

Set-theoretic methods in a Boolean algebra. (Russian) *Problemy Kibernet.* 8 (1962), 5-44. (E. J. Cogan) 29 #4672

Algorithms with finite memory over disjunctive normal forms. (Russian) *Diskret. Analiz. No.* 1 (1963), 5-12. (E. M. Fels) 29 #2169

On inessential variables of functions of a Boolean algebra which are not defined everywhere. (Russian) *Diskret. Analiz. No.* 1 (1963), 28-31. (E. M. Fels) 29 #2172

Normal forms of functions in the algebra of logic. (Russian) *Proc. Fourth All-Union Math. Congr. (Leningrad,* 1961*)(Russian), Vol. II, pp.* 72-77. *Izdat. "Nauka", Leningrad,* 1964. (E. M. Fels) 36 #6261

On a class of functions of the algebra of logic which are not everywhere defined. (Russian) *Diskret. Analiz. No.* 2 (1964), 23-27. (E. M. Fels) 29 #2170

On a class of algorithms for choosing an element from a finite set. (Russian) *Diskret. Analiz. No.* 2 (1964), 28-36. (E. M. Fels) 29 #2171

Appraisals of the complexity of algorithms for the construction of minimal disjunctive normal forms for the functions of the algebra of logic. (Russian) *Diskret. Analiz No.* 3 (1964), 41-77. (E. M. Fels) 32 #3989

An estimate of complexity of local algorithms for certain extremal properties on finite sets. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 1018-1021. (E. J. Cogan) 29 #3374

Selection algorithms for sets of real variables of functions not everywhere defined in an algebra of logic. (Russian) *Problemy Kibernet. No.* 11 (1964), 271-275. (E. M. Fels) 30 #1046

ravlev, O. G.

Minimum sufficient statistics for a sequence of independent random variables. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 11 (1966), 320-330. (Soren Johansen) 34 #2047

ravlev, S. G.

The stability of certain particular solutions that are close to the libration points of a rotating ellipsoid. (Russian) *Collection of Sci. Works of Graduates, No. VI: Mathematics, Mechanics, Physics (Russian), pp.* 111-117. *Univ. Družby Narodov, Moscow,* 1969. (Q. K. Ghori) 44 #7813

ravlev, V. I.

(with Meščerjakov, V. A.; Rerih, K. V.) One new type of solution for the Chew-Low type equations. *Jadernaja Fiz.* 10 (1969), 168-175 *(Russian); translated as Soviet J. Nuclear Phys.* 10 (1970), 96-99. (J. N. Islam) 41 #7962

rbenko, I. G.

Certain moments of random determinants. (Russian. English summary) *Teor. Verojatnost. i Primenen.* 13 (1968), 720-725. (J. L. Denny) 39 #4979

rina, M. I.

* (with Karmazina, L. N.) Tables of the Legendre functions $P_{-1/2+i\tau}(x)$. Part I. Translated by D. E. Brown. Mathematical Tables Series, Vol. 22. *Pergamon Press, Oxford-New York-Paris-Frankfurt,* 1964. xv + 308 *pp.* (John Todd) 29 #6609

* (with Osipova, L. N.) Таблицы вырожденной гипергеометрической функции. (Russian) [Tables of the confluent hypergeometric function] *Vyčisl Centr Akad. Nauk SSSR, Moscow,* 1964. xviii + 244 *pp.* (A. H. Stroud) 30 #2168

* (with Karmazina, L. N.) Tables of the Legendre functions $P_{-1/2+i\tau}(x)$. Part II. Translated by Prasenjit Basu. Mathematical Tables Series, Vol. 38. A Pergamon Press Book. *The Macmillan Co., New York,* 1965. xiii + 409 *pp.* (Editors) 34 #4566

* (with Karmazina, L. N.) Tables and formulae for the spherical functions $P^{m}_{-1/2+i\tau}(z)$. Translated by E. L. Albasiny. *Pergamon Press, Oxford-New York-Paris,* 1966. vii + 108 *pp.* (Editors) 34 #2950

* (with Karmazina, L. N.) Таблицы модифицированных функций Бесселя с мнимым индексом $K_{i\tau}(x)$. (Russian) [Tables of modified Bessel functions with imaginary index $K_{i\tau}(x)$] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. xii + 342 *pp.* (John Todd) 35 #1174

rkowski, Jan

(with Nykowski, Ireneusz) On balancing the demand and supply of some points in transportation problems. (Polish. Russian and English summaries) *Przegląd Statyst.* 10 (1963), 411-421. (Authors' summary) 32 #9048

(with Nykowski, Ireneusz) On some problems of allocation of production which can be reduced to the transportation scheme. (Polish. Russian and English summaries) *Przegląd Statyst.* 11 (1964), 183-193. 32 #9049

Zurmühl, Rudolf

* Matrizen und ihre technischen Anwendungen. Vierte neubearbeitete Auflage. *Springer-Verlag, Berlin,* 1964. xii + 452 *pp.* (A. S. Householder) 29 #2962

Zur angenäherten ganzrationalen Tschebyscheff-Approximation mit Hilfe trigonometrischer Interpolation. *Numer. Math.* 6 (1964), 1-5. (G. Meinardus) 30 #5105

Zusmanovič, M. S.

(with Dašnic, L. S.) Refinement of the region of the location of the points of the spectrum of matrix. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 163-164. (H. Schwerdtfeger) 35 #2475

(with Dašnic, L. S.) Certain relations for the characteristic numbers of matrices. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 7 (1967), 867-869. (D. Ž. Djoković) 35 #5457

(with Dašnic, L. S.) On the question of the localization of the eigenvalues of a matrix. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 1321-1327. (A. S. Householder) 39 #2789

(with Dašnic, L. S.) Certain criteria for the regularity of matrices and the localization of their spectrum. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 10 (1970), 1092-1097. (F. Szidarovszky) 43 #8225

Zvárová, Jana

The asymptotic distribution of sample information measure of dependence. (Czech. English summary) *Kybernetika (Prague)* 5 (1969), 50-59. (Editors) 39 #3901

Zvengrowski, Peter

A 3-fold vector product in R^8. *Comment. Math. Helv.* 40 (1966), 149-152. (J. F. Adams) 32 #8343

Canonical vector fields on spheres. *Comment. Math. Helv.* 43 (1968), 341-347. (I. M. James) 40 #6578

Zverca, Mariana Crişan. See Crişan-Zverca, Mariana.

Zverkin, A. M.

On the equivalence of various classes of initial conditions for equations with deviating argument. (Russian) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 1 (1962), 63-68. (R. D. Driver) 32 #263

Existence and uniqueness theorems for an equation with deviating argument in a critical case. (Russian) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 1 (1962), 37-46. (R. D. Driver) 31 #6039

(with Kamenskiĭ, G. A.; Norkin, S. B.; Èl'sgol'c, L. È.) On differential equations with retarded argument. II. (Russian) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 2 (1963), 3-49. (K. L. Cooke) 31 #4963

On the completeness of system of particular solutions of a differential equation with time lag and with periodic coefficients. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 2 (1963), 94-112. (K. L. Cooke) 31 #4964

Solution of linear equations with retarded argument by the method of successive integration. (Russian. French summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 2 (1963), 146-161. (Author's summary) 35 #508

On an exceptional case of the distribution of zeros of a quasi-polynomial. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 2 (1963), 238-242. (W. A. Coppel) 30 #4046

Series expansion of solutions of linear difference-differential equations. I. Quasipolynomials. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 3 (1965), 3-38. (J. C. Lillo) 34 #1646

(See also Bellman, R.; Cooke, K. L., 36 #4097; and Massera, José Luis; Schäffer, Juan Jorge, 42 #3331)

Series expansion of solutions of linear differential-difference equations. II. Series expansions of solutions. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 3-50. (J. K. Hale) 36 #2923

On the theory of the singular points of equations with retarded argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 182-186. (S. P. Hastings) 36 #1792

Definition of the concept of solution for equations with deviating argument of neutral type. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravnenii s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 278-283. (J. K. Hale) 35 #4544

Differential equations with deviating argument. (Russian) *Fifth Math. Summer School (Uzhgorod, 1967): The Theory of Ordinary Differential Equations and Nonlinear Oscillations (Russian), pp.* 307-399. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. (M. Švec) 42 #3387

The connection between boundedness and stability of solutions of linear systems with an infinite number of degrees of freedom. (Russian) *Differencial'nye Uravnenija* 4 (1968), 366-367. (C. Corduneanu) 37 #1726

The completeness of a Floquet type system of solutions for equations with retardation. (Russian) *Differencial'nye Uravnenija* 4 (1968), 474-478. (J. K. Hale) 37 #4373

(with Gromova, P. S.) Trigonometric series whose sum is a continuous unbounded function on the real axis and is a solution of an equation with deviating argument. (Russian) *Differencial'nye Uravnenija* 4 (1968), 1774-1784. (R. F. Datko) 39 #3117

(with Vasil'eva, A. B.; Kamenskiĭ, G. A.; Myškis, A. D.; Norkin, S. B.; Tihonov, A. N.) Lev Èrnestovič Èl'sgol'c. (Russian) *Uspehi Mat. Nauk* 23 (1968), *no.* 2 (140), 193-200. (1 *plate*) (Editors) 36 #4950

An application of comparison theorems to the investigation of the stability of equations with lag. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 3-16. (M. Bertolino) 39 #4501

Zverkina, T. S.

Approximate solution of differential equations with retarded argument and differential equations with discontinuous right-hand sides. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 1 (1962), 76-93. (A. Myškis (RŽMat 1963 #7 V2)) 32 #2708

A modification of finite-difference methods for integrating ordinary differential equations with non-smooth solutions. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), *suppl. no.* 4, 149-160. (K. L. Cooke) 35 #2492

A modified Adams' formula for the integration of equations with deviating argument. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 3 (1965), 221-232. (Walter Gautschi) 33 #5131

A new class of finite difference operators. (Russian) *Dokl. Akad. Nauk SSSR* 171 (1966), 33-36. (G. R. Sell) 36 #7331

On the question of numerical integration of systems with retardation. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 164-172. (J. K. Hale) 36 #7332

(with Gorbunov, A. D.) The solution of decomposable differential-difference equations. (Russian. English summary) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 4 (1967), 267-272. (A. Halanay) 37 #538

Finite difference methods for integrating differential equations with lag. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 5 (1967), 85-89. (L. J. Grimm) 38 #2954

A new class of finite difference operators. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 5 (1967), 90-106. (O. Em. Gheorghiu) 37 #628

A one-parameter analogue of the Adams formulas. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 8 (1968), 797-807. (I. M. Sheffer) 38 #868

On the question of the choice of the method of integration of equations with deviating argument. (Russian) *Trudy Sem. Teor. Differencial. Uravneniĭ s Otklon. Argumentom Univ. Družby Narodov Patrisa Lumumby* 7 (1969), 75-81. (J. K. Hale) 39 #7821

Zverovič, È. I. See Zvīrovič, E. Ī.

Zverovič, L. F.

A certain approximate method of finding a solution minimal in the norm for finite systems. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 9 (1969), 1168-1170. (I. Păvăloiu) 42 #2648

Zvīrovič, E. Ī.

(with Litvinčuk, G. S.) The Riemann boundary problem for two pairs of functions with degenerate coefficient matrix. (Russian) *Kabardino-Balkarsk. Gos. Univ. Učen. Zap. Ser. Fiz.-Mat. No.* 19 (1963), 149-153. (A. D. Solomon) 32 #5896

A boundary-value problem of Carleman type for multiply connected domains. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1270-1272. (J. F. Heyda) 29 #1343

Boundary-value problems with shift on abstract Riemann surfaces. (Russian) *Dokl. Akad. Nauk SSSR* 157 (1964), 26-29. (A. D. Solomon) 29 #3649

Reduction of Hilbert's problem for a **multiply**-connected region to Hilbert's problem with a rational coefficient. *Dokl. Akad. Nauk SSSR* 157 (1964), 777-780 *(Russian); translated as Soviet Math. Dokl.* 5 (1964), 1011-1014. (J. L. Kazdan) 36 #2813

(with Litvinčuk, G. S.) One-sided boundary-value problems in the theory of analytic functions. (Russian) *Izv. Akad. Nauk SSSR Ser. Mat.* 28 (1964), 1003-1036. (J. F. Heyda) 30 #3226

A boundary-value problem of Carleman type for multiply connected domains. (Russian) *Mat. Sb. (N.S.)* 64(106) (1964), 618-627. (J. F. Heyda) 29 #4901

Boundary value problems with a shift on abstract Riemann surfaces. (Russian) *Sibirsk. Mat. Ž.* 7 (1966), 804-819. (R. A. Kordzadze) 36 #2814

(with Litvinčuk, G. S.) Boundary value problems with shift for analytic functions, and singular functional equations. (Russi *Uspehi Mat. Nauk* 23 (1968), *no.* 3 (141), 67-121. (J. F. Heyda) 37 #5405

The Behnke-Stein kernel and the solution in closed form of the Riemann boundary value problem on the torus. (Russian) *Dokl. Akad. Nauk SSSR* 188 (1969), 27-30. (P. Caraman) 41 #7125

Analogues of the Cauchy kernel and the Riemann boundary value problem on a certain hyperelliptic surface. (Russian) *Dokl. Akad. Nauk SSSR* 192 (1970), 487-490. (W. Žakowski) 42 #6222

A construction in explicit form of the analogue of the Cauchy kernel on the Riemann surfaces of certain algebraic functions. (Russian) *Mat. Zametki* 8 (1970), 693-701. (M. H. Heins) 43 #5027

(with Popov, G. Ja.) Some new relations for Čebyšev-Laguerre polynomials. (Russian) *Sibirsk. Mat. Ž.* 11 (1970), 926-937, 959. (D. P. Gupta) 42 #6501

Constructive solutions of the Riemann boundary value problem on hyperelliptic Riemann surfaces. *Dokl. Akad. Nauk SSSR* 199 (1971), 758-761 *(Russian); translated as Soviet Math. Dokl.* 12 (1971), 1157-1161. (H. Röhrl) 44 #2931

Zvjagina, R. A.

Problems of linear programming with matrices of a narrow block structure. (Russian) *Optimal. Planirovanie Vyp.* 15 (1970), 33-47. (S. Zlobec) 44 #7971

Zvjagincev, B. N.

Some statistical properties of the second derivative of the envelope of a normal random process. *Radiotehn. i Èlektron.* 10 (1965), 749-751 *(Russian); translated as Radio Engrg. and Electron. Phys.* 10 (1965), 635-637. 32 #9124

Zvolinskiĭ, N. V.

(with Rykov, G. V.) Reflection of a plastic wave at an obstacle. *Stress Waves in Anelastic Solids (Sympos., Brown Univ., Providence, R. I., 1963), pp.* 207-221. *Springer, Berlin,* 1964. (P. P. Teodorescu) 30 #2770

(with Flitman, L. M.; Kostrov, B. V.; Afanas'ev, V. A.) Some problems of diffraction of elastic waves. (Russian) *Appl. Theory of Functions in Continuum Mechanics (Proc. Internat. Sympos., Tbilisi, 1963), Vol. I, Mechanics of Solids (Russian), pp* 432-443. *Izdat. "Nauka", Moscow,* 1965. (S. Kaliski) 32 #6771

(with Rykov, G. V.) Reflection and refraction of plane plastic waves. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 1041-1043. (N. Cristescu) 31 #2909

Zvolinsky, N. V. See Zvolinskiĭ, N. V.

Zvonov, E. N.

* (with Rabotnov, Ju. N.; Papernik, L. H.) Таблицы дробно-экспоненциальной функции отрицательных параметров и интеграла от лее. (Russian) [Tables of the fractional-exponential function o negative parameters and its integral] *Izdat. "Nauka", Moscow,* 1969. 132 *pp.* (J. Burlak) 42 #5420

Zvorykin, L. L.

(with Alekseeva, E. V.; Barancev, R. G.; Butov, V. F.) Calculation of standard integrals in moment kinetic equations. (Russian *Aerodynamics of Rarefied Gases (Russian), Coll. II, pp.* 79-97. *Izdat. Leningrad. Univ., Leningrad,* 1965. 33 #1106

Zvyaghintsev, B. N. See Zvjagincev, B. N.

Zwahlen, Bruno Peter

Über die Eigenwerte der Summe zweier selbstadjungierter Operatoren. *Comment. Math. Helv.* 40 (1966), 81-116. (J. Hersch) 32 #7566

(with **Matsinger**, Heinrich) Orthogonalabgeschlossene Mengen und lineare Topologien. *Comment. Math. Helv.* 41 (1966/67), 303-306. (R. W. Bagley) 35 #826

Untere Schranken für die Eigenwerte eines Differentialoperators. Ein Beispiel. *Z. Angew. Math. Mech.* 46 (1966), 465-468. 34 #5272

(with Bazley, N.) Remarks on the bifurcation of solutions of a nonlinear eigenvalue problem. *Arch. Rational Mech. Anal.* 28 (1967/68), 51-58. (W. W. Hooker) 36 #4858

(with Gustafson, Karl) On the cosine of unbounded operators. *Acta Sci. Math. (Szeged)* 30 (1969), 33-34. (J. B. Deeds) 39 #6099

(with Bazley, N. W.) Verzweigungen von Lösungen nichtlinearer Eigenwertprobleme. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 267-269. (G. A. Klaasen) 42 #4808

(with Bazley, Norman) Estimation of the bifurcation coeffici for nonlinear eigenvalue problems. (German summary) *Z. Angew. Mat Phys.* 20 (1969), 281-288. (W. W. Hooker) 40 #6314

(with Bazley, Norman) A branch of positive solutions of nonlinear eigenvalue problems. *Manuscripta Math.* 2 (1970), 365-374. (Melvyn S. Berger) 42 #3628

(with Bazley, Norman; Reeken, Michael) Global properties of the minimal branch of a class of nonlinear variational problems. *Math. Z.* 123 (1971), 301-309. (L. Janos) 44 #7401

Zwang, H. G. See Cvang, H. G.

wanzig, Robert W.

Hydrodynamic fluctuations and Stokes' law friction. *J. Res. Nat. Bur. Standards Sect. B* 68B (1964), 143-145. (J. L. Lumley) 32 #4973

On the identity of three generalized master equations. *Physica* 30 (1964), 1109-1123. (G. Weiss) 32 #932

(with Larsen, Sigurd Yves; Mountain, Raymond D.) On the validity of the Lorentz-Lorenz equation near the critical point. *J. Chem. Phys.* 42 (1965), 2187-2190. (L. Tisza) 33 #2343

Approximate eigenfunctions of the Liouville operator in the classical many-body systems. *Phys. Rev.* (2) 144 (1966), 170-177. (M. D. Girardeau) 33 #3731

(with Ninham, Barry; Nossal, Ralph) Kinetics of a sequence of first-order reactions. *J. Chem. Phys.* 51 (1969), 5028-5033. (Roy R. Johnson) 42 #4142

(with Ailawadi, Narinder K.) Statistical error due to finite time averaging in computer experiments. *Phys. Rev.* (2) 182 (1969), 280-283. (R. R. Coveyou) 40 #6732

(with Bixon, Mordechai) Boltzmann-Langevin equation and hydrodynamic fluctuations. *Phys. Rev.* (2) 187 (1969), 267-272. (M. Dutta) 43 #4401

wanziger, Daniel

Simple theorem on Hermitian matrices and an application to the polarization of vector particles. *Phys. Rev.* (2) 136 (1964), B558-B562. (R. L. Warnock) 31 #1971

Dirac magnetic poles forbidden in *S*-matrix theory. *Phys. Rev.* (2) 137 (1965), B647-B648. (R. F. Stora) 33 #1036

Precession of relativistic particles of arbitrary spin in a slowly varying electromagnetic field. *Phys. Rev.* (2) 139 (1965), B1318-B1322. (Roland Good, Jr.) 32 #8723

wart, Philip B.

Nonlinear programming: Global use of the Lagrangian. *J. Optimization Theory Appl.* 6 (1970), 150-160. (K. Swarup) 42 #4206

Nonlinear programming: A quadratic analysis of ridge paralysis. *J. Optimization Theory Appl.* 6 (1970), 331-339. (G. Berman) 42 #7287

Nonlinear programming--The choice of direction by gradient projection. *Naval Res. Logist. Quart.* 17 (1970), 431-438. (J. Falk) 43 #1642

was, Gideon

(with Abarbanel, S.) An iterative finite-difference method for hyperbolic systems. *Math. Comp.* 23 (1969), 549-565. (Authors' summary) 40 #1044

weifel, James R.

(with Gart, John J.) On the bias of various estimators of the logit and its variance with application of quantal bioassay. *Biometrika* 54 (1967), 181-187. (Authors' summary) 35 #5051

weifel, P. F.

(with Kuščer, I.) Time-dependent one-speed Albedo problem for a semi-infinite medium. *J. Mathematical Phys.* 6 (1965), 1125-1130. (G. M. Wing) 31 #5643

(with Rosenbaum, M.) Quasiclassical theory of neutron scattering. *Phys. Rev.* (2) 137 (1965), B271-B284. (N. S. Wall) 32 #3672

(with Siewert, C. E.) An exact solution of equations of radiative transfer for local thermodynamic equilibrium in the non-gray case. Picket fence approximation. *Ann. Physics* 36 (1966), 61-85. (H. H. Kagiwada) 32 #7170

* (with Case, Kenneth M.) Linear transport theory. *Addison-Wesley Publishing Co., Reading, Mass.-London-Don Mills, Ont.*, 1967. ix + 342 *pp.* (G. M. Wing) 37 #1140

(with Pahor, S.) Invariant imbedding and Case eigenfunctions. *J. Mathematical Phys.* 10 (1969), 581-589. (Authors' summary) 43 #2921

eig, G.

(with Feyman, R. P.; Gell-Mann, M.) Group U(6) ⊗ U(6) generated by current components. *Phys. Rev. Lett.* 13 (1964), 678-680. (D. B. Lichtenberg) 30 #4511

(with Zachariasen, F.) $U(\overline{12})$ and time reversal violation in the weak interactions. *Coral Gables Conferences on Symmetry Principles at High Energy*, 1965, *pp.* 362-370.. *Freeman, San Francisco*, 1965. (P. Roman) 31 #5557

(with Zachariasen, F.) $U(\overline{12})$ and time-reversal asymmetry in the weak interactions. *Phys. Rev. Lett.* 14 (1965), 794-798. (S. L. Glashow) 31 #3110

eig Chinn, Phyllis. See Chinn, Phyllis Zweig.

an Zwet, Willem R.

* Convex transformations of random variables. Mathematical Centre Tracts, 7. *Mathematisch Centrum, Amsterdam*, 1964. vi + 116 *pp.* (E. H. Lehman, Jr.) 31 #783

Convex transformations: A new approach to skewness and kurtosis. (Dutch summary) *Statistica Neerlandica* 18 (1964) 433-441. (C. Hayashi) 30 #5402

(with Molenaar, W.) On mixtures of distributions. *Ann. Math. Statist.* 37 (1966), 281-283. (H. Teicher) 32 #4720

Bias in estimation from type I censored samples. *Statistica Neerlandica* 20 (1966), 143-148. (K. L. Mehra) 34 #888

(with Oosterhoff, J.) On the combination of independent test statistics. *Ann. Math. Statist.* 38 (1967), 659-680. (N. L. Johnson) 35 #7474

An inequality for expected values of sample quantiles. *Ann. Math. Statist.* 38 (1967), 1817-1821. (R. E. Barlow) 36 #1063

On convexity preserving families of probability distributions. *Statistica Neerlandica* 22 (1968), 23-32. (A. Fuchs) 36 #6036

(with in't Veld, R. J.) Elections without a winner. (Dutch. English summary) *Statistica Neerlandica* 23 (1969), 269-276. (Authors' summary) 41 #4608

(with Barlow, Richard E.) Asymptotic properties of isotonic estimators for the generalized failure rate function. I. Strong consistency. With discussion by A. W. Marshall. *Nonparametric Techniques in Statistical Inference (Proc. Sympos., Indiana Univ., Bloomington, Ind.*, 1969*), pp.* 159-176. *Cambridge Univ. Press, London*, 1970. (H. L. Harter) 43 #1360

(with Fabius, J.) Some remarks on the two-armed bandit. *Ann. Math. Statist.* 41 (1970), 1906-1916. (Harry I. Cohn) 43 #4184

Zwick, Walter

Nichtlineare Methode zur Berechnung des Einflusses der freien Oberfläche auf die Umströmung eines elliptischen Zylinders. *Monatsb. Deutsch. Akad. Wiss. Berlin* 6 (1964), 894-901. (T. Yao-tsu Wu) 32 #695

Nichtlineare Methode zur Berechnung des Einflusses der freien Oberfläche auf die Umströmung eines dicken Tragflügels. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 7-14. (T. Yao-tsu Wu) 32 #696

Nichtlineare Methode zur Berechnung des Einflusses der Kavitation auf die Umströmung eines Tragflügels. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 77-83. (T. Yao-tsu Wu) 32 #697

(with Schemmel, H.) Näherungsmethoden zur Lösung des nichtlinearen Transportproblems. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 159-164. (E. L. Johnson) 33 #3778a

(with Schemmel, H.) Näherungsmethoden zur Lösung des nichtlinearen Mehrindex-Transportproblems. *Monatsb. Deutsch. Akad. Wiss. Berlin* 7 (1965), 173-178. (E. L. Johnson) 33 #3778b

Über numerische Methoden zur Lösung von Integralgleichungen aus der Tragflügeltheorie. Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). *Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt* 11 (1969), 395-405. (G. F. Miller) 44 #6176

Zwier, Paul J.

Prime ideals in a large class of nonassociative rings. *Trans. Amer. Math. Soc.* 158 (1971), 257-272. (C. Tsai) 43 #7478

Zwikker, C.

* The advanced geometry of plane curves and their applications. (Formerly titled: *Advanced plane geometry*) *Dover Publications, Inc., New York*, 1963. xii + 299 *pp.* (P. J. Davis) 29 #3924

Zwinogrodzki, Zbigniew

On a problem of the logic of induction: A contribution to the problem of induction and determinism. (Polish. English and Russian summaries) *Zeszyty Nauk. Uniw. Jagiello. Prace z Logiki Zeszyt* 1 (1965), 85-101. (From the author's summary) 36 #4970

Zwolinsky, N. V. See Zvolinskiĭ, N. V.

Zyablov, V. V. See Zjablov, V. V.

Zybin, L. M.

On conditions for the convergence of a sequence of linear operators of class S_m. (Russian) *Novgorod. Golovn. Gos. Ped. Inst. Učen. Zap.* 7 (1966), 37-43. (A. B. Buche) 37 #4473

Zybina, L. D.

On relations determining the order of certain endomorphisms of an ordered set. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 274 (1965), 106-121. (G. Grätzer) 33 #5526

Aggregates of relations determining the ordering of partial endomorphisms. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 274 (1965), 122-142. (G. Grätzer) 34 #110

Semigroups in which every ordering is bilaterally stable. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 302 (1967), 70-76. (R. A. Good) 36 #3905

The relations which define the ordering of certain linear functions. (Russian) *Leningrad. Gos. Ped. Inst. Učen. Zap.* 328 (1967), 111-123. (Št. Schwarz) 37 #1288

Zybina, T. T.

(with Gromova, L. L.) Certain averages for star-shaped functions. (Russian) *Saratov. Gos. Ped. Inst. Učen. Zap. Vyp.* 46 (1968), 6-12. (E. Złotkiewicz) 42 #484

Życzkowski, Michał

On numerical evaluation of the maximum of a function. (Polish and Russian summaries) *Zastos. Mat.* 8 (1965), 67-74. (G. Blanch) 30 #5467 (with Waszczyszyn, Z.) Approximation formulals for the real roots of a cubic equation. (Polish. Russian and English summaries) *Zastos. Mat.* 8 (1966), 243-254. (A. Sharma) 34 #2175

Zygmund, Antoni

(with Calderón, A. P.) On higher gradients of harmonic functions. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk, 1963), pp.* 57-60. *Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (L. Lumer-Naïm) 35 #5647

(with Calderón, A. P.) On higher gradients of harmonic functions. *Studia Math.* 24 (1964), 211-226. (J. Mitchell) 29 #4903

* (with Saks, Stanisław) Analytic functions. Second edition, enlarged. Translated by E. J. Scott. Monografie Matematyczne, Tom 28. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1965. ix + 508 *pp.* (Editors) 31 #4889

* Тригонометрические ряды. Томы I, II. (Russian) [Trigonometric series. Vols. I, II.] *Izdat. "Mir", Moscow,* 1965. *Vol. I:* 615 *pp. Vol. II:* 537 *pp.* (Editors) 31 #2554

(with Stein, E. M.) On the fractional differentiability of functions. *Proc. London Math. Soc.* (3) 14a (1965), 249-264. (S. Marcus) 31 #1340

(with Weiss, Mary) An example in the theory of singular integrals. *Studia Math.* 26 (1965), 101-111. (H. Kober) 32 #8067

(with Stein, E. M.) Boundedness of translation invariant operators on Hölder spaces and L^p-spaces. *Ann. of Math.* (2) 85 (1967), 337-349. (G. Geymonat) 35 #5964

A note on the differentiability of integrals. *Colloq. Math.* 16 (1967), 199-204. (Chr. Y. Pauc) 35 #1732

Mary Weiss: December 11, 1930-October 8, 1966. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill.,* 1967*), pp.* xi-xviii. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (Editors) 37 #6153

(with Stein, E. M.) On the boundary behavior of harmonic functions. *Orthogonal Expansions and their Continuous Analogues (Proc. Conf., Edwardsville, Ill.,* 1967*), pp.* 127-141. *Southern Illinois Univ. Press, Carbondale, Ill.,* 1968. (Ü. Kuran) 38 #2322

* Trigonometric series: Vols. I, II. Second edition, reprinted with corrections and some additions. *Cambridge University Press, London-New York,* 1968. *Vol. I:* xiv + 383 *pp.*; *Vol. II:* vii + 364 *pp. (two volumes bound as one)* (Edwin Hewitt) 38 #4882

(with Weiss, Mary) On multipliers preserving convergence of trigonometric series almost everywhere. *Studia Math.* 30 (1968), 111-120. (D. Waterman) 38 #2526

On certain lemmas of Marcinkiewicz and Carleson. *J. Approximation Theory* 2 (1969), 249-257. (D. Waterman) 41 #6022

* (with Saks, S.) Fonctions analytiques. Traduit de l'anglais par M. Lahy. *Masson et C^{ie}, Éditeurs, Paris,* 1970. ii + 389 *pp.* (Editors) 42 #4708

A theorem on the formal multiplication of trigonometric series. *Functional Analysis and Related Fields (Proc. Conf. for M. Stone, Univ. Chicago, Chicago, Ill.,* 1968*), pp.* 224-227. *Springer, New York,* 1970. (S. Izumi) 43 #800

Zykov, A. A.

} Recursively calculable functions of graphs. *Theory of Graphs and its Applications (Proc. Sympos. Smolenice,* 1963*), pp.* 99-105. *Publ. House Czechoslovak Acad. Sci., Prague,* 1964. (H. Sachs) 31 #92

Graph-theoretical results of Novosibirsk mathematicians. *Theory of Graphs and its Applications (Proc. Sympos. Smolenice,* 1963*), pp.* 151-153. *Publ. House Czechoslovak Acad. Sci., Prague,* 1964. 30 #2497

Bibliography. *Theory of Graphs and its Applications (Proc. Sympos. Smolenice,* 1963*), pp.* 171-234. *Publ. House Czechoslovak Acad. Sci., Prague,* 1964. (Editors) 41 #3317

* Теория конечных графов. I. (Russian) [Theory of finite graphs. I.] *Izdat. "Nauka" Sibirsk. Otdel., Novosibirsk,* 1969. 543 *pp.* (W. Imrich) 42 #5847

A certain vector space connected with Hadwiger's hypothesis. (Russian) *Dokl. Akad. Nauk SSSR* 187 (1969), 1235-1238. (W. Mader) 40 #4168

(with Kesselman, D. Ja.; Neĭmark, Ju. I.; Podkorytov, V. N.) Über ein Verfahren zur Färbung ebener Triangulationen. *Math. Nachr.* 40 (1969), 51-59. (H. Fleischner) 44 #1603

Zykov, Ju. A.

On zero-dimensional mappings of regions. (Russian) *Mat. Zametki* 1 (1967), 479-486. (P. Caraman) 35 #986

Zylev, V. B.

On the equidissactability of two equi-completable polytopes. (Russian) *Dokl. Akad. Nauk SSSR* 161 (1965), 515-516. (E. M. Bruins) 31 #1610

G-composedness and *G*-complementability. (Russian) *Dokl. Akad. Nauk SSSR* 179 (1968), 529-530. (H. Salzmann) 37 #2069

Zypkin, Ja. S. See Cypkin, Ja. Z.

Zyrjanov, V. N.

Certain properties of bivarieties in categories. (Russian) *Sibirsk. Mat. Ž.* 12 (1971), 536-545. (J. R. Isbell) 44 #283

Zyskind, George

(with Martin, Frank B.) On combinability of information from uncorrelated linear models by simple weighting. *Ann. Math. Statist.* 37 (1966), 1338-1347. (D. A. Sprott) 33 #5052

On canonical forms, non-negative covariance matrices and best and simple least squares linear estimators in linear models. *Ann. Math. Statist.* 38 (1967), 1092-1109. (D. A. Sprott) 35 #5088

* (with Kempthorne, O.; Martin, F. B.; Carney, E. J.; West, E. N.) Linear models and analysis of variance research procedures. ARL 68-0119. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Wright-Patterson Air Force Base, Ohio,* 1968. iv + 180 *pp.* (M. J. Karson) 38 #6690

Parametric augmentations and error structures under which certain simple least squares and analysis of variance procedures are also best. *J. Amer. Statist. Assoc.* 64 (1969), 1353-1368. 40 #5087

(with Martin, Frank B.) On best linear estimation and a general Gauss-Markov theorem in linear models with arbitrary nonnegative covariance structure. *SIAM J. Appl. Math.* 17 (1969), 1190-1202. (D. R. Brillinger) 41 #6371

(The sign } indicates an entry in the supplement.)

arhus Summer School Lectures
* Phonons and phonon interactions. Aarhus Summer School Lectures, 1963. Edited by Thor A. Bak. *W. A. Benjamin, Inc., New York-Amsterdam,* 1964. xiv + 640 *pp.* (From the introduction) 32 #8942

belian groups
* Studies on Abelian groups. Edited by B. Charles. Symposium on the Theory of Abelian Groups, held at Montpellier University in June 1967. *Springer-Verlag, Berlin-New York; Dunod, Paris,* 1968. v + 356 *pp.* (Editors) 39 #1546

bhandlungen aus Zahlentheorie und Analysis
* Abhandlungen aus Zahlentheorie und Analysis. Zur Erinnerung an Edmund Landau (1877-1938). Herausgegeben von Paul Turán. *VEB Deutscher Verlag der Wissenschaften, Berlin; Plenum Press, New York,* 1968. 355 *pp.* (Editors) 41 #3200a

bstract algebra
* Computational problems in abstract algebra. Proceedings of a Conference held at Oxford under the auspices of the Science Research Council, Atlas Computer Laboratory, 29th August to 2nd September 1967. Edited by John Leech. With a foreword by J. Howlett. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1970. x + 402 *pp.* (Editors) 40 #5374

bstract spaces and approximation
* Abstract spaces and approximation. Proceedings of the Conference held at the Mathematical Research Institute at Oberwolfach, Black Forest, July 18-27, 1968. Edited by P. L. Butzer and B. Szőkefalvi-Nagy. International Series of Numerical Mathematics (ISNM), Vol. 10. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 423 *pp.* (1 *plate*) (Editors) 41 #4102

bstracts of the Conference on the History of Science in the Baltic States
* Материалы VIII конференции по истории науки в Прибалтике. (Russian) [Abstracts of the Eighth Conference on the History of Science in the Baltic States] Academy of Sciences of the Estonian SSR. Estonian Branch of the Soviet National Union for History and Philosophy of Natural Science and Technology. *Akad. Nauk Èston. SSR, Tartu,* 1970. 181 *pp.* (Editors) 41 #8189

bstracts of papers of the All-Union Interuniversity Conference on Geometry
* Тезисы докладов 4-ой всесоюзной мешвузовской конференции по геометрии (Тбилиси, 1969 г.). (Russian) [Abstracts of papers of the Fourth All-Union Interuniversity Conference on Geometry (Tbilisi, 1969)] *Izdat. Tbilis. Univ., Tbilisi,* 1969. 295 *pp.* (Editors) 43 #1054

bstracts of papers of the Institute's Eighth Periodic Scientific Conference
* Тези доповīдей VIII-оī звīтноi науковоī конференцīī Īнституту (20-22 червня 1966 р.) Секцīя фīзико-математичних наук. (Ukrainian) Abstracts of papers of the Institute's Eighth Periodic Scientific Conference (June 20-22, 1966). Physical-mathematical sciences section. Drogobych State Pedagogical Institute. *Drogobic. Derž. Ped. Inst., Drogobych,* 1966. 150 *pp.* (Editors) 36 #3613

bstracts of papers of the scientific conference
* Тезисы докладов XXII научной сессии: Секция физических и математических наук (Май). (Russian) [Abstracts of papers of the XXII scientific conference: Physical and mathematical sciences section (May)]. *Černovic. Gos. Univ., Černovcy,* 1966. 180 pp. (Editors) 36 #3612

bstracts of papers at the Transcaucasian Conference of Historians of Science, dedicated to the 100th Birthday Anniversary of V. I. Lenin
* Тезисы докладов третьей закавказской конференции историков наук, посвященной 100-летию со дня рождения В. И. Ленина (20-23 ноября 1969 г.). (Russian) [Abstracts of papers at the Third Transcaucasian Conference of Historians of Science, dedicated to the 100th Birthday Anniversary of V. I. Lenin (November 20-23, 1969)] *Akad. Nauk Gruzin. SSR, Tbilisi,* 1969. 315 *pp. (errata insert)* (Editors) 41 #5

bstracts of reports
* Звīтно-наукова конференцiя кафедр Īнституту. Тези доповīдей. Фīзико-математичнī науки. (Ukrainian) [Scientific Conference of the Departments of the Institute. Abstracts of reports. Physical-mathematical Sciences] *Kiïv. Deržav. Ped. Inst., Kiev,* 1967. 79 *pp.* (Editors) 39 #2557

bstracts of Reports at the Conference of Researchers of Mathematical Departments of Pedagogical Institutes of the Ural Region
* Материалы XXIV конференции работников математических кафедр педагогических институтов Уральской зоны (31 января - 4 февраля 1966 г.). (Russian) [Abstracts of Reports at the 24th Conference of Researchers of Mathematical Departments of Pedagogical Institutes of the Ural Region (January 31- February 4, 1966)] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk,* 1967. 99 *pp.* (Editors) 39 #2553

Abstracts of Reports of the First Scientific Conference of Young Scientists of the Academy of Sciences of the Kazakh SSR
* Материалы первой научной конференции молодых ученых Академии Наук Казахской ССР. (Russian) [Abstracts of Reports of the First Scientific Conference of Young Scientists of the Academy of Sciences of the Kazakh SSR] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 528 *pp.* (Editors) 40 #1230

Abstracts of the Republican Symposium on Differential Equations
* Материалы республиканского симпозиума по дифференциальным уравнениям (Одесса, 1968 г). (Russian) [Abstracts of the Republican Symposium on Differential Equations (Odessa, 1968)] *Odesskiĭ Gosudarstv. Univ., Odessa,* 1968. 236 *pp.* (Editors) 40 #7054

Abstracts of the Scientific Student Conference
* Материалы двадцать второй научной студенческой конференции. V: Химия, физика, математика. (Russian) [Abstracts of the Twenty-Second Scientific Student Conference. V: Chemistry, physics, mathematics] *Tartu Gosudarstv. Univ., Tartu,* 1967. 49 *pp.* (Editors) 40 #5368

Académie des Sciences
* Académie des Sciences: Troisième Centenaire (1666-1966). Tomes 1, 2. *Gauthier-Villars Éditeur, Paris,* 1967. *Vol. I:* xiv + 495 *pp.; Vol. II:* iii + 481 *pp.* (Editors) 37 #3887

Acta Electronica Sinica
* Electronics in Mainland China. 1965, Part III. Translated from the Chinese by Scripta Electronica. *Institute of Electrical and Electronics Engineers, New York,* 1969. (Editors) 43 #4

Acta Fac. Rerum Natur. Univ. Comenian. Math.
* Differential equations and their applications. Equadiff II. Proceedings of the Conference held in Bratislava in September, 1966. Published in the Journal Acta Facultatis Rerum Naturalium Universitatis Comenianae Mathematica. Publ. XVII. *Slovenské Pedagogické Nakladatel'stvo, Bratislava,* 1967. 322 *pp.* (Editors) 40 #2938

Acta Historica Leopoldina
* Medicina mentis sive artis inveniendi praecepta generalia. Editio nova (Lipsiae 1695). Erstmalig vollständig ins Deutsche übersetzt und kommentiert von Johannes Haussleiter. Mit mathematikgeschichtlichen Zusätzen von Herbert Oettel und einer biographischen Einführung sowie mehreren Anhängen von Rudolph Zaunick. Acta Historica Leopoldina. Abhandlungen aus dem Archiv für Geschichte der Naturforschung und Medizin der Deutschen Akademie der Naturforscher Leopoldina. No. 1. *Johann Ambrosius Barth Verlag, Leipzig,* 1963. 409 *pp.* *(24 plates)* (C. J. Scriba) 33 #3867

Acta Phys. Acad. Sci. Hungar.
* Quantum theory of systems with many degrees of freedom. Symposium held at Keszthely, September, 1964. Edited by P. Gombás. Acta Phys. Acad. Sci. Hungar., Vol. 19. *Akadémiai Kiadó, Budapest,* 1965. 363 *pp.* (Editors) 34 #5404

Acta Phys. Austriaca
* Elementary particale theories. Proceedings of the V. Internationale Universitätswochen für Kernphysik 1966 der Karl-Franzens-Universität Graz. at Schladming (Steiermark, Austria) 24th February-9th March 1966. Edited by Paul Urban. Acta Phys. Austriaca, Suppl. III. *Springer-Verlag New York, Inc., New York,* 1966. iv + 463 *pp.* (Table of contents) 34 #3888
* Particle physics. Proceedings of the VIII Internationale Universitätswochen für Kernphysik 1969 der Karl-Franzens-Universität Graz, at Schladming (Steiermark), 24th February-8th March 1969. Edited by Paul Urban. Acta Physica Austriaca, Suppl. VI. *Springer-Verlag, Vienna-New York,* 1969. x + 550 *pp.* *(loose errata)* (Table of contents) 42 #2737

Actas de la Reunión de Matemáticos Españoles. See Annual Reunion of Spanish Mathematicians.

Actes Colloq.
* Le raisonnement juridiques et la logique déontique (Actes colloq., Bruxelles, 22-23 décembre 1969). Logique et Analyse (N.S.) 13 (1970), no. 49-50. *Éditions Nauwelaerts, Louvain-Paris,* 1970. 271 *pp.* (Table of contents) 42 #1648

Actes du Colloque International
* Archéologie et calculateures. Problèmes sémiologiques et mathématiques. Actes du Colloque International, Marseille, 7-12 avril 1969. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1970. 371 *pp.* (1 *foldout*) (Editors) 42 #4052
* La magnétohydrodynamiques classique et relativiste. Actes du Colloque International organisé à Lille, du 16 au 20 juin 1969. Colloques Internationaux du Centr National de la Recherche Scientifique, No. 184. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1970. 312 *pp.* (Editors) 43 #4341

Actes Colloque International sur la Décision
* La décision, 2: Agrégation et dynamique des ordres de préférence. Actes du Colloque International à Aix-en-Provence, du 3 au 7 juillet 1967. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 171. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1969. xii + 336 *pp.* (Editors) 40 #8438

Actes du Colloque International sur les Systèmes à un Nombre Infini de Degrés de Liberté
* Systèmes à un nombre infini de degrés de liberté. Actes du Colloque International, Gif-sur-Yvette, 7-10 mai 1969. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 181. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1970. 200 *pp.* (Editors) 44 #1277

Actes du Colloque de Mathématiques Réuni à Clermont à l'Occasion du Tricentenaire de la Mort de Blaise Pascal
* Actes du Colloque de Mathématiques Réuni à l'Occasion du Tricentenaire de la Mort de Blaise Pascal. Tome I: Introduction et logique mathématique (4-8 juin 1962). Annales de la Faculté des Sciences de l'Université de Clermont, No. 7. *Faculté des Sciences, Université de Clermont, Clermont-Ferrand,* 1962. 123 *pp.* (Editors) 43 #4593a
* Actes du Colloque de Mathématiques Réuni à Clermont à l'Occasion du Tricentenaire de la Mort de Blaise Pascal. Tome II: Calcul des probabilités, analyse numérique et calcul automatique, géométrie et physique mathématique (4-8 juin 1962). Annales de la Faculté des Sciences de l'Université de Clermont, No. 8. *Faculté des Sciences, Université de Clermont, Clermont-Ferrand,* 1962. 189 *pp.* (Editors) 43 #4593b

Actes du Congrès International d'Histoire des Sciences
* Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Toruń-Kielce-Cracovie, 24-31 août 1965). Section III: Histoire des sciences exactes (astronomie, mathématiques, physique). *Ossolineum [Maison d'Édition de l'Académie Polonaise des Sciences], Wrocław,* 1968. 448 *pp.* (Editors) 41 #6
* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome I A: Colloques: Textes des rapports. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 431 *pp.* (Editors) 42 #5757a

* Actes du XII^{e} Congrès International d' Histoire des Sciences (Paris, 25-30 août 1968). Tome II: Problèmes Généraux d'Histoire des Sciences, Épistémologie. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 119 *pp.* (Editors) 42 #5757b

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III A: Science et Philosophie: Antiquité, Moyen Âge, Renaissance. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 151 *pp.* (Editors) 42 #5757c

* Actes du XII^{e} Congres International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III B: Science et Philosophie: XVII^{e} et XVIII^{e} siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 181 *pp.* (Editors) 42 #5757d

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août, 1968). Tome IV: Histoire des mathématique et de la mécanique. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 184 *pp.* (Editors) 43 #3068a

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août, 1968). Tome V: Histoire de la Physique—y compris l'astronomie—XIX^{e} et XX^{e} siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 126 *pp.* (Editors) 43 #3068b

Actes de la réunion de Neuchâtel
* *H*-spaces. Acted de la réunion de Neuchâtel (Suisse), août 1970. Publiés par François Sigrist. Textes rédigés en anglais. Lecture Notes in Mathematics, Vol. 196. *Springer-Verlag, Berlin-New York,* 1971. iv + 156 *pp.* (Editors) 44 #4748

Actes de la Société helvétique des sciences naturelles
* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (146. Versammlung in Solothurn, 1966): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zürich,* 1966. 307 *pp.* (Editors) 37 #2560
* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (147. Versammlung in Schaffhausen, 1967). *Kommissionsverlag Berichthaus, Zürich,* 1967. 205 *pp.* (Editors) 43 #7283
* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (149. Versammlung in St. Gallen, 1969): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zürich,* 1969. 303 *pp.* (Editors) 42 #5744

Actes du Symposium International R. J. Bošković
* Actes du Symposium International R. J. Bošković 1961. Conseil des Académies RFPY; Académie Serbe des Sciences et des Arts; Académie Yougoslave des Sciences et des Arts; Académie Slovène des Sceinces et des Arts; Association des Universités RFPY; Union des Sociétés des Mathématiciens, Physiciens et Astronomes RFPY; Association Yougoslave pour la Philosophie, Livre 2. *Belgrade,* 1962. 300 *pp.* (Editors) 31 #21

Adaptive, learning and pattern recognition systems
* Adaptive, learning and pattern recognition systems. Theory and applications. Edited by J. M. Mendel and K. S. Fu. Mathema in Science and Engineering, Vol. 66. *Academic Press, New York-London,* 1970. xiv + 444 *pp.* (Editors) 40 #8522

Advanced plasma theory
* Advanced plasma theory. Proceedings of the International School of Physics "Enrico Fermi", Course XXV, Varenna on Lake Como, Villa Monastero, July 9-July 21, 1962. Edited by M. N. Rosenbluth. *Academic Press, New York-London,* 1964. xii + 266 *p* *(1 plate)* (Editors) 30 #910

Advanced Study Institute on Algebraic Topology
* Proceedings of the Advanced Study Institute on Algebraic Topology. Vol. II (August 10-23, 1970). *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. vi + *pp.* 240-475. (Editors) 42 #6807

Advances in applied mechanics
* Advances in applied mechanics. Vol. 8. Edited by H. L. Dryden and Th. von Kármán. *Academic Press, New York-London,* 1964. x + 298 *pp.* (Editors) 29 #3028
* Advances in applied mechanics. Vol. 9. Edited by G. G. Chernyi, H. L. Dryden, P. Germain, L. Howarth, W. Olszak, W. Prager, R. F. Probstein and H. Ziegler. Managing editor, G. Kuerti. *Academic Press, New York-London,* 1966. x + 387 *pp.* (Editors) 34 #8677

Advances in atomic and molecular physics
* Advances in atomic and molecular physics. Vol. 1. Edited D. R. Bates and Immanuel Estermann. *Academic Press, New York-London,* 1965. x + 408 *pp.* (Editors) 31 #3120

Advances in chemical physics
* Advances in Chemical Physics, Vol. IV. Edited by I. Prigogi *Interscience Publishers [John Wiley & Sons, Inc.] New York-London* 1962. ix + 400 *pp.* (Editors) 31 #4357

Advances in computers
* Advances in Computer, Vol. 4. Edited by Franz L. Alt and Morris Rubinoff; associate editors A. D. Booth and R. E. Meagher *Academic Press, New York-London,* 1963. xii + 321 *pp.* (B. A. Galler) 31 #903
* Advances in Computers. Vol. 5. Edited by Franz L. Alt and Morris Rubinoff. *Academic Press, New York-London,* 1964. xiii + 397 *pp.* (B. A. Galler) 31 #904
* Advances in Computers. Vol. 6. Edited by Franz L. Alt and Morris Rubinoff. Associate editors, A. D. Booth and R. E. Meaghe *Academic Press, New York-London,* 1965. xiv + 310 *pp.* (John F. Riordan) 33 #6871
* Advances in Computer. Vol. 7. Edited by Franz L. Alt and Morris Rubinoff. *Academic Press, New York-London,* 1966. xiii + 303 *pp.* (Editors) 34 #3824
* Advances in Computers. Vol. 8. Edited by Franz L. Alt and Morris Rubinoff. *Academic Press, New York-London,* 1967. xii + 345 *pp.* (Editors) 35 #3939

Advances in control systems
* Advances in control systems: Theory and applications. Vol. Edited by C. T. Leondes. *Acdemic Press, New York-London,* 1964. x + 365 *pp.* (Editors) 30 #5853
* Advances in control systems: Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1965. x + 313 *pp.* (Editors) 34 #7227
* Advances in control systems: Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1966. x + 346 *pp.* (Editors) 34 #7228
* Advances in control systems: Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1966. xiv + 320 *pp.* (Editors) 34 #7229
* Advances in control systems: Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1967. xii + 426 *pp.* (Editors) 36 #1214
* Advances in control systems. Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1968. xiii + 321 *pp.* (Editors) 42 #1544
* Advances in control systems. Theory and applications. Vol. Edited by C. T. Leondes. *Academic Press, New York-London,* 1969. xiii + 314 *pp.* (Editors) 42 #2825

Advances in information systems science
* Advances in information systems science. Vol. I. Edited by Julius T. Tou. *Plenum Press, New York,* 1969. xv + 303 *pp.* (Editors) 39 #2501

Advances in mathematical systems theory
* Advances in mathematical systems theory. Edited by Preston C. Hammer. *The Pennsylvania State University Press, University Park, Pa.-London,* 1969. iii + 174 *pp.* *(4 plates)* (Editors) 40 #3919

Advances in probability and related topics
* Advances in probability and related topics. Vol. 1. Edited by Peter Ney. *Marcel Dekker, Inc., New York,* 1971. xii + 215 *pp.* (Editors) 43 #6977a

* Advances in probability and related topics. Vol. 2. Edited by Peter Ney. *Marcel Dekker, Inc., New York*, 1970. ix + 248 *pp.* (Editors) 43 #6977b

ivances in programming and non-numerical computation

* Advances in programming and non-numerical computation. Edited by L. Fox. *Pergamon Press, Oxford-New York-Paris*, 1966. viii + 218 *pp.* (Editors) 32 #8540

ivances in theoretical physics

* Advances in theoretical physics. Vol. 1. Edited by Keith A. Brueckner. *Academic Press, New York-London*, 1965. x + 323 *pp.* (Editors) 31 #2981

ivances in the theory of Riemann surfaces

* Advances in the theory of Riemann surfaces. Proceedings of the 1969 Stony Brook Conference. Edited by Lars V. Ahlfors, Lipman Bers, Hershel M. Farkas, Robert C. Gunning, Irwin Kra and Harry E. Rauch. Annals of Mathematics Studies, No. 66. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo*, 1971. viii + 420 *pp.* (Editors) 43 #5023

rodynamics in rarefied gases

* Аэродинамика разреженных газов. Сборник II. (Russian) [Aerodynamics of rarefied gases. Collection II] Edited by S. V. Vallander. *Izdat. Leningrad. Univ., Leningrad*, 1965. 283 *pp.* (Editors) 33 #1105

ARD aeronautical multilingual dictionary

* First supplement to AGARD aeronautical multilingual dictionary. Edited by A. H. Holloway. Publish for and on behalf of Advisory Group for Aeronautical Research and Development North Atlantic Treaty Organization. *The Macmillan Co., New York*, 1963. ix + 334 *pp.* (Editors) 31 #4

ten des Internationalen Leibniz-Kongresses

* Studia Leibnitiana. Supplementa. Vol. II: Akten des Internationalen Leibniz-Kongresses (Hannover, 14-19 November, 1966). Band II: Mathematik-Naturwissenschaften. *Franz Steiner Verlag GMBH, Wiesbaden*, 1969. vi + 287 *pp. (1 plate)* (Editors) 39 #3951

* Studia Leibnitiana. Supplementa. Vol. III: Akten des Internationalen Leibniz-Kongresses (Hannover, 14-19 November, 1966). Band III: Erkenntnislehre• Logik• Sprachphilosophie. Editionsberichte. *Franz Steiner Verlag GMBH, Wiesbaden*, 1969. iv + 242 *pp.* (H. Wußing) 41 #8198

cune questioni di analisi numerica

* Alcune questioni di analisi numerica. Centro Internazionale Matematico Estivo (C.I.M.E.). IV Ciclo, Perugia, 7-16 settembre, 1964, diretto dal Aldo Ghizzetti. *Edizioni Cremonese, Rome*, 1965. 419 *pp.* (Editors) 36 #7290

gebra

* Translations, Ser. 1, Vol. 1: Algebra. *American Mathematical Society, Providence, R. I.*, 1962. iii + 480 *pp.* (Editors) 38 #1978

* Исследования по алгебре и математическому анализу. (Russian) [Studies in algebra and mathematical analysis] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Izdat. "Karta Moldovenjaske", Kishinev*, 1965. 159 *pp.* (Editors) 33 #7221

* Алгебра 1964. (Russian) [Algebra 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow*, 1966. 277 *pp. (errata insert)* (Editors) 35 #1422

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20e année: 1966/67. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 10. *Secrêtariat mathématique, Paris*, 1968. iii + 150 *pp. (not consecutively paged)* (Editors) 37 #6139a

* Séminaire P. Dubreil. M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20e année: 1966/67. Algèbre et théorie des nombres. Fascicule 2: Exposés 11 à 21 et index cumulatif. *Secrêtariat mathématique, Paris*, 1968. iii + 178 + iii *pp. (not consecutively paged)* (Editors) 37 #6139b

* Séminaire P. Dubreil. M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 21e année: 1967/68. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 9; Fascicule 2: Exposés 10 à 20. *Secrêtariat mathématique, Paris*, 1969. *Fasc.* 1: ii + 134 *pp.*; *Fasc.* 2: ii + 119 *pp. (not consecutively paged)* (Editors) 39 #5286

* Исследования по алгебре. (Russian) [Studies in algebra] *Izdat. Saratov. Univ., Sartov*, 1969. 61 *pp.* (Editors) 40 #4038

* Progress in mathematics. Vol. 5: Algebra. Edited by R. V. Gamkrelidze. Translated form the Russian by N. H. Choksy. *Plenum Press, New York-London*, 1969. viii + 214 *pp.* (Editors) 39 #6701

* Труды рижского алгебраического семинара. (Russian) [Proceedings of the Riga Seminar on Algebra] *Latv. Gosudarstv. Univ., Riga*, 1969. 310 *pp.* (Editors) 40 #4046

* American Mathematical Society Translations. Series 2, Vol. 84: Twelve papers on algebra, algebraic geomety and topology. *American Mathematical Society, Providence, R. I.*, 1969. iv + 275 *pp.* (Editors) 40 #5370

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 22e année: 1968/69. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12; Fasc. 2: Exposés 13 à 21. *Secrêtariat mathématique, Paris*, 1970. *Fasc.* 1: ii + 90 *pp. (not consecutively paged); Fasc.* 2: ii + 97 + iii *pp. (not consecutively paged)* (Editors) 43 #4599

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 23e année: 1969/70. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12 [1969/70, Paris]; Fasc. 2: Demi-groupes: Exposés DG1 à DG16 [1970, Nice]. *Secrêtariat mathématique, Paris*, 1970. *Fasc.* 1: ii + 143 *pp. (not consecutively paged); Fasc.* 2: ii + 70 + iii *pp. (not consecutively paged)* (Editors) 43 #4598

Algebra and geometry

* Progress in mathematics, Vol. 9: Algebra and geometry. Edited by R. V. Gamkrelidze. Translated from the Russian by Nasli H. Choksy. *Plenum Press, New York-London*, 1971. ix + 253 *pp.* (Editors) 43 #1786

Algebra and mathematical logic

* Алгебра е математическая логика. Алгебраические исследования. (Russian) [Algebra and mathematical logic: Studies in algebra] *Izdat. Kiev. Univ., Kiev*, 1966. 140 *pp.* (Editors) 34 #4079

Algebra. Topology. Geometry

* Алгебра. Топология. Геометрия. 1965. (Russian) [Algebra. Topology. Geometry, 1965] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow*, 1967. 468 *pp. (errata insert)* (Editors) 35 #6499

* Алгебра. Топология. Геометрия. 1966. (Russian) [Algebra. Topology. Geometry. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow*, 1968. 268 *pp.* (Editors) 38 #1970

* Алгебра. Топология. Геометрия. 1967. (Russian) [Algebra. Topology. Geometry. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. Tehn. Informacii, Moscow*, 1969. 228 *pp.* (Editors) 41 #1460

* Алгебра. Топология. Геометрия. 1968. (Russian) [Algebra. Topology. Geometry. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow*, 1970. 224 *pp. (errata insert)* (Editors) 41 #3201

* Алгебра. Топология. Геометрия. 1969. (Russian) [Algebra. Topology. Geometry. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow*, 1971. 168 *pp. (errata insert)* (Editors) 43 #1783

Algebraic colloquium

* XI всесоюзный алгебраический коллоквиум. Ресюме сообщений и докладов. (Russian) [Eleventh All-Union Algebraic Colloquium. Abstracts of reports and papers.] *Redakcionno-Izdat. Otdel. Akad. Nauk Moldav. SSR, Kishinev*, 1971. 354 *pp.* (Editors) 43 #4594

Algebraic geometry

* Atti del Convegno Internazionale di Geometria Algebrica. Tenuto a Torino nei giorni 24-27 maggio 1961. *Tipi L. Rattero, Turin*, 1962. 215 *pp.* (Editors) 31 #1249

* Actas del Colóquio Internaċional sobre Geometría Algebraica (Madrid, 9-15 Septiembre 1965). (Spanish) [Proceedings of the International Colloquium on Algebraic Geometry] *Instituto Jorge Juan del C. S. I. C. y la International Mathematical Union, Madrid*, 1966. 190 *pp.* (Editors) 33 #4054

* Simposio internazionale di geometria algebrica (Roma, 30 settembre-5 ottobre 1965). *Edizioni Cremonese, Rome*, 1967. lxvi + 286 *pp. (1 plate)* (Editors) 35 #5441

* Algebraic geometry. Papers presented at the Bombay Colloquium, 1968. Tata Institute of Fundamential Research Studies in Mathematics, No. 4. *Published for the Tata Institute of Fundamental Research, Bombay; Oxford University Press, London*, 1969. viii + 426 *pp.* (Editors) 40 #5611

Algebraic groups

* Proceedings of Symposia in Pure Mathematics. Vol. IX: Algebraic groups and discontinuous subgroups. Held at the University of Colorado, Boulder, Colo., July 5-August 6, 1965. Edited by Armand Borel and George D. Mostow. *American Mathematical Society, Providence, R. I.*, 1966. vii + 426 *pp.* (Editors) 34 #2381

* Seminar on Algebraic Groups and Related Finite Groups. (Held at The Institute for Advanced Study, Princeton, N. J., 1968/69). Lecture Notes in Mathematics, Vol. 131. *Springer-Verlag, Berlin-New York*, 1970. viii + 321 *pp.* (Editors) 41 #3486

Algebraic *K*-theory and its geometric applications

* Algebraic *K*-theory and its geometric applications. Edited by R. M. F. Moss and C. B. Thomas. Lecture Notes in Mathematics, No. 108. *Springer-Verlag, Berlin-New York*, 1969. iv + 86 *pp.* (Editors) 40 #1450

Algebraic number theory

* Algebraic number theory. Proceedings of an instructional conference organized by the London Mathematical Society (a NATO Advanced Study Institute) with the support of the Internatioanl Mathematical Union. Edited by J. W. S. Cassels and A. Fröhlich. *Academic Press, London; Thompson Book Co., Inc., Washington, D. C.*, 1967. xviii + 366 *pp.* (Editors) 35 #6500

* Алгебраическая теория чисел (Russian) [Algebraic number theory] Edited by J. W. S. Cassels and A. Fröhlich. Translated from the English by A. A. Bel'skiĭ, A. Ju. Geronimus, M. E. Novodvorskiĭ and V. M. Fišman. Edited by I. I. Pjateckiĭ-Šapiro. *Izdat. "Mir", Moscow,* 1969. 483 *pp.* (Editors) 41 #174

Algebraic number theory and representations

* Proceedings of the Steklov Institute of Mathematics. No. 80 (1965): Algebraic number theory and representations. Edited by D. K. Faddeev. Translated form the Russian by T. S. Bhanu Murthy. *American Mathematical Society, Providence, R. I.,* 1968. iv + 215 *pp.* (Editors) 37 #9

Algebraic surfaces

* Algebraic surfaces. By the members of the seminar of I. R. Šafarevič. Translated from the Russian by Susan Walker. Translation edited, with supplementary material, by K. Kodaira and D. C. Spencer. Proceedings of the Steklov Institute of Mathematics, No. 75 (1965). *American Mathematical Society, Providence, R. I.,* 1967. ix + 281 *pp.* (Editors) 35 #6685

Algebraic theory of machines, languages, and semigroups

* Algebraic theory of machines, languages, and semigroups. Edited by Michael A. Arbib. With a major contribution by Kenneth Krohn and John L. Rhodes. *Academic Press, New York-London,* 1968. xvi + 359 *pp.* (G. J. Lallement) 38 #1198

Algebraic topology

* Translations, Ser. 1, Vol. 7: Algebraic topology. *American Mathematical Society, Providence, R. I.,* 1962. ii + 557 *pp.* (Editors) 38 #1982

* Conference on algebraic topology. The University of Illinois at Chicago Circle, June 17-June 28, 1968. *Univ. of Illinois at Chicago Circle, Chicago, Ill.,* 1969. iv + 293 *pp.* *(loose 5 pp. insert)* (Editors) 40 #2050

* American Mathematical Society Translations. Series 2, Vol. 84: Twelve papers on algebra, algebraic geometry and topology. *American Mathematical Society, Providence, R. I.,* 1969. iv + 275 *pp.* (Editors) 40 #5370

* Proceedings of the Advanced Study Institute on Algebraic Topology. Vol. II (August 10-23, 1970). *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. vi + *pp.* 240-475. (Editors) 42 #6807

Algebraic varieties

* Questions on algebraic varieties. Centro Internazionale Matematico Estivo (C.I.M.E.) III Ciclo, Varenna, 7-17 Settembre 1969. Coordinatore: E. Marchionna. *Edizioni Cremonese, Rome,* 1970. ii + 343 *pp.* (Editors) 42 #5988

Algebraische Zahlentheorie

* Algebraische Zahlentheorie. Bericht einer Tagung des Mathematischen Forschungsinstituts Oberwolfach, 6.-12. September 1964. Herausgegeben von Helmut Hasse und Peter Roquette. Berichte aus dem Mathematischen Forschungsinstitut Oberwolfach, Heft 2. *Bibliographisches Institut Mannheim, Mannheim,* 1966. 272 *pp.* (Editors) 36 #99

Algèbre et combinatoire

* Cahiers Mathématiques. III: Morceaux choisis d'algèbre et de combinatoire pour les sciences humaines. Mathématiques et Sciences de l'Homme, XIII. *Éditions Gauthier-Villars; Éditions Mouton, Paris,* 1970. vi + 106 *pp.* (Editors) 42 #1624

Algèbre commutative

* Anneaux de Gorenstein, et torsion en algèbre commutative. Séminaire d'Algèbre Commutative dirigé par Pierre Samuel, 1966/67. Texte rédigé, d'après des exposés de Maurice Auslander, Marguerite Mangeney, Christian Peskine et Lucien Szpiro. École Normale Supérieure de Jeunes Filles. *Secrétariat mathématique, Paris,* 1967. 69 *pp.* (J. L. Fisher) 37 #1435

Algorismus, Mohammed Ibn Musa Alchwarizmi

* Mohammed Ibn Musa Alchwarizmi's Algorismus. Das früheste Lehrbuch zum Rechnen mit indischen Ziffern. Nach der einzigen (lateinischen) Handschrift (Cambridge Un. Lib. Ms. Ii. 6.5) in Faksimile mit Transkription und Kommentar herausgegeben von Kurt Vogel. Milliaria, Faksimiledrucke zur Dokumentation der Geistesentwicklung, III. *Otto Zeller Verlagsbuchhandlung, Aalen,* 1963. 51 *pp.* (D. Pingree) 30 #5

Algorithmic language ALGOL-60

* Алгоритмический язык АЛГОЛ-60. Перисмотренное сообщение. (Russian) [Algorithmic language ALGOL-60. Revised report] Edited by Peter Naur. Russian translation edited by A. P. Eršov, S. S. Lavrov and M. P. Šura-Bura. *Izdat. "Mir", Moscow,* 1965. 79 *pp.* (Editors) 32 #8539

Algorithmic languages

* Symposium on semantics of algorithmic languages. Edited by E. Engeler. Lecture Notes in Mathematics, Vol. 188. *Springer-Verlag, Berlin-New York,* 1971. vi + 372 *pp.* (Editors) 43 #1477

Algorithmization of industrial processes

* Алгоритмизацея производственных процессов (Труды семинара, Киев, 1968г.). Вып. 1. (Russian) [Algorithmization of industrial processes (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of th Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 126 *pp.* (Editors) 39 #6616

* Алгоритмизация производственных процессов (Труды семинара, Киев, 1968г.). Вып. 2. (Russian) [Algorithmization of industria processes (Proceedings of a Seminar, Kiev, 1968). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrain SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 105 *pp.* (Editors) 39 #6617

Allerton Conference on Circuit and System Theory

} * Proceedings Fifth Annual Allerton Conference on Circuit and System Theory. Edited by J. B. Cruz, Jr. and T. N. Trick. Conference held October 4, 5, 6, 1967, Allerton House, Monticello Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill. and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1967. xii + 814 *pp.* (Edito 41 #8052

* Proceedings Sixth Annual Allerton Conference on Circuit and System Theory. Edited by T. N. Trick and R. T. Chien. Conferenc held October 2, 3, 4, 1968, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *Universi of Illinois, Urbana, Ill.,* 1968. xiii + 902 *pp.* (Editors) 41 #8053

* Proceedings Seventh Annual Allerton Conference on Circuit an System Theory. Edited by A. H. Haddad, G. Metze and T. N. Trick. Conference held October 8-10, 1969, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and t Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *Universi of Illinois, Urbana, Ill.,* 1969. xiv + 919 *pp.* (Editors) 41 #8054

All-Union Algebraic Colloquium. Abstracts of reports and papers

* XI всесоюзный алгебраический коллоквиум. Ресюме сообщений и докладов. (Russian) [Eleventh All-Union Algebraic Colloquium. Abstracts of reports and papers.] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1971. 354 *pp.* (Editors) 43 #4594

All-Union Conference

* Теория инвариантности в системах автоматического управления. (Russian) [Theory of invariance in automatic control systems] Proceedings of the Second All-Union Conference held in Kiev, 29 May 1962-1 June 1962. *Izdat. "Nauka", Moscow,* 1964. 504 *pp.* (Editors) 31 #3255

* Аналоговые методы и средства решения краевых задач. Труды всесоюзного совещания, Москва, Октябрь 1962г. (Russian) [Analog methods and facilities for the solution of boundary problems. (Transactions of the All-Union Conference, Moscow, October, 1962. *Naukova Dumka, Kiev,* 1964. 355 *pp.* (Editors) 31 #5364

* Кинематика и динамика звездных систем и физика межзвездной среды. Материалы всесоюзного совщания, состоявшегося в Алма-Ате 10-16 Октября 1963 года. (Russian) [Kinematics and Dynamics of Stellar Systems and the Physics of the Intersteller Medium. (Proceedings of the All-Union Conference held in Alma-Ata, October 10-16, 1963)] *Izdat. "Nauka", Alma-Ata,* 1965. 307 *pp.* (Editors) 31 #3210

All-Union Conference on Mathematical Questions of Network Planning and Control

* И всесоюзная конференция по математическим вопросам сетевого планирования и управления (Киев, апрель 1966г.): Тезисы и доклады. (Russian) [First All-Union Conference on Mathematical Questions of Network Planning and Control (Kiev, April, 1966): Abstracts and reports] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 249 *pp.* (Editors) 44 #6412

All-Union Conference on the Problems of Theoretical Cybernetics

* Всесоюзная конференция по проблемам теоретийеской кибернетик (9-13 июня 1969г.). Тезисы докладов. (Russian) [All-Union Conference on the Problems of Theoretical Cybernetics (June 9-13, 1969). Abstracts of papers.] *Inst. Mat. Sibirsk, Otdel. Akad. Nauk SSSR, Novosibirsk,* 1969. 118 *pp.* (Editors) 40 #5369

All-Union Congress on Theoretical and Applied Mechanics

* Третий всесоюзный съезд по теоретической и прикладной механике (Москва, 25 января-1 февраля 1968 года): Аннотации докладов. (Russian) [Third All-Union Congress on Theoretical and Applied Mechanics (Moscow, January 25-February 1, 1968): Abstract of papers] *Akad. Nauk SSSR, Moscow,* 1968. 336 *pp.* 36 #4857

All-Union Interuniversity Conference on Geometry

* Тезисы докладов 4-ой всесоюзной мешвузовской конференции по геометрии (Тбилиси, 1968г.). (Russian) [Abstracts of papers of the Fourth All-Union Interuniversity Conference on Geometry (Tbilisi, 1969)] *Izdat. Tbilis. Univ., Tbilisi*, 1969. 295 *pp.* (Editors) 43 #1054

All-Union scientific and technological symposium

* Применение математических методов и вычислительной техники в прогнозировании производственно-технического развития предприятий и отраслей народного хозяйствю (Тезисы Всесоюзного научно-технического симпозиума). (Russian) [Application of mathematical methods and computing technology to the prediction of industrial-technological development of the enterprises and branches of the national economy (Abstracts of an All-Union scientific and technological symposium)] *Moldav. Naučno-Issled. Inst. Naučno-Tehn. Informacii i Tehn.-Ėkonom. Issled., Kishinev*, 1970. 249 *pp.* (Editors) 42 #7237

All-Union Symposium on Geometry in the Large

* Третий всесоюзный симпозиум по геометрии в целом. (Russian) [Third All-Union Symposium on Geometry in the Large] *Karel. Gosudarstv. Ped. Inst., Petrozavodsk*, 1969. 79 *pp.* (Editors) 43 #3058

All-Union Symposium on the Theory of Groups

* Коуровская тетрадь. Нерешенные задачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups.] Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk*, 1965. 18 *pp.* (F. L. Hardy) 34 #4339

* II всесоюзный симпозиум по теории групп. (Russian) [Second All-Union Symposium on the Theory of Groups] Abstracts of reports and papers presented at a Symposium held in Batumi, 1966. *Izdat. "Mecniereba", Tbilisi*, 1967. 53 *pp.* (Editors) 42 #6084

All-Union Symposium on the Theory of Rings and Modules

* Первый всесоюзный симпосиум по теории колец и модувей (Нишинев, 1968). (Russian) [First All-Union Symposium on the Theory of Rings and Modules (Kishinev, 1968)] Abstracts of communications and papers. V. A. Steklov Institute of Mathematics of the Academy of Sciences of the USSR. Institute of Mathematics of the Siberian Branch of the Academy of Sciences of the USSR. Moscow State University. Institute of Mathematics with Computing Center of the Academy of Sciences of the Moldavian SSR. Kishinev State University. *Akad. Nauk Moldav. SSR, Kishinev*, 1968. 43 *pp.* (Editors) 39 #1481

* Днестровская тетрадь: Нерешенные задачи теории колец е модулей. (Russian) [The Dniester notebook: Unsolved problems in the theory of rings and modules] First All-Union Symposium on the Theory of Rings and Modules (Kishinev, 1968). *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev*, 1969. 20 *pp.* (Editors) 40 #7294

All-Union Symposium on the Theory of Semigroups

* Первый всесоюзный симпозиум по теории полугрупп: Резюме сообщений и докладов. (Russian) [First All-Union Symposium on the Theory of Semigroups: Abstracts of Reports and Papers] *Ural. Gosudarstv. Univ., Sverdlovsk*, 1969. 96 *pp.* (Editors) 40 #5754

* Свердловская тетрадь (Нерешенные задачи теории полугрупп). (Russian) [Sverdlovsk notebook (Unsolved problems of the theory of semigroups)] *Ural. Gosudarstv. Univ., Sverdlovsk*, 1969. 12 *pp.* (Editors) 42 #7807

All-Union Symposium on Wave Diffraction

* Третий Всесоюзный Симпозиум по Дифракции Волн (Тбилиси, 24-30 сентября 1964г.). (Russian) [Third All-Union Symposium on Wave Diffraction (Tbilisi, September 24-30, 1964)] Abstracts of papers. *Izdat. "Nauka", Moscow*, 1964. 245 *pp.* (Editors) 32 #755

All-Union Topological Conference

* Труды IV всесоюзной топологической конференции. (Russian) [Proceedings of the Fourth All-Union Topological Conference] Conference held in Tashkent, 1963. *Izdat. "Fan" Uzbek. SSR, Tashkent*, 1967. 207 *pp.* (Editors) 41 #986

American Mathematical Society Memoirs

* The metastable homotopy of S^n. Memoirs of the American Mathematical Society, No. 72. *American Mathematical Society, Providence, R. I.*, 1967. 81 *pp.* (Ronald Brown) 38 #5216

American Mathematical Society Symposia in Applied Mathematics. See Proceedings of Symposia in Applied Mathematics.

American Mathematical Society Symposia in Pure Mathematics. See Proceedings of Symposia in Pure Mathematics.

American Mathematical Society Translations

* Translations, Ser. 1, Vol. 1: Algebra. *American Mathematical Society, Providence, R. I.*, 1962. iii + 480 *pp.* (Editors) 38 #1978

* Translations, Ser. 1, Vol. 2: Number theory and analysis. *American Mathematical Society, Providence, R. I.*, 1962. iii + 539 *pp.* (Editors) 38 #4250

* Translations, Ser. 1, Vol. 3: Series and approximation. *American Mathematical Society, Providence, R. I.*, 1962. iii + 398 *pp.* (Editors) 38 #1979

* Translations, Ser. 1, Vol. 4: Differential equations. *American Mathematical Society, Providence, R. I.*, 1962. iii + 473 *pp.* (Editors) 38 #1980

* Translations, Ser. 1, Vol. 5: Stability and dynamics systems. *American Mathematical Society, Providence, R. I.*, 1962. iii + 517 *pp.* (Editors) 38 #1981

* Translations, Ser. 1, Vol. 6: Differential geometry and calculus of variations. *American Mathematical Society, Providence, R. I.*, 1962. ii + 511 *pp.* (Editors) 38 #4251

* Translations, Ser. 1, Vol. 7: Algebraic topology. *American Mathematical Society, Providence, R. I.*, 1962. ii + 557 *pp.* (Editors) 38 #1982

* Translations, Ser. 1, Vol. 8: Topology and topological algebra. *American Mathematical Society, Providence, R. I.*, 1962. ii + 462 *pp.* (Editors) 38 #1983

* Translations, Ser. 1, Vol. 9: Lie groups. *American Mathematical Society, Providence, R. I.*, 1962. iii + 541 *pp.* (Editors) 38 #1984

* Translations, Ser. 1, Vol. 10: Functional analysis and measure theory. *American Mathematical Society, Providence, R. I.*, 1962. iii + 548 *pp.* (Editors) 38 #1985

* Translations, Ser. 1, Vol. 11: Probability and physical problems. *American Mathematical Society, Providence, R. I.*, 1962. ii + 397 *pp.* (Editors) 38 #4252

* American Mathematical Society Translations. Series 2, Vol. 32: 17 papers on functions of comples variables. *American Mathematical Society, Providence, R. I.*, 1963. iv + 393 *pp.* (Editors) 29 #5700

* American Mathematical Society Translations. Series 2, Vol. 33: 9 papers on differential equations, 2 on information theory. *American Mathematical Society, Providence, R. I.*, 1963. iv + 438 *pp.* (Editors) 30 #2993

* American Mathematical Society Translations. Series 2, Vol. 34: 11 papers on analysis. *American Mathematical Society, Providence, R. I.*, 1963. iv + 412 *pp.* (Editors) 30 #2994

* American Mathematical Society Translations. Series 2, Vol. 35: 12 papers on analysis and applied mathematics. *American Mathematical Society, Providence, R. I.*, 1964. ii + 363 *pp.* (Editors) 29 #2141

* American Mathematical Society Translations. Series 2, Vol. 36: 14 papers on groups and semigroups. *American Mathematical Society, Providence, R. I.*, 1964. iv + 395 *pp.* (Editors) 29 #2142

* American Mathematical Society Translations. Series 2, Vol. 40: 9 papers on functional analysis and numerical analysis. *American Mathematical Society, Providence, R. I.*, 1964. iii + 290 *pp.* (Editors) 29 #2143

* American Mathematical Society Translations. Series 2, Vol. 41: 4 papers on partial differential equations. *American Mathematical Society, Providence, R. I.*, 1964. iii + 317 *pp.* (Editors) 29 #2144

* American Mathematical Society Translations. Series 2, Vol. 42: 15 papers on differential equations. *American Mathematical Society, Providence, R. I.*, 1964. iv + 288 *pp.* (Editors) 29 #4655

* American Mathematical Society Translations. Series 2, Vol. 43: Fifteen papers on series and functions of complex variables. *American Mathematical Society, Providence, R. I.*, 1964. iv + 320 *pp.* (Editors) 30 #1

* American Mathematical Society Translations. Series 2, Vol. 44: Twelve papers on approximations and integrals. *American Mathematical Society, Providence, R. I.*, 1965. iv + 268 *pp.* (Editors) 30 #2995

* American Mathematical Society Translations. Series 2, Vol. 46: Eleven papers on number theory, algebra and functions of a complex variable. *American Mathematical Society, Providence, R. I.*, 1965. iv + 284 *pp.* (Editors) 32 #1081

* American Mathematical Society Translations. Series 2, Vol. 47: Thirteen papers on functional analysis and partial differential equations. *American Mathematical Society, Providence, R. I.*, 1965. iv + 299 *pp.* (Editors) 32 #5471

* American Mathematical Society Translations. Series 2, Vol. 48: Fourteen papers on logic, algebra, complex variables and topology. *American Mathematical Society, Providence, R. I.*, 1965. iv + 396 *pp.* (Table of contents) 32 #7366

* American Mathematical Society Translations. Series 2, Vol. 49: Ten papers on functional analysis and measure theory. *American Mathematical Society, Providence, R. I.*, 1966. iv + 268 *pp.* (Editors) 32 #5472

* American Mathematical Society Translations. Series 2, Vol. 50: Fifteen papers on algebra. *American Mathematical Society, Providence, R. I.*, 1966. iv + 316 *pp.* (Table of contents) 32 #7367

* American Mathematical Society Translations. Series 2, Vol. 51: Eleven papers on differential equations, functional analysis and measure theory. *American Mathematical Society, Providence, R. I.*, 1966. iv + 332 *pp.* (Editors) 33 #1188; errtum, 39, p. 1592.

* American Mathematical Society Translations. Series 2, Vol. 52: Twelve papers on topology, algebra and number theory. *American Mathematical Society, Providence, R. I.*, 1966. iv + 275 *pp.* (Editors) 33 #5418

* American Mathematical Society Translations. Series 2, Vol. 53: Eleven papers on analysis. *American Mathematical Society, Providence, R. I.*, 1966. iv + 284 *pp.* (Editors) 33 #2496

* American Mathematical Society Translations. Series 2, Vol. 54: Fifteen papers on analysis. *American Mathematical Society, Providence, R. I.*, 1966. iv + 281 *pp.* (Editors) 34 #2382

* American Mathematical Society Translations. Series 2, Vol. 55: Eleven papers on topology and algebra. *American Mathemtical Society, Providence, R. I.*, 1966. iv + 304 *pp.* (Editors) 34 #1127

* American Mathematical Society Translations. Series 2, Vol. 56: Eight papers on differential equations and functional analysis. *American Mathematical Society, Providence, R. I.*, 1966. iii + 295 *pp.* (Editors) 34 #1128

* American Mathematical Society Translations. Series 2, Vol. 57: Nine papers on foundations, measure theory and analysis. *American Mathematical Society, Providence, R. I.*, 1966. iii + 304 *pp.* (Editors) 34 #2383

* American Mathematical Society Translations. Series 2, Vol. 58: Twelve papers on algebra, number theory and topology. *American Mathematical Society, Providence, R. I.*, 1966. iv + 260 *pp.* (Editors) 34 #2384

* American Mathematical Society Translations. Series 2, Vol. 59: Twelve papers on logic and algebra. *American Mathematical Society, Providence, R. I.*, 1966. iv + 284 *pp.* (Editors) 34 #2385

* American Mathematical Society Translations. Series 2, Vol. 60: Seven papers on analysis. *American Mathematical Society, Providence, R. I.*, 1967. iii + 283 *pp.* (Editors) 34 #7311

* American Mathematical Society Translations. Series 3, Vol. 61: Fourteen papers on functional analysis and differential equations. *American Mathematical Society, Providence, R. I.*, 1967. iv + 311 *pp.* (Editors) 36 #1250

* American Mathematical Society Translations. Series 2, Vol. 62: Five papers on functional analysis. *American Mathematical Society, Providence, R. I.*, 1967. iii + 284 *pp.* (Editors) 35 #5268

* American Mathematical Society Translations. Series 2, Vol. 63: Seven papers on algebra, algebraic geometry and algebraic topology. *American Mathematical Society, Providence, R. I.*, 1967. iii + 279 *pp.* (Editors) 36 #2

* American Mathematical Society Translations. Series 2, Vol. 64: Nine papers on logic and group theory. *American Mathematical Society, Providence, R. I.*, 1967. iv + 256 *pp.* (Editors) 36 #2451

* American Mathematical Society Translations. Series 2, Vol. 65: Nine papers on partial differential equations and functional analysis. *American Mathematical Society, Providence, R. I.*, 1967. iii + 296 *pp.* (Editors) 36 #4933

* American Mathematical Society Translations. Series 2, Vol. 66: Thirteen papers on group theory, algebraic geometry and algebraic topology. *American Mathematical Society, Providence, R. I.*, 1968. iv + 272 *pp.* (Editors) 36 #4934

* American Mathematical Society Translations. Series 2, Vol. 67: Nine papers on functional analysis and partial differential equations. *American Mathematical Society, Providence, R. I.*, 1968. ii + 288 *pp.* (Editors) 36 #4935

* American Mathematical Society Translations. Series 2, Vol. 68: Ten papers on differential equations and functional analysis. *American Mathematical Society, Providence, R. I.*, 1968. iv + 264 *pp.* (Editors) 37 #5

* American Mathematical Society Translations. Series 2, Vol. 69: Seven papers on algebra. *American Mathematical Society, Providence, R. I.*, 1968. iii + 256 *pp.* (Editors) 37 #6

* American Mathematical Society Translations. Series 2, Vol. 70: Thirty-one invited addresses (eight in abstract) at the International Congress of Mathematicians in Moscow, 1966. *American Mathematical Society, Providence, R. I.*, 1968. v + 266 *pp.* (Editors) 37 #1213

* American Mathematical Society Translations. Series 2, Vol. 71: Thirteen papers on algebra, topology, complex variables and linear programming. *American Mathematical Society, Providence, R. I.*, 1968. iv + 236 *pp.* (Editors) 37 #3882

* American Mathematical Society Translations. Series 2, Vol. 72: Fifteen papers on analysis. *American Mathematical Society, Providence, R. I.*, 1968. iv + 276 *pp.* (Editors) 37 #5067

* American Mathematical Society Translations. Series 2, Vol. 73: Fourteen papers on algebra, topology, algebraic and differential geometry. *American Mathematical Society, Providence, R. I.*, 1968. iv + 260 *pp.* (Editors) 38 #2

* American Matheamtical Society Translations. Series 2, Vol. 74: Ten papers on analysis. *American Mathematical Society, Providence, R. I.*, 1968. iv + 260 *pp.* (Editors) 38 #3

* American Mathematical Society Translations. Series 2, Vol. 75: Seven papers on equations related to mechanics and heat. *American Mathematical Society, Providence, R. I.*, 1968. iii + 255 *pp.* (Editors) 38 #5540

* American Mathematical Society Translations. Series 2, Vol. 76: Thirteen papers on algebra and analysis. *American Mathematical Society, Providence, R. I.*, 1968. iv + 263 *pp.* (Editors) 38 #5541

* American Mathematical Society Translations. Series 2, Vol. 77: Fourteen papers on series and approximation. *American Mathematical Society, Providence, R. I.*, 1968. iv + 266 *pp.* (Editors) 39 #2

* American Mathematical Society Translations. Series 2, Vol. 78: Eleven papers on topology. *American Mathematical Society, Providence, R. I.*, 1968. iv + 251 *pp.* (Editors) 39 #1253

* American Mathematical Society Translations. Series 2, Vol. 79 Thirteen papers on functional analysis and differential equations. *American Mathematical Society, Providence, R. I.*, 1969. iv + 269 *pp.* (Editors) 39 #3

* American Mathematical Society Translaitons. Series 2, Vol. 80 Thirteen papers on functions of real and complex variables. *American Mathematical Society, Providence, R. I.*, 1969. iv + 278 *pp.* (Editors) 39 #4

* American Mathematical Society Translations. Series 2, Vol. 81 Four papers on functions of real variables. *American Mathematical Society, Providence, R. I.*, 1969. iii + 280 *pp.* (Editors) 39 #1254

* American Mathematical Society Translations. Series 2, Vol. 82 Sixteen papers on number theory and algebra. *American Mathematica Society, Providence, R. I.*, 1969. iv + 264 *pp.* (Editors) 39 #5283

* American Mathematical Society Translations. Series 2, Vol. 83 Eighteen papers on logic and theory of functions. *American Mathematical Society, Providence, R. I.*, 1969. vi + 283 *pp.* (Editors) 40 #1231

* American Mathematical Society Translations. Series 2, Vol. 84 Twelve papers on algebra, algebraic geometry and topology. *American Mathematical Society, Providence, R. I.*, 1969. iv + 275 *pp.* (Editors) 40 #5370

* American Mathematical Society Translations. Series 2, Vol. 85 Twelve papers on functional analysis and geometry. *American Mathematical Society, Providence, R. I.*, 1969. iv + 258 *pp.* (Editors) 40 #5371

* American Mathematical Society Translations. Series 2, Vol. 86 Fifteen papers on real and complex functions, series, differential and integral equations. *American Mathematical Society, Providence, R. I.*, 1970. iv + 282 *pp.* (Editors) 41 #1462

* American Mathematical Society Translations. Series 2, Vol. 87 Sixteen papers on differential and difference equations, functiona analysis, games and control. *American Mathematical Society, Providence, R. I.*, 1970. iv + 303 *pp.* (Editors) 41 #3202

* American Mathematical Society Translations. Series 2, Vol. 88 Twelve papers on real and complex function theory. *American Mathematical Society, Providence, R. I.*, 1970. iv + 325 *pp.* (Editors) 41 #5135

* American Mathematical Society Translations. Series 2, Vol. 89 Thirteen papers on differential equations. *American Mathematical Society, Providence, R. I.*, 1970. iv + 300 *pp.* (Editors) 41 #8190

* American Mathematical Society Translations. Series 2, Vol. 90 Thirteen papers on functional analysis. *American Mathematical Society, Providence, R. I.*, 1970. iv + 253 *pp.* (Editors) 41 #8191

* American Mathematical Society Translations. Series 2, Vol. 91 Eighteen papers on analysis and quantum mechanics. *American Mathematical Society, Providence, R. I.*, 1970. v + 310 *pp.* (Editors) 42 #2

* American Mathematical Society Translations. Series 2, Vol. 92 Seventeen papers on topology and differential geometry. *American Mathematical Society, Providence, R. I.*, 1970. iv + 284 *pp.* (Editors) 42 #3

* American Mathematical Society Translations. Series 2, Vol. 93 Nine papers on functional analysis. *American Mathematical Society, Providence, R. I.*, 1970. iv + 253 *pp.* (Editors) 42 #4

* American Mathematical Society Translations. Series 2, Vol. 94 Sixteen papers on logic and algebra. *American Mathematical Society, Providence, R. I.*, 1970. iv + 276 *pp.* (Editors) 42 #1622

* American Mathematical Society Translations. Series 2, Vol. 95 Eleven papers in analysis. *American Mathematical Society, Providence, R. I.*, 1970. iv + 252 *pp.* (Editors) 42 #2899

* American Mathematical Society Translations. Series 2, Vol. 96 Ten papers on algebra and functional analysis. *American Mathematical Society, Providence, R. I.*, 1970. iv + 254 *pp.* (Editors) 42 #2900

* American Mathematical Society Translations. Series 2, Vol. 97 Eleven papers on logic, algebra, analysis and topology. *American Mathematical Society, Providence, R. I.*, 1971. iv + 258 *pp.* (Editors) 42 #5740

American Statistical Association Proceedings of the Business and Econom Statistics Section

* American Statistical Association 1966 Proceedings of the Business and Economic Statistics Section. Papers presented at the Annual Meeting of the American Statistical Association, Los Angele Calif., August 15-19, 1966. *American Statistical Association, Washington, D. C.*, 1966. xi + 487 *pp.* (Editors) 39 #7700

* American Statistical Association 1968 Proceedings of the Business and Economic Statistics Section. Papers presented at the Annual Meeting of the American Statistical Association, Pittsburgh Pa., August 20-23, 1968. *American Statistical Association, Washington, D. C.*, 1968. xi + 495 *pp.* (Editors) 39 #7701

Analogue methods and facilities for the solution of boundary problems

* Аналоговые методы и средства решения краевых задач. (Труды всесоюзного совещания, Москва, Октябрь 1962г.) (Russian) [Analogue methods and facilities for the solution of boundary problems. (Transactions of the All-Union Conference, Moscow, October, 1962.)] *Naukova Dumka, Kiev*, 1964. 355 *pp.* (Editors) 31 #5364

Analyse

* Séminaire P. Lelong, 3e année: 1961. Analyse. Faculté des Sciences de Paris. *Secrétariat mathématique, Paris,* 1961. 71 *pp. (not consecutively paged)* (Table of contents) 33 #3860

* Séminaire d'analyse, dirigé par Pierre Lelong, 1962/63. *Secrétariat mathématique, Paris,* 1963. iii + 54 *pp. (not consecutively paged)* (Editors) 31 #3291

l'Analyse fonctionnelle

* Deuxième Colloque sur l'Analyse fonctionnelle. Tenu à Liège du 4 au 6 mai 1964. Centre Belge de Recherches Mathématiques. *Librairie Universitatire, Louvain; Librairie Gauthier-Villars, Paris,* 1964. 166 *pp.* (Editors) 32 #1531

Analyse fonctionnelle générale

* Séminaire Choquet. 7e année: 1967/68. Initiation à l'analyse. Fasc. 2: Analyse fonctionnelle générale. *Secrétariat mathématique, Paris,* 1969. iii + 95 + iii *pp. (not consecutively paged)* (Editors) 43 #6032b

Analyse unilatérale

* Travaux du séminaire d'analyse unilatérale. Vol. I, 1968. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 35. *Université de Montpellier, Montpellier,* 1968. 104 *pp. (not consecutively paged)* (Editors) 41 #781

* Travaux du séminaire d'analyse unilatérale, Vol. II, 1969. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 54. *Université de Montpellier, Montpellier,* 1969. 97 *pp. (not consecutively paged)* (Editors) 41 #782

Analysis

* Simposio di analisi. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 7 (1962/63). *Seminario Matematico dell' Università, Messina,* 1963. i + 108 *pp.* (Editors) 39 #6703b

* Proceedings of the Symposium in Analysis, Queen's University, June, 1967. Queen's Papers in Pure and Applied Mathematics, No. 10. *Queen's Univeristy, Kingston, Ont.,* 1967. v + 250 *pp. (mimeographed)* (Editors) 36 #4939

* Beiträge aur Analysis und angewandten Mathematik. Hans Schubert zum 60. Geburtstag gewidment. Herausgegeben von Manfred Herrmann, Ott-Heinrich Keller, Rolf Klötzler und Erich Schincke. *Veb Deutscher Verlag der Wissenschaften, Berlin,* 1968. 163 *pp.* (Editors) 39 #1256

Analysis in function space

* Analysis in function space. Proceedings of a Conference, Dedham, Mass., June 9-13, 1963. Edited by William Ted Martin and Irving Segal. *The M.I.T. Press, Cambridge, Mass.,* 1964. vi + 218 *pp.* (Editors) 29 #1518

Analytic functions

* Современные проблемы теории аналитических функций. (Russian) [Contemporary problems in the theory of analytic functions] International Conference on the Theory of Analytic Functions, Erevan, 1965. Edited by M. A. Lavrent'ev. *Izdat. "Nauka", Moscow,* 1966. 362 *pp.* (Editors) 34 #2833

Proceedings of the Fourth Conference on Analytic Functions (Łódź, September 1-7. 1966). *Ann. Polon. Math.* 20 (1968), 279-325. (From the secretary's introduction) 38 #959

Analytic mechanics

* Аналитическая механика. Устойчивость движения. Небесная баллистика. Труны II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964г.). Обзорные доклады. Вып. I. (Russian) [Analytic mechanics. Stability of motion. Celestial ballistics. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports. Vol. I] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur'e and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 214 *pp. (errata insert)* (Editors) 34 #2a

* Исследования по аналитической механике. (Russian) [Studies in analytical mechanics] *Izdat. "Nauka", Uzbek. SSR, Tashkent,* 1965. 186 *pp.* (Editors) 34 #5341

Ancient astronomy

A collection of the rules of the science of astronomy. (Russian) Translated from the Arabic by N. G. Haĭretdinova. *Phys. Math. Sci. in the East, No. 2 (Russian), pp.* 147-182. *Izdat. "Nauka", Moscow,* 1969. (B. Rozenfel'd) 40 #4059

(See also Haĭretdinova, N. G., 40 #4060)

Annales de la Faculté des Sciences de l'Université de Clermont

* Actes du Colloque de Mathématiques Réuni à Clermont à l'Occasion du Tricentenaire de la Mort de Blaise Pascal. Tome I: Introduction et logique mathématique (4-8 juin, 1962). Annales de la Faculté des Sciences de l'Université de Clermont, No. 7. *Faculté des Sciences, Université de Clermont, Clermont-Ferrand,* 1962. 123 *pp.* (Editors) 43 #4593a

* Actes du Colloque de Mathématiques Réuni à Clermont à l'Occasion du Tricentenaire de la Mort de Blaise Pascal. Tome II: Calcul des probabilités, analyse numérique et calcul automatique, géométrie et physique mathématique (4-8 juin, 1962). Annales de la Faculté des Sciences de l'Université de Clermont, No. 8. *Faculté des Sciences, Université de Clermont, Clermont-Ferrand,* 1962. 189 *pp.* (Editors) 43 #4593b

Annales Universitatis Turkuensis

* Annales Universitatis Turkuensis Series AI. Volume 118. Dedicated to Kustaa Inkeri. *Dept. of Math., Turku University, Turku,* 1968. 59 *pp. (1 plate)* (Editors) 38 #5542

Annals of the Computational Laboratory, Harvard Univ.

* Proceedings of a Harvard symposium on digital computers and their applications, April 3-6, 1961. Annals of the Computational Laboratory of Harvard University, Vol. XXXI. *Harvard University Press, Cambridge, Mass.,* 1962. xiv + 332 *pp.* (Editors) 35 #5158

Annals of Mathematical Statistics

* The Annals of Mathematical Statistics. Indexes to Volumes 1-31, 1930-1960. Compiled under the editorship of J. Arthur Greenwood, Ingram Olkin, and I. Richard Savage. *North Central Publishing Co., St. Paul, Minn.,* 1962. xiii + 658 *pp.* (Editors) 29 #2881

Anneaux de Gorenstein, et torsion en algèbre commutative

* Anneaux de Gorenstein, et torsion en algèbre commutative. Séminaire d'Algèbre Commutative dirigé par Pierre Samuel, 1966/67. Texte rédigé, d'après des exposès de Maurice Auslander, Marguerite Mangeney, Christian Peskine et Lucien Szpiro. École Normale Supérieure de Jeunes Filles. *Secrétariat mathématique, Paris,* 1967. 69 *pp.* (J. L. Fisher) 37 #1435

Annual Reunion of Spanish Mathematicians

* Actas de la Primera Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the First Annual Reunion of Spanish Mathematicians] In collaboration with the Institute "Jorge Juan" of the Higher Council of Scientific Investigations. *Publicaciones de la Sección de Matemática de la Universidad de Madrid, Madrid,* 1961. 203 *pp.* (Editors) 31 #1158

* Actas de la Segunda Reunión de Matematicos Españoles, Noviembre, 1961. (Spanish) [Proceedings of the Second Reunion of Spanish Mathematicians, November, 1961] *Publicaciones del Seminario Matematico, Facultad de Ciencias de Zaragoza,* 3. *Zaragoza,* 1962. 218 *pp. (2 plates)* (Editors) 28 #1077

* Actas de la Tercera Reunión de Matemáticos Españoles. (Spanish) [Proceedings of the Third Reunion of Spanish Mathematicians] Mathematical Seminar held at the University of Barcelona, October 22-24, 1962. *Univ. of Barcelona, Barcelona,* 1963. 290 *pp.* (Table of contents) 40 #2483

* IV Reunión Anual de Matemáticos Españoles. (Spanish) [Fourth annual reunion of Spanish mathematicians] Acta Salmanticensia, Ciencias, tomo VI, núm. 4. *Universidad de Salamanca, Salamanca,* 1965. 168 *pp.* (Editors) 32 #7371

* Actas de la Quinta Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Fifth Annual Reunion of Spanish Mathematicians] Held at Valencia, October 29-31, 1964. *Publicaciones del Instituto "Jorge Juan" de Matemáticas, Madrid,* 1967. 294 *pp.* (Editors) 39 #3941

* VI Reunión Anual de Mathemáticos Españoles. (Spanish) [Sixth Annual Reunion of Spanish Mathematicians] Held at the University of Seville, October 28-30, 1965. *Univ. Sevilla, Seville,* 1967. 220 *pp.* (Editors) 39 #3943

* Actas de la Séptima Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Seventh Annual Reunion of Spanish Mathematicians] Held at Valladolid, December 19-21, 1966. *Univ. of Valladolid, Valladolid,* 1967. 154 *pp.* (Editors) 40 #4044

* Actas de la Octava Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Eighth Annual Reunion of Spanish Mathematicians] Held at Santiago, October 25-28, 1967. *Publicaciones del Instituto "Jorge Juan" de Matematicas, Madrid,* 1969. 239 *pp.* (Editors) 40 #4045

Annual review of nuclear science

* Annual review of nuclear science. Vol. 15. Emilio Segrè, editor. Gerhart Friedlander and H. Pierre Noyes, associate editors. *Annual Reviews, Inc., Palo Alto, Calif.,* 1965. iii + 502 *pp.* (Editors) 32 #3630

Annual Science Conference Proceedings

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 1: 1962, 1963, 1964. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1966. xii + 228 *pp.* (Editors) 34 #7312

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 2: 1965, 1966. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1969. xiv + 253 *pp.* (Editors) 40 #7055

The *Annus Mirabilis* of Sir Isaac Newton

* The Texas Quarterly, Volume 10 (1967), no. 3. The *Annus Mirabilis* of Sir Isaac Newton. Tricentennial Celebration. *University of Texas, Austin, Tex.*, 1967. (J. A. Lohne) 39 #2581

Anwendung mathematischer Methoden in der Ökonomie

* Anwendung mathematischer Methoden in der Ökonomie. Herausgegeben von W. S. Nemtschinow [V. S. Nemčinov]. *B. G. Teubner Verlagsgesellschaft, Leipzig*, 1963. 437 *pp. (1 insert)* (Editors) 29 #5628

Application of mathematical methods and computing technology to the prediction of industrial-technological development of the enterprises and branches of the national economy

* Применение математических методов и вычислительной техники в прогнозировании производственно-технического развития предприятий и отраслей народного хозяйства (Тезись Всесоюзного научно-технического симпозиума). (Russian) [Application of mathematical methods and computing technology to the prediction of industrial-technological development of the enterprises and branches of the national economy (Abstracts of an All-Union scientific and technological symposium)] *Moldav. Naučno-Issled. Inst. Naučno-Tehn. Informacii i Tehn.-Èkonom. Issled., Kishinev*, 1970. 249 *pp.* (Editors) 42 #7237

Application of mathematical methods in economic research and planning

* Применение математических методов в экономических исследованиях и планировании (Труды семинара, Киев, 1968 г.). Вып. 3. (Russian) [Application of mathematical methods in economic research and planning (Proceedings of a Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev*, 1969. 113 *pp.* (Editors) 39 #7926

Application of mathematical methods in geology

* Применение математических методов в геологии (Материалы научной конференции, Алма-Ата, 7-10 октября 1968 года). (Russian) [Application of mathematical methods in geology (Proceedings of a Scientific Conference, Alma-Ata, October 7-10, 1968)] *Izdat. "Nauka" Kazah. SSR, Alma-Ata*, 1968. 413 *pp.* (Editors) 41 #5136

Application of mathematics in economic studies

* Применение математики в экономических исследованиях. Том 3. (Russian) [Application of mathematics in economic studies. Vol. 3] Edited by V. S. Nemčinov. *Izdat. Soc.-Èkonom. Lit. "Mysl'", Moscow*, 1965. 495 *pp. (3 foldouts)* (Editors) 34 #3988

Application of mathematics to problems in theoretical physics

* Cargèse Lectures in Theoretical Physics: Application of mathematics to problems in theoretical physics. Edited by F. Lurçat. *Gordon and Breach Science Publishers, Inc., New York-London-Paris*, 1967. viii + 507 *pp.* (Editors) 37 #1125

Applications of analysis to mathematical physics

* Simposio internazionale sulle applicazioni dell'analisi alla fisica matematica. Quarantottesima Riunione della Società Italiana per il Progresso delle Scienze (Cagliari-Sassari, Settembre 28-Ottobre 4, 1964). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome*, 1965. viii + 263 *pp.* (Editors) 34 #7058

Applications of categorical algebra

* Applications of categorical algebra. Proceedings of Symposia in Pure Mathematics, Vol. XVII. Edited by Alex Heller. *American Mathematical Society, Providence, R. I.*, 1970. v + 231 *pp.* (Editors) 40 #5372

The applications of generalized functions

* The applications of generalized functions. Papers presented at a Symposium held in Stony Brook, N. Y., September 12-14, 1966. SIAM J. Appl. Math. 15 (1967), 925-1111. *SIAM, Philadelphia, Pa.*, 1967. (Editors) 36 #1973

Applications of mathematical programming techniques

* Applications of mathematical programming techniques. A conference held in Cambridge, England, between 24th-28th June, 1968 under the aegis of the N. A. T. O. Scientific Affairs Committee. Edited by E. M. L. Beale. *American Elsevier Publishing Co., Inc., New York*, 1970. ix + 451 *pp.* (Editors) 41 #8027

Applications of model theory to algebra, analysis, and probability

* Applications of model theory to algebra, analysis, and probability. Edited by W. A. J. Luxemburg. *Holt, Rinehart and Winston, New York-Montreal, Que.-London*, 1969. vii + 307 *pp.* (Editors) 38 #3143

Applications of nonlinear partial differential equations in mathematical physics

* Proceedings of Symposia in Applied Mathematics. Vol. XVII: Applications of nonlinear partial differential equations in mathematical physics. Edited by R. Finn. *American Mathematical Society, Providence, R. I.*, 1965. vii + 234 *pp.* (Editors) 31 #1790

Applications of the theory of functions in continum mechanics

* Приложения теории функций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963). Том I. Механика твердого тела. (Russian) [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963). Vol. I. Mechanics of solids] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow*, 1965. 452 *pp.* (Editors) 32 #4889a

* Приложения теории функций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963). Том II. Механика жидкости и газа, математические методы. (Russia [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963), Vol. II. Fluid and gas mechanics, mathematical methods] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow*, 1965. 478 *pp.* (Editors) 32 #4889b

Applications of Walsh functions

* Applications of Walsh functions. 1970 Proceedings (31 March-3 April): Symposium and Workshop, held at Naval Research Laborato Washington, D. C. Edited by C. A. Bass. *Naval Research Laborator Washington, D. C.; University of Maryland, College Park, Md.*, 1970 viii + 274 *pp.* (Editors) 42 #1623

Applied automata theory

* Applied automata theory. Edited by Julius T. Tou. *Academic Press, New York-London*, 1968. xi + 330 *pp.* (Editors) 39 #8018

Applied combinatorial mathematics

* Applied combinatorial mathematics. Edited by Edwin F. Beckenbach. University of California Engineering and Physical Sciences Extension Series. *John Wiley and Sons, Inc., New York-London-Sydney*, 1964. xxi + 608 *pp.* (H. J. Ryser) 30 #4687

Applied mathematics

* Simposio di meccanica e matematica applicata. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 8 (1963/64). *Seminario Matematico dell'Università, Messina*, 1964. i + 188 *pp.* (Editors) 39 #6703c

* Некоторые вопросы прикладной математики. Вып. 3. (Russian) [Certain problems of applied mathematics. No. 3] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev*, 1967. 432 *pp. (2 foldouts)* (Editors) 39 #3736

* Beiträge zur Analysis und angewandten Mathematik. Hans Schube zum 60. Geburtstag gewidmet. Herausgegeben von Manfred Herrmann, Ott-Heinrich Keller, Rolf Klötzler und Erich Schincke. *Veb Deutscher Verlag der Wissenschaften, Berlin*, 1968. 163 *pp.* (Editors) 39 #1256

* Некоторые вопросы прикладной математики. Вып. 4. (Russian) [Certain problems of applied mathematics. No. 4] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1969. 432 *pp.* (Editors) 41 #5137

Applied mathematics and programming

* Прикладная математика и программирование. (Russian) [Applied mathematics and programming] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Akad. Nauk Moldav. SSR, Kishinev*, 1968. 112 *pp.* (Editors) 39 #2453

Applied mechanics

* Advances in Applied Mechanics. Vol. 8. Edited by H. L. Dryde and Th. von Kármán. *Academic Press, New York-London*, 1964. x + 298 *pp.* (Editors) 29 #3028

* Advances in applied mechanics. Vol. 9. Edited by G. G. Chernyi, H. L. Dryden, P. Germain, L. Howarth, W. Olszak, W. Prager, R. F. Probstein and H. Ziegler. Managing editor, G. Kuerti. *Academic Press, New York-London*, 1966. x + 387 *pp.* (Editors) 34 #8677

Approximation

* Abstract spaces and approximation. Proceedings of the Conference held at the Mathematical Research Institute at Oberwolfach, Black Forest, July 18-27, 1968. Edited by P. L. Butzer and B. Szőkefalvi-Nagy. International Series of Numerical Mathematics (ISNM), Vol. 10. *Birkhauser Verlag, Basel-Stuttgart*, 1969. 423 *pp. (1 plate)* (Editors) 41 #4102

Approximation of functions

* Approximation of functions. Proceedings of the Symposium on Approximation of Functions, General Motors Research Laboratories, Warren, Michingan, 1964. Edited by Henry L. Garabedian. *Elsevier Publishing Co., Amsterdam-London-New York*, 1965. ix + 220 *pp.* (Editors) 32 #2789

* Исследования по современным проблемам суммирования и приближени функций и их приложениям. Часть I. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part I] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk*, 1967. 152 *pp.* (Editors) 42 #4352

* Исследования по современным проблемам суммирования и приближени функций и их приложениям. Часть II. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part II] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk*, 1969. 88 *pp.* (Editors) 42 #4353

pproximation of functions in the mean

* Proceedings of the Steklov Institute of Mathematics, No. 88 (1967): Approximation of functions in the mean. Edited by S. B. Stečkin. Translated from the Russian by R. P. Boas and H. R. Jaschke. *American Mathematical Society, Providence, R. I.*, 1969. iii + 138 *pp.* (Editors) 40 #5380

pproximation theory

* On approximation theory. (Proceedings of the Conference held in the Mathematical Research Institute at Oberwolfach, Black Forest, August 4-10, 1963.) Edited by P. L. Butzer and J. Korevaar. International Series of Numerical Mathematics. Vol. 5. *Birkhäuser Verlag, Basel-Stuttgart*, 1964. **xvi** + 261 *pp.* *(1 plate)* (Editors) 31 #2537

* Approximation theory. Proceedings of a Symposium held at Lancaster, July, 1969. Edited by A. Talbot. *Academic Press, London-New York*, 1970. viii + 356 *pp.* (Editors) 41 #8879

* Межвузовская научная конферинция по проблеме "Применение функционального анализа в теории приближений". Материалы конференции. (Russian) [Interuniversity Scientific Conference on the Problem "Application of Functional Analysis in Approximation Theory". Proceedings of the Conference.] *Kalinin. Gosudarstv. Ped. Inst., Kalinin*, 1970. 204 *pp.* (Editors) 42 #3481

pproximations with special emphasis on spline functions

* Approximations with special emphasis on spline functions. Proceedings of a Symposium Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, May 5-7, 1969. Edited by I. J. Schoenberg. Publication No. 23 of the Mathematics Research Center, United States Army, The University of Wisconsin. *Academic Press, New York-London*, 1969. xi + 488 *pp.* (Editors) 40 #4638

pproximationstheorie

* Numerische Mathematik, Differentialgleichungen. Approximationstheorie. Vortragsauszüge der Tagung über Numerische Behandlung von Differentialgleichungen vom 20. bis 25. Juni 1966 und der Tagung über Numerische Analysis, insbesondere Approximationstheorie vom 13. bis 19. November 1966 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald) Herausgegeben von L. Collatz, G. Meinardus und H. Unger. International Series of Numerical Mathematics (ISNM), Vol. 9. *Birkhäuser Verlag, Basel-Stuttgart*, 1968. 401 *pp.* (Editors) 42 #7

rbeitsgemeinschaft für Forschung des Landes Nordrhein-Westfalen

* Arbeitsgemeinschaft für Forschung des Landes Nordrhein-Westfalen. Natur-, Ingenieur- und Gesellschaftswissenschaften, Heft 157. *Westdeutscher Verlag, Cologne*, 1966. 60 *pp.* (Editors) 36 #4936

* Arbeitsgemeinschaft für Forschung des Landes Nordrhein-Westfalen. Natur-, Ingenieur- und Gesellschaftswissenschaften, Heft 184. *Westdeutscher Verlag, Cologne*, 1968. 50 *pp.* (Editors) 39 #1255

rchéologie et calculateurs. Problèmes sémiologiques et mathématiques

* Archéologie et calculateurs. Problèmes sémiologiques et mathématiques. Actes du Colloque International, Marseille, 7-12 avril 1969. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1970. 371 *pp. (1 foldout)* (Editors) 42 #4052

rchimedes' complete works

* 'Αρχιμήδουσ ἅπαντα (ἀρχαῖον κείμενον, μετάφρασισ, σχόλια). Τόμοσ Α', Μέροσ Α': μαρτυρίαι ἑλληνικαὶ-λατινικαί. (Greek) [Archimedes' complete works (original text, translation, annotations). Vol. 1, Part 1: Greek and Latin testimonies] Translated and edited by Evangelos S. Stamatis. *Press of the Ministry of Technology of Greece, Athens*, 1970. xxii + 383 *pp.* (E. B. Allen) 44 #6424

rchimedes Werke

* Archimedes Werke. Übersetzt und mit Anmerkungen versehen von Arthur Czwalina. Im Anhang: Kreismessung. Übersetzt von F. Rudio. Des Archimedes Methodenlehre von den mechanischen Lehrsätzen. Übersetzt von J. L. Heiberg und kommentiert von H. G. Zeuthen. *Wissenschaftliche Buchgesellschaft, Darmstadt*, 1963. vi + 423 *pp.* (C. J. Scriba) 30 #1017

rithmetical algebraic geometry

* Arithmetical algebraic geometry. (Proceedings of a Conference Held at Purdue Univeristy, December 5-7, 1963). Edited by O. F. G. Schilling. *Harper & Row, Publishers, New York*, 1965. vii + 200 *pp.* (Editors) 33 #1308

rithmetical groups and automorphic functions

* Арифметические группы и автоморфные функции. (Russian) [Arithmetical groups and automorphic functions] Translated from the English and French by S. I. Gel'fand and D. A. Každan. Edited by I. I. Pjateckiĭ-Šapiro. *Izdat. "Mir", Moscow*, 1969. 224 *pp.* (Editors) 40 #1336

rithmetics

* Rara arithmetica. A catalogue of the arithmetics written before the year MDCI with a description of those in the library of George Arthur Plimption of New York. Fourth edition, including **A.** De Morgan's *Arithmetical books*. *Chelsea Publishing Co., New York*, 1970. xviii + 725 *pp.* (From the preface to the fourth edition) 44 #1536

Arizona State University Topology Conference

* Topology conference (Arizona State University, Tempe, Ariz., 1967). Edited by E. E. Grace. *Arizona State Univ., Tempe, Ariz.*, 1968. vii + 339 *pp.* (Editors) 38 #5152

Articles on mathematical statistics and the theory of probability

* Труды Математического института имени В. А. Стеклова. LXXIX. Работы по математической статистике и теории вероятностей. (Russian) [Proceedings of the Steklov Mathematical Institute, Vol. 79. Articles on mathematical statistics and the theory of probability] Edited by Ju. V. Linnik. *Izdat. "Nauka", Moscow*, 1965. 236 *pp. (errata insert)* (Editors) 34 #5113a

* Proceedings of the Steklov Institute of Mathematics, Number 79 (1965). Articles on mathematical statistics and the theory of probability. Edited by Ju. V. Linnik. Translated from the Russian by Lisa Rosenblatt. *American Mathematical Society, Providence, R. I.*, 1966. iv + 259 *pp.* (Editors) 34 #5113b

Aspects of inductive logic

* Aspects of inductive logic. Edited by Jaakko Hintikka and Patrick Suppes. *North-Holland Publishing Co., Amsterdam*, 1966. vi + 320 *pp.* (Editors) 34 #1153

Aspects of mathematical logic

* Aspects of mathematical logic. Centro Internazionale Matematico Estivo (C. I. M. E.) III Ciclo, Varenna, 9-17 settembre, 1968. Coordinatore: E. Casari. *Edizioni Cremonese, Rome*, 1969. ii + 285 *pp.* (Editors) 40 #4079

Astrodynamics Conference, AIAA, Yale Univ.

* Celestial mechanics and astrodynamics. Edited by Victor G. Szebehely. Progress in Astronautics and Aeronautics, Vol. 14. *Academic Press, New York-London*, 1964. xix + 744 *pp.* (Editors) 32 #3814

Astronomie

* Astronomie. Volume publié sous la direction d'Evry Schatzman. Encyclopédie de la Pléiade, Vol. XIII. *Librairie Gallimard, Paris*, 1962. xxiii + 1834 *pp.* (J. M. A. Danby) 29 #5623

Astrophysics and the many-body problem

* Astrophysics and the many-body problem. Brandeis Summer Institute, 1962, Vol. 2. Lectures by E. N. Parker, J. S. Goldstein, A. A. Maradudin, V. Ambegackar. Notes by M. Turoff, A. Skalafuris, B. Bergerson. *W. A. Benjamin, Inc., New York-Amsterdam*, 1963. vii + 438 *pp.* (M. MacGregor) 31 #1096

Asymptotic distribution modulo 1

* Asymptotic distribution modulo 1. Papers presented at the NUFFIC International Summer Session in Science, sponsored by NATO, held in Breukelen, August 1-11, 1962. Edited by J. F. Koskma and L. Kuipers. *P. Noordhoff N. V., Groningen*, 1965. iv + 203 *pp.* (Editors) 31 #113

Asymptotic solutions of differential equations and their applications

* Asymptotic solution of differential equations and their applications. Proceedings of a Symposium Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, May 4-6, 1964. Edited by Calvin H. Wilcox. Publication No. 13 of the Mathematics Research Center, United States Army, The University of Wisconsin. *John Wiley & Sons, Inc., New York-London-Sydney*, 1964. x + 249 *pp.* (Editors) 29 #3702

Atas Colóquio Brasileiro Matemática. See Proc. Brazilian Math. Collóq.

Atti del Congresso dell'Unione Matematica Italiana

* Atti del Settimo Congresso dell'Unione Matematica Italiana. Tenuto a Genova nei Giorni 30 settembre-5 ottobre, 1963. *Edizioni Cremonese, Rome*, 1965. 415 *pp. (4 plates)* (Editors) 34 #5603

Atti del Convegno sulle Equazioni alle Derivate Parziali

* Atti del Convegno sulle Equazioni alle Derivate Parziali (Bologna, 22-24 aprile, 1967). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni "Oderisi", Gubbio*, 1967. iv + 188 *pp.* (Editors) 40 #6022

* Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi, 25-27 febbraio, 1965). Edito dalla Unione Matematica Italiana con il contributio del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome*, 1966. v + 144 *pp.* (Editors) 33 #7725

Atti Convegno Lagrangiano

* Atti del Convegno Lagrangiano. Torino, 22-25 ottobre, 1963. Supplemento al Vol. 98 (1963/64) degli Atti della Accademia delle Scienze di Torino. *Accademia delle Scienze, Torino*, 1964. 490 *pp.* (Editors) 31 #4699

Atti della Società elvetica di scienze naturali

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (146. Versammlung in Solothurn, 1966): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zürich,* 1966. 307 *pp.* (Editors) 37 #2560

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (147. Versammlung in Schaffhausen, 1967). *Kommissionsverlag Berichthaus, Zürich,* 1967. 205 *pp.* (Editors) 43 #7283

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (149. Versammlung in St. Gallen, 1969): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zürich,* 1969. 303 *pp.* 42 #5744

Atti della Tavola Rotonda

* I fondamenti del calcolo delle probabilità. Atti della Tavola Rotonda tenuta a Poppi nei Giorni 11-12 Giugno, 1966. A cura di Dario Fürst e Giuseppe Parenti. *Scuola di Statistica dell'Università, Florence,* 1967. 251 *pp.* (Editors) 36 #3384

Automata theory

* Automata theory. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1966. xiv + 342 *pp.* (Editors) 33 #3855

* Applied automata theory. Edited by Julius T. Tou. *Academic Press, New York-London,* 1968. xi + 330 *pp.* (Editors) 39 #8018

Automata theory and methods of formalized synthesis of computers and systems

* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Семинар, Киев, 1968 г.). Вып. 3. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Keiv,* 1968. 104 *pp.* (Editors) 40 #1210

* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 4. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 4] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 114 *pp.* (Editors) 39 #6685

* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 5. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 5] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 111 *pp.* (Editors) 39 #6686

Automatentheorie

* 3. Colloquium über Automatentheorie, vom 19. bis 22. Oktober 1965 in Hannover. Herausgegeben von W. Händler, E. Peschl und H. Unger. Internationale Schriftenreihe zur Numerischen Mathematik, Band 6. *Birkhäuser Verlag, Basel-Stuttgart,* 1967. vi + 316 *pp.* (Editors) 36 #4919

Automatic control

* 1968 (Ninth) Joint Automatic Control Conference. The University of Michigan, Ann Arbor, Mich., June 26-28, 1968. Sponsored by the American Automatic Control Council. *Institute of Electrical and Electronics Engineers, New York,* 1968. (Editors) 40 #1233

* Eleventh (1970) Joint Automatic Control Conference of the American Automatic Control Council (Georgia Institute of Technology, Atlanta, Ga., June 22-26, 1970). Preprints of technical papers. *The American Society of Mechanical Engineers, New York,* 1970. xxi + 885 *pp.* (Editors) 41 #8051

Automatic control and computer engineering

* Automatic control and computer engineering. Vol. III. Edited by V. V. Solodovnikov. Translated from the Russian by O. M. Blunn. English translation editor, Tribhuan Prasad. *Pergamon Press, Oxford-New York-Paris,* 1966. x + 445 *pp.* (Editors) 35 #5237

Automatic control and computing techniques

* Автоматическое управление и вычислительная техника. Вып. 1. (Russian) [Automatic control and computing techniques. Vol. 1.] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1958. 304 *pp.* (Editors) 31 #3256a

* Автоматическое управление и вычислительная техника. Вып. 3. (Russian) [Automatic control and computing techniques. Vol. 3.] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1960. 491 *pp.* (Editors) 31 #3256b

* Автоматическое управление и вычислительная техника. Вып. 4. (Russian) [Automatic control and computing techniques. Vol. 4] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1961. 384 *pp.* (Editors) 31 #3256c

* Автоматическое управление и вычислительная техника. Вып. 6. (Russian) [Automatic control and computing techniques. Vol. 6] *Izdat. "Mašinostroenie", Moscow,* 1964. 351 *pp.* (Editors) 31 #3256d

Automatic demonstration

* Symposium on Automatic Demonstration (held at Versailles, France, December, 1968). Edited by M. Laudet, D. Lacombe, L. Noli and M. Schützenberger. Lecture Notes in Mathematics, Vol. 125. *Springer-Verlag, Berlin-New York,* 1970. v + 310 *pp. (loose errata* (Editors) 42 #2716

Automatic programming, numerical methods and functional analysis

* Proceedings of the Steklov Institute of Matheamtics, No. 96 (1968): Automatic programming, numerical methods and functional analysis. Edited by V. N. Faddeeva. Translated from the Russian by Leo Ebner. *American Mathematical Society, Providence, R. I.,* 1970. vi + 323 *pp.* (Editors) 42 #1629

Automatic and remote control

* Automatic and remote control. 4 vols. Proceedings of the First Internatioanl Congress of the Internatioanl Federation of Automatic Control (Moscow, 1960). (Title and table of contents in English, French and German) Edited by J. F. Coales, J. R. Ragazzini and A. T. Fuller. *Butterworths, London,* 1961, *Vol. I:* xliii + 10 + *pp.* 1-546; *Vol.* II: xliii + *pp.* 547-1091; *Vol.* III: xliii + 412 *pp.; Vol.* IV: xliii + 513 *pp.* (Editors) 32 #9074

* Automatic and remote control. Vol. 1: Applications and components. Vol. 2: Theory. Proceedings of the Second Congress of the International Federation of Automatic Control (I. F. A. C.), Basel, Switzerland, 1963. Editor: Victor Broĭda. Co-editors: Derek H. Barlow and Otto Schäfer. *Butterworths, London; Oldenbourg, Munich,* 1964. *Vol.* 1, xli + 749 *pp.; Vol.* 2, xli + 695 *pp.* (Editors) 32 #7267

Automation on language translation and theorem proving. Some applications of mathematical logic

* Automation in language translation and theorem proving. Some applications of mathematical logic. Edited by P. Braffort and F. van Scheepen. EUR 4038 e. *Commission of the European Communities' Directorate-General for Dissemination of Information, Brussels,* 1968. xv + 295 *pp.* (Editors) 38 #3119

Automatization of programming

* Автоматизация программирования (Симинар, Киев, 1966 г.). Вып. 2. (Russian) [Automatization of programming (Seminar, Kiev, 1966). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 96 *pp.* (Editors) 39 #7933

Automaton theory and learning systems

* Automaton theory and learning systems. Edited by D. J. Stewart, from contributions selected by Stafford Beer, F. H. George and the late Richard Goodman. *Academic Press, London; Thompson Book Co., Inc., New York,* 1967. xi + 215 *pp.* (Editors) 36 #7442

Automorphic functions

* Арифметические группы и автоморфные функции. (Russian) [Arithmetical groups and automorphic functions] Translated from the English and French by S. I. Gel′fand and D. A. Každan. Edited by I. I. Pjateckiĭ-Šapiro. *Izdat. "Mir", Moscow,* 1969. 224 *pp.* (Editors) 40 #1336

Autovalori e autosoluzioni

* Autovalori e autosoluzioni. 2° Ciclo, Chieti, 1-9 agosto 1962. Centro Internazionale Matematico Estivo (C. I. M. E.). *Edizioni Cremonese, Rome,* 1963. 234 *pp. (not consecutively numbered)* (W. H. Fleming) 29 #6171

Avtomatičeskoe upravlenie i vyčislitel′naja tehnika

* Автоматическое управление и вычислительная техника. Вып 1. (Russian) [Automatic control and computing techniques. Vol. 1] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1958. 304 *pp.* (Editors) 31 #3256a

* Автоматическое управление и вычислительная техника. Вып. 3. (Russian) [Automatic control and computing techniques. Vol. 3] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1960. 491 *pp.* (Editors) 31 #3256b

* Автоматическое управление и вычислительная техника. Вып. 4. (Russian) [Automatic control and computing techniques. Vol. 4] *Gos. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1961. 384 *pp.* (Editors) 31 #3256c

* Автоматическое управление и вычислительная техникя. Вып. 6. (Russian) [Automatic control and computing techniques. Vol. 6] *Izdat. "Mašinostroenie", Moscow,* 1964. 351 *pp.* (Editors) 31 #3256d

Axiomatic field theory

* Particle symmetries and axiomatic field theory. Vol. 1: Axiomatic field theory. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 516 *pp.* (Editors) 34 #3887a

Axiomatic set theory

* Axiomatic set theory. Proceedings of the Symposium in Pure Mathematics of the American Mathematical Society held at the University of California, Los Angeles, Calif., July 10-August 5, 1967. Edited by Dana S. Scott. Proceedings of Symposia in Pure Mathematics, Vol. XIII, Part I. *American Mathematical Society, Providence, R. I.,* 1971. v + 474 *pp.* (Editors) 43 #38

Le axiome de paralleles de Euclides à Hilbert

* Le axiome de paralleles de Euclides à Hilbert: Un probleme cardinal in le evolution del geometrie. (Interlingua) [The parallel axiom from Euclid to Hilbert: A cardinal problem in the evolution of geometry] Excerpts in facsimile from the principal original works, with interpage translation into Interlingua, and with two appendices on Interlingua. Introduction and commentary by C. E. Sjöstedt. *Interlingue-Fundation, Uppsala; Bokförlaget Natur och Kultur, Stockholm,* 1968. xxviii + 940 + 14 *pp.* (D. J. Struik) 39 #10

Basic developments in fluid dynamics

* Basic developments in fluid dynamics, Vol. I. Edited by Maurice Holt. *Academic Press, New York-London,* 1965. xi + 447 *pp.* (Editors) 33 #3547

Basic and standard programs for computers and systems

* Основные и типовые программы для вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Basic and standard programs for computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR Kiev,* 1968. 93 *pp.* (Editors) 40 #1057

Battelle rencontres

* Battelle rencontres. 1967 lectures in mathematics and physics. Edited by Cecile M. DeWitt and John A. Wheeler. *W. A. Benjamin, Inc., New York-Amsterdam,* 1968. xvii + 557 *pp.* (Editors) 38 #955

Battelle Seattle Rencontres

* Group representations in mathematics and physics. Battelle Seattle 1969 Rencontres. Edited by V. Bargmann. Lecture Notes in Physics, Vol. 6. *Springer-Verlag, Berlin-New York,* 1970. v + 340 *pp.* (Editors) 42 #6155

Beiträge zur Analysis und angewandten Mathematik

* Beiträge zur Analysis und angewandten Mathematik. Hans Schubert zum 60. Geburtstag gewidmet. Herausgegeben von Manfred Herrmann, Ott-Heinrich Keller, Rolf Klötzler und Erich Schincke. *Veb Deutscher Verlag der Wissenschaften, Berlin,* 1968. 163 *pp.* (Editors) 39 #1256

Beiträge zur Graphentheorie

* Beiträge zur Graphentheorie. Vorgetragen auf dem internationalen Kolloquium in Manebach (DDR) vom 9.-12. Mai 1967. Herausgegeben von Horst Sachs, Heinz-Jürgen Voss und Hansjoachim Walther. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1968. 394 *pp.* (Editors) 39 #2645

Beiträge zur Spannungs- und Dehnungsanalyse

* Beiträge zur Spannungs- und Dehnungsanalyse. I. Herausgegeben von Kurt Schröder. Schriftenreihe Inst. Math. Deutsch. Akad. Wiss. Berlin Reihe B, Heft 1. *Akademie-Verlag, Berlin,* 1965. vi + 151 *pp.* (4 *plates*) (S. R. Bodner) 32 #8581

* Beiträge zur Spannungs- und Dehnungsanalyse. II. Herausgegeben von Kurt Schröder. Bearbeitet von Gotthard Haberland, Volkhard-Reimann und Joachim Träger. Schriftenreihe der Institut für Mathematik bei der Deutschen Akademie der Wissenschaften zu Berlin, Reihe B. Angewandte Mathematik und Mechanik, Heft 3. *Akademie-Verlag, Berlin,* 1966. vii + 112 *pp.* (5 *plates*) (Editors) 33 #3856

Belfer Graduate School of Science Annual Science Conference Proceedings

* Belfer Graduate School of Science Annual Conference Proceedings: Some recent advances in the basic sciences. Vol. 1: 1962, 1963, 1964. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1966. xii + 228 *pp.* (Editors) 34 #7312

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 2: 1965, 1966. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1969. xiv + 253 *pp.* (Editors) 40 #7055

Bericht von der Dirichlet-Tagung

* Bericht von der Dirichlet-Tagung. Herausgegeben von Hans Reichardt. Schriftenreihe Inst. Math. Deutsch. Akad. Wiss. Berlin, Heft 13. *Akademie-Verlag, Berlin,* 1963. vii + 82 *pp.* (Editors) 30 #4648

Bericht Tagung, Oberwolfach

* Mathematische Methoden der Himmelsmechanik und Astronautik. Bericht Tagung Math. Forschungsinstituts Oberwolfach, 15.-21. März 1964. Herausgegeben von Eduard Stiefel. Berichte aus dem Mathematischen Forschungsinstitut, Oberwolfach, Heft 1. *Bibliographisches Institut, Mannheim,* 1966. 350 *pp.* (Table of contents) 34 #3979

* Methoden und Verfahren der mathematischen Physik. Band 1 (Oktober 1969). Bericht über eine Tagung vom 13. bis 19. April 1969 in Oberwolfach. Herausgegeben von Bruno Brosowski und Erich Martensen. B. I-Hochschulskripten, 720/720a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. v + 183 *pp.* (Editors) 41 #6432a

* Methoden und Verfahren der mathematischen Physik. Band 2 (November 1969). Bericht über eine Tagung vom 13. bis 19. April in Oberwolfach. Herausgegeben von Bruno Brosowski und Erich Martensen. B. I.-Hochschulskripten, 721/721a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. vi + 179 *pp.* (Editors) 41 #6432b

(See also Jeggle, H., 42 #5745)

Berkeley Sympos. Math. Statist. and Prob., Proc. See Sympos. Math. Statist. and Prob., Proc.

Bernoulli, Bayes, Laplace. Anniversary volume

* Bernoulli (1713), Bayes (1763), Laplace (1813). Anniversary volume. Proceedings of an International Research Seminar, Statistical Laboratory. University of California, Berkeley, 1963. Edited by Jerzy Neyman and Lucien M. LeCam. *Springer-Verlag, New York,* 1965. ix + 262 *pp.* (Table of contents) 33 #1911

Bibliographie des oeuvres de Jacques Hadamard

Bibliographie des oeuvres de Jacques Hadamard. *Enseignement Math.* (2) 13 (1967), 53-72. (Editors) 36 #3622e

Bibliographie über Optimierungsprobleme unter Ungewissheit

(See Weinert, Horst, 39 #3804)

Bibliographie des publications de Pierre Sergescu

Bibliographie des publications de Pierre Sergescu. *Janus* 55 (1968), 64-73. (Editors) 37 #5069

Bibliography

Alexandru Myller, 1879-1965. Obituary. (Romanian) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11a (1965), I-XIV. (1 *plate*) (Editors) 34 #4097

Manindra Nath Ghosh: 1918-1965. *Calcutta Statist. Assoc. Bull.* 14 (1965), 89-92. (Editors) 33 #5435

New books. (Russian) *Differencial'nye Uravnenija* 1 (1965), 426-427; *ibid.* 2 (1966), 435. (Editors) 38 #2356a

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963 гг.). Авторско-библиографический указательк десятилетнему комплекту *RŽ "Matematika"*. Том I. Русский алфавит. (Russian) [Referativnyĭ Žurnal: World mathematics for 10 years (1953-1963). Author-bibliographic index for a ten-year run of *RŽ "Matematika"*. Vol. I. Russian alphabet] Academy of Sciences of the USSR. Institute of Scientific Information. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 753 *pp.* (Editors) 35 #1418

Masuo Hukuhara. (Esperanto) *Funkcial. Ekvac.* 9 (1966), ii-iii. (1 *plate*) (Editors) 34 #7323

Mitio Nagumo. (Esperanto) *Funkcial. Ekvac.* 9 (1966), vi. (1 *plate*) (Editors) 34 #7326

Works of Professor Masuo Hukuhara. (Esperanto) *Funkcial. Ekvac.* 9 (1966), ix-xvii. (Editors) 34 #7325

Works of Professor Mitio Nagumo. (Esperanto) *Funkcial. Ekvac.* 9 (1966), xviii-xxii. (Editors) 34 #7328

* Леонард Эйлер: Переписка: Аннотированный указатель. (Russian) [Leonhard Euler: Correspondence: Annotated bibliography] Edited by A. P. Juškevič and V. I. Smirnov. Compiled by T. N. Klado, Ju. H. Kopelevič, T. A. Lukina, I. G. Mel'nikov, V. I. Smirnov, A. P. Juškevič, with the assistance of K.-R. Biermann and F.-G. Lange. Academy of Sciences of the USSR. Institute of History of Natural Sciences and Technology. *Izdat. "Nauka"-Leningrad. Otdel., Leningrad,* 1967. 391 *pp. (errata insert)* (Editors) 36 #1270

* Leibniz-Bibliographie. Die Literatur über Leibniz. Bearbeitet von Kurt Müller. Veröffentlichungen des Leibniz-Archivs herausgegeben von der Niedersächsischen Landesbibliothek, Band 1. *Vittorio Klostermann, Frankfurt am Main,* 1967. xx + 478 *pp.* (F. Krafft) 38 #14

* Труды научных сотрудников Воронежского государственного университета: Библиографический указатель 1954-1961. (Russian) [The works of scientific investigators at Voronezh State University: Bibliography 1954-1961] *Izdat. Voronež. Univ., Voronezh,* 1967. 262 *pp. (errata insert)* (Editors) 39 #6

* Борис Николаевич Делоне. (Russian) [Boris Nikolaevič Delone] Introductory article by D. K. Faddeev. Bibliography compiled by A. P. Epifanova. Academy of Sciences of the USSR. Materials for the Biobibliography of Soviet Scientists, Ser. Math.,
} No. 11. *Izdat. "Nauka", Moscow,* 1967. 55 *pp.* (Editors) 39 #2593

Academician Anatoliĭ Ivanovič Mal'cev. (Russian) *Algebra i Logika* 6 (1967), *no.* 4, i-xi (1 *plate*). (Editors) 37 #22

* Мировая научная и техническая литература. Аннотированный справочник периодических и продолжающихся изданий. Том I: Астрономия, геодезия, математика, механика. (Russian) [Scientific and technical literature of the world. An annotated directory of periodical and serial publications. Vol. I: Astronomy, geodesy, mathematics, mechanics] *Akad. Nauk SSSR Inst. Naucn. Informacii, Moscow,* 1968. 300 *pp. (errata insert)* 38 #5546

* Математико-экономические методы и модели. Применение математических методов и электронных вычислительных машин в планировании и технико-экономических задачах. Библиографический указатель (Июнь 1963 г.-декабрь 1966 г.). (Russian) [Mathematical-economical methods and models. Application of mathematical methods and electronic computers in planning and technical-economical problems. Bibliography (June, 1963-December, 1966)] Compiled by I. A. Lifšic, I. V. Romanovskiĭ, A. A. Korbut and T. G. Fursa. Edited by I. V. Romanovskiĭ. Academy of Sciences of the USSR. Leningrad Branch of the Steklov Institute of Mathematics. The Library of the Academy of Sciences of the USSR. *Izdat. "Nauka", Leningrad,* 1968. 314 *pp. (errata insert)* (Editors) 39 #3797

(The sign } indicates an entry in the supplement.)

* Abhandlungen aus Zahlentheorie und Analysis. Zur Erinnerung and Edmund Landau (1877-1938). Herausgegeben von Paul Turán. *VEB Deutscher Verlag der Wissenschaften, Berlin; Plenum Press, New York,* 1968. 355 *pp.* (Editors) 41 #3200a

Bibliography of the works of A. M. Wstrowski. *Aequationes Math.* 2 (1968), *no.* 1, 3-11. (Editors) 37 #6154

Dr. Siegfried Guber. *Rev. Roumaine Math. Pures Appl.* 13 (1968), 1479-1480. (Editors) 39 #3956

Selected bibliography of Gerhard Tintner. *Economic Models, Estimation and Risk Programming (Essays in Honor of Gerhand Tintner), pp.* 456-461. *Springer, Berlin,* 1969. (Editors) 40 #1251

* Математика в СССР 1958-1967 в двух томах. Том второй: Биобиблиография. Вып 1: А-Л. (Russian) [Mathematics in the USSR 1958-1967 in two volumes. Vol. II: Biobibliography. No. 1: A-L] Edited under the auspices of the Moscow Mathematical Society by S. V. Fomin and G. E. Šilov. *Izdat. "Nauka", Moscow,* 1969. 816 *pp.* (From the editors' introduction) 40 #4048

* Систематический указатель к "Ученым запискам Московского университета" (1833-1961). (Russian) [Systematic index to "Učenye Zapiski Moskovskogo Universiteta" (1833-1961)] *Izdat. Moskov. Univ. Moscow,* 1969. 176 *pp. (errata insert)* (Editors) 41 #1467

* Number theory and analysis. A collection of papers in honor or Edmund Landau (1877-1938). Edited by Paul Turán. *Plenum Press, New York; VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 355 *pp.* (Editors) 41 #3200b

* А. И. Гусейнов: Библиография. (Russian) [A. I. Guseĭnov: Bibliography] *Izdat. "Élm", Baku,* 1969. 51 *pp.* (Editors) 41 #3227

Additions and corrections to the bibliography of the works of A. M. Ostrowski. *Aequationes Math.* 3 (1969), 313. (From the introduction) 41 5178

Dmitriĭ Matveevič Smirnov. On his fiftieth birthday. (Russian) *Algebra i Logika* 8 (1969), 493-496. (1 *plate*) (Editors) 42 #4373

Bibliography of journal articles. (Russian) *Differencial'nye Uravnenija* 5 (1969), 581-588. (Editors) 39 #2569

Il'ja Nestorovič Vekua. (Georgian and Russian) *V. I. Lenin. Sakharth. Politekh. Inst. Šrom.* 1969, *no.* 5 (k33), 5-18. (1 *plate*) (Editors) 43 #4619

* Differential games: Theory and applications. A Symposium of the American Automatic Control Council. 1970 (Eleventh) Joint Automatic Control Conference (Georgia Institute of Technology, Atlanta, Ga., June 26, 1970). *The American Society of Mechanical Engineers, New York,* 1970. *iv* + 143 *pp.* (Editors) 41 #8049

* Развитие науки в советском Азербайджане (1920-1970): Библиография--Совит Азербаjчанында елмин инкишафы (1920-1970): Бибвиография. (Russian and Azerbaijani) [Development of science in Soviet Azerbaijan (1920-1970): A bibliography] *Izdat. "Elm", Baku,* 1970. 147 *pp.* (Editors) 42 #2906

* Видання Академий Наук УРСР (1919-1967): Физико-технични та математични науки. Библиографичний покажчик. (Ukrainian) [Publications of the Academy of Sciences of the Ukrainian SSR (1919-1967): Physics, engineering and mathematics. A bibliography] Central Science Library of the Academy of Sciences of the Ukrainian SSR. *Vidavn. "Naukova Dumka", Kiev,* 1970. 783 *pp.* (Editors) 42 #1632

* Кибирнетика и вычислчтельная техника на Украине. Библиографический указатель. Часть 1: Теоретическая кибернетика и вычислительные методы. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 1: Theoretical cybernetics and computing methods] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 261 *pp.* (Editors) 43 #1788a

* Кибирнетика и вычислительная техника на Украине. Библиографический указатель. Часть 2: Техническая кибернетика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 2: Engineering cybernetics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka". Kiev,* 1970. 220 *pp.* (Editors) 43 #1788b

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 3: Математическое моделирование и специализированная вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 3: Mathematical simulation and specialized computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka". Kiev,* 1970. 178 *pp.* (Editors) 43 #1788c

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 4: Вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 4: Computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 179 *pp.* (Editors) 43 #1788d

* Кибернетика и вычислительная техника на Украине. Библитграфический указатель. Часть 5: Экономическая кибирнетика и системотехника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 5: Economic cybernetics and systems theory] Compiled by. P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 201 *pp.* (Editors) 43 #1788e

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 6: Биологическая и медицинска кибернетика, бионика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 6: Biological and medical cybernetics, bionics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 114 *pp.* (Editors) 43 #1788f

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963) Авторско-библиографический указатель к десятилетнему комплекту *RŽ "Matematika".* Том. II: Латинский алфавит А-К. (Russian) [Referativnyĭ Žurnal: World mathematics for 10 years (1953-1963) Author-bibliographic index for a ten-year run of *RŽ "Matematika".* Vol. II: Latin alphabet A-K] Academy of Sciences of the USSR. Institute of Scientific and Technical Information. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 792 *pp. (2 errata inserts)* (Editors) 43 #6033

Academician György Alexits is 70 year old. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 19 (1970), 1-4. (Editors) 40 #4071

Ottó Varga (1909-1969). (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 19 (1970), 193-195. (Editors) 40 #7080

List of the principal works of V. S. Čarin. (Russian) *Mat. Zametki* 7 (1970), 5-6. (Editors) 41 #21

* M.C. publications, 1946-1971. Part 1: Bibliography and auth index. *Mathematical Centre, Amsterdam,* 1971. vii + 190 *pp.* (Editors) 43 #3066a

* M.C. publications, 1946-1971. Part 2: KWIC index. *Mathematical Centre, Amsterdam,* 1971. ii + 121 *pp.* (Editors) 43 #3066b

* Систематический указатель статей, опубликованных в журнальных изданиях Института Математики АН УССР (1934-1968 гг.). (Russian) [A systematic bibliography of articles that were published in periodical publications of the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR (1934-1968)] Compiled by M. N. Kreknina. Edited by E. Ja. Remez. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1971. 151 *pp.* (Editors) 44 #3

Papers by Harold Davenport. *Acta Arith.* 18 (1971), 19-28. (Editors) 44 #2558d

Rényi Alfréd, 1921-1970. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 20 (1971), 1-12. (Editors) 43 #6046

Bibliography: Arthur Byron Coble
(See Mattuck, Arthur, 41 #19)

Bibliography: Bohumil Bydžovský
(See Šindelář, Karel, 41 #20)

Bibliography: Competitive bidding
(See Stark, Robert M., 43 #1600)

Bibliography: Differential equations
(See Šakun, A. R., 38 #2356b-c and 39 #5287)

Bibliography: Discrete distributions
(See Patil, Ganapati P.; Joshi, Sharadchandra W., 44 #4)

Bibliography: Functional equations
(See Aczél, S., 41 #4042)

Bibliography: G. N. Tjurina
(See Arnol'd, V. I.; Gel'fand, I. M.; Manin, Ju. I.; Moĭšezon, B. G.; Novikov, S. P.; Šafarevič, I. R., 44 #6430)

Bibliography: Generalized matrix inverses
(See Lewis, T. O.; Boullion, T. L.; Odell, P. L., 40 #1404)

Bibliography: Graph theory
(See Zykov, A. A., 41 #3317; Lang, Rainer, 39 #2644; Turner, James, 41 #3318; Deo, Narsingh, 41 #3319 and Turner, James; Kautz, William H., 42 #2973)

Bibliography: Giuseppe Pompilj
(See Dall'Aglio, Giorgio; Lombardo-Radice, Lucio, 40 #5401)

Bibliography: L. D. Landau
(See Kapica, P. L.; Lifšic, E. M., 41 #18)

Bibliography: L. E. J. Brouwer
(See Kreisel, G.; Newman, M. H. A., 40 #5403)

Bibliography: L. Špaček
(See Polášek, Jan, 40 #4068)

Bibliography: Leonard Roth
(See Togliatti, E., 41 #5177)

Bibliography: Luigi Merli
(See Sestini, Giorgio, 44 #5204)

Bibliography: M. A. Lavrent'ev
(See Aleksandrov, P. S.; Ovsjannikov, L. V.; Šabat, B. V., 44 #5202 and Vakulenko, L. D., 44 #5203d)

Bibliography: Marcel Riesz
(See Gárding, Lars, 41 #1493)

Bibliography: O. Borůvka
(See Ráb, Miloš, 40 #4069)

Bibliography: R. Lobatto
(See Wolf, H. J., 42 #7475)

Bibliography: Ricardo San Juan
(See Ríos, Sixto, 42 #5768)

Bibliography: Russian astronomical literature
(See Lavrova, N. B., 40 #7063)

Bibliography: Thomas Henry Havelock
(See Roberts, P. H., 41 #5175)

Bibliography: W. Blaschke
(See Sperner, Emanuel, 40 #2509)

Bibliography of Bulgarian works on mathematics 1944-1966
* Bibliografija na b"lgarskata matematika 1944-1966. (Bulgarian) [Bibliography of Bulgarian works on mathematics 1944-1966] Compiled by S. Butleva, J. Părvanova, A. Stojanova, E. Furnadžieva, under the direction of D. Vačov. *Institute of Mathematics with Computing Centre of the Bulgarian Academy of Sciences; Cyril and Methodius National Library, Sofia,* 1967. 238 *pp.* (Editors) 40 #2485

Bibliography for control of objects with distributed parameters
(See Wypych, Arkadiusz, 44 #3732)

Bibliography on design of experiments
(See Herzberg, Agnes M.; Cox, D. R., 39 #7762)

Bibliography for dynamical topology
(See Gottschalk, Walter H., 41 #2655)

Bibliography on the history of astronomy in the USSR during 1965-1968
(See Lavrova, N. B.; Kulikovskiĭ, P. G., 40 #5400)

Bibliography on *H*-spaces
(See James, I. M., 43 #6922)

Bibliography of journal articles
Bibliography of journal articles. (Russian) *Differencial'nye Uravnenija* 5 (1969), 581-588. (Editors) 39 #2569

Bibliography of Kurt Gödel
Bibliography of Kurt Gödel. *Foundations of Mathematics (Symposium Commemorating Kurt Gödel, Columbus, Ohio,* 1966), *pp.* xi-xii. *Springer, New York,* 1969. (Editors) 39 #2592

Bibliography of non-euclidean geometry
(See Sommerville, D. M. Y., 42 #5773)

Bibliography of papers of A. N. Kolmogorov
Bibliography of papers of A. N. Kolmogorov published in 1953-1962. (Russian) *Uspehi Mat. Nauk* 18 (1963), *no.* 5 (113), 121-123. 29 #3346

Bibliography on proving the correctness of computer programs
(See London, Ralph L., 41 #2975)

Bibliography of scientific works
(See Rényi, Kató, 40 #5404 and Varga, Ottó, 40 #5406)

Bibliography of the scientific works of I. N. Vekua
Bibliography of the scientific works of I. N. Vekua. (Russian) *Sakharth. SSR Mecn. Akad. Math. Inst. Šrom.* 33 (1967), 9-14. (Editors) 37 #1222
Bibliography of the scientific works of I. N. Vekua. (Russian) *Thbilis. Saḫelmç. Univ. Šrom. Mekh.-Math. Mecn. Ser.* 129 (1968), 9-16. 40 #4072

Bibliography of scientific works of Arnold Walfisz
Bibliography of scientific works of Arnold Walfisz. *Acta Arith.* 10 (1964), 239-244. (Editors) 30 #1025c

Bibliography of statistical bibliographies
(See Lancaster, H. O., 39 #3625)

Bibliography of statistical literature
(See Kendall, Maurice G.; Doig, Alison G., 41 #2809 and 41 #2810)

Bibliography on the theory of collective risk and related subjects
(See Philipson, Carl, 39 #7699)

Bibliography of theory of stability and control for distributed parameter systems
(See Wang, P. K. C., 37 #3856)

Bibliography on time series and stochastic processes
* Bibliography on time series and stochastic processes. Edited by Herman O. A. Wold. *M. I. T. Press, Cambridge, Mass.,* 1966. xv + 516 *pp.* (C.-T. Shih) 34 #8467

Bibliography for topological dynamics
(See Gottschalk, Walter H., 36 #7126)

Bibliography of Ukrainian mathematics
* Ukraīns'ka matematična bīblīografīja (1917-1960). (Ukrainian) [Bibliography of Ukrainian mathematics (1917-1960)] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Vidavnictvo Akad. Nauk URSR, Kiev,* 1963. 382 *pp.* 35 #4067; erratum, 36, p. 1567

Bibliography on the use of computers in mathematical research
Bibliography on the use of computers in mathematical research. *Computers in Mathematical Research, pp.* 172-185. *North-Holland, Amsterdam,* 1968. 38 #2974

Bibliography of Norbert Wiener
Bibliography of Norbert Wiener. *Bull. Amer. Math. Soc.* 72 (1966), *no.* 1, *pt.* 2, 135-145. (Editors) 32 #1084

Bifurcation theory and nonlinear eigenvalue problems
* Bifurcation theory and nonlinear eigenvalue problems. Edited by Joseph B. Keller and Stuart Antman. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. xiv + 434 *pp.* (Editors) 39 #2555

Biographical memoirs of Fellows of the Royal Society
* Biographical memoirs of Fellows of the Royal Society. Vol. 15. *The Royal Society, London,* 1969. iii + 266 *pp.* (13 *plates; errata insert)* (Editors) 41 #22

Biographical note
Arnold Walfisz (1892-1962). A biographical note. *Acta Arith.* 10 (1964), 225. (1 *plate*) (Editors) 30 #1025a

Biography
V. D. Kupradze. (Russian) *Gruzin. Politehn. Inst. Trudy* 1963, *no.* 8 (93), vii-viii. (Editors) 31 #2119
Academician professor Gheorghe Vrănceanu at 70 years of age. (Romanian) *An. Univ. Bucureşti Mat.-Mec.* 19 (1970), *no.* 2, 7-8. (Editors) 44 #6437
Oystein Ore (1899-1968). *J. Combinatorial Theory* 8 (1970), i-iii. (Editors) 40 #4073

Biography: Carl Friedrich Gauss
(See Hall, Tord, 42 #22)

Biography: Vojtěch Jarník
(See Kurzweil, Jaroslav; Novák, Břetislav, 44 #6433a-b)

Biological cybernetics
* Кибернетика и вычислительная техника. Вып 4: Биологическая кибернетика. (Russian) [Cybernetics and computer technology. No. 4: Biological cybernetics] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1970. 240 *pp.* (Editors) 44 #3753

Biological and medical cybernetics, bionics
* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 6: Биологическая и медицинская кибернетика, бионика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 6: Biological and medical cybernetics, bionics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 114 *pp.* (Editors) 43 #1788f

Biometrics
* Vorträge der II. Ungarischen Biometrischen Konferenz (Budapest, vom 19. bis 22. März 1968). Herausgegeben von I. Juvancz. *Akadémiai Kiado, Budapest,* 1970. 487 *pp.* 43 #4215

Biometrika tables for statisticians
* Biometrika tables for statisticians. Vol. I. Edited by E. S. Pearson and H. O. Hartley. Third edition. *Published for the Biometrika Trustees by the Cambridge University Press, London-New York-Ibadan,* 1966. xvi + 264 *pp. (pocket with scales attached)* (D. M. Sandelius) 34 #8535

Birthday of P. S. Aleksandrov
On the seventieth birthday of Pavel Sergeevič Aleksandrov. (Russian) *Uspehi Mat. Nauk* 26 (1971), *no.* 3 (159), 219. (1 *plate*) 44 #6438

Blanch anniversary volume
* Blanch anniversary volume. A series of papers presented on the occasion of her retirement by the friends of Gertrude Blanch. Edited by Bertram Mond. *Aerospace Research Laboratories, Office of Aerospace Research, United States Air Force, Washington, D. C.,* 1967. v + 379 *pp.* (Editors) 35 #1423

Bombay Colloquium

* Algebraic geometry. Papers presented at the Bombay Colloquium, 1968. Tata Institute of Fundamental Research Studies in Mathematics, No. 4. *Published for the Tata Institute of Fundamental Research, Bombay; Oxford University Press, London,* 1969. viii + 426 *pp.* (Editors) 40 #5611

Boulder Summer Institute of Theoretical Physics

* Lectures in theoretical physics. Vol. VI. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1963. *The University of Colorado Press, Boulder, Colo.,* 1964. ix + 516 *pp.* (Editors) 29 #4419

* Lectures in theoretical physics. Vol. VII A. Lorentz group. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1964. Edited by Wesley E. Brittin and Asim O. Barut. *The University of Colorado Press, Boulder, Colo.,* 1965. viii + 386 *pp.* (Editors) 32 #2037

* Lectures in theoretical physics. Vol. VIII B: Fundamental particles and high energy physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. viii + 428 *pp.* (Editors) 34 #5403

* Lectures in theoretical physics. Vol. VIII A: Statistical physics and solid state physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. vi + 355 *pp.* (Editors) 34 #5457

* Lectures in theoretical physics. Vol. IXA: Mathematical methods of theoretical physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin, Asim O. Barut and Marcel Guenin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. ix + 400 *pp.* (Editors) 38 #5433a

* Lecutres in theoretical physics. Vol. IXB: High energy and particle physics. Lecutres delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin and Asim O. Barut. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xi + 436 *pp.* (Editors) 38 #5433b

* Lectures in theoretical physics. Vol. IXC: Kinetic theory. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xii + 791 *pp.* (Editors) 38 #5433c

* Lectures in theoretical physics. Vol. XA: Quantum theory and statistical physics. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. x + 573 *pp.* (Editors) 38 #4099a

* Lecutres in theoretical physics. Vol. XB: High energy physics and fundamental particles. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. xiii + 708 *pp.* (Editors) 38 #4099b

Boundary problems for differential equations

* Proceedings of the Steklov Institute of Mathematics, No. 91 (1967): Boundary problems for differential equations. Edited by V. P. Mihaĭlov. Translated from the Russian by Andrew Yablonsky. *American Mathematical Society, Providence, R. I.,* 1969. vi + 178 *pp.* (Editors) 40 #4047

* Proceedings of the Steklov Institute of Mathematics, No. 103 (1967): Boundary problems for differential equations. II. Edited by V. P. Mihaĭlov. Translated form the Russian by T. Garrett. *American Mathematical Society, Providence, R. I.,* 1970. viii + 213 *pp.* (Editors) 41 #6643; erratum, 42, p. 1824

Boundary value problems

* Исследования по краевым задачам теории функций и дифференциавьных уравнений. (Russian) [Studies in boundary value problems of the theory of functions and differential equations]. Academy of Sciences of the Tajik SSR. Department of Physics and Mathematics. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1964. 138 *pp.* (Editors) 36 #524

* Исследования по краевым задачам теории функций и дифференциальных уравнений. (Russian) [Studies in boundary value problems of the theory of functions and differential equations] Academy of Sciences of the Tajik SSR. S. U. Umarov Institute of Physics and Technology. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1965. 128 *pp.* (Editors) 33 #1193

* Problems in mathematical analysis. Vol. 1. Boundary value problems and integral equations. Edited by V. I. Smirnov. Translated from the Russian. *Consultants Bureau, New York,* 1968. ii + 150 *pp.* (Editors) 38 #4793

Boundary value problems for differential equations

* Краевые задачи для дифференциальных уравнений. 1. (Russian [Boundary value problems for differential equations. 1] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1971. 154 *pp.* (Editors) 44 #3009

Boundary value problems and integral equations

* Проблемы математического анализа. Краевые задачи и интегральные уравнения. (Russian) [Problems of mathematical analysis. Boundary value problems and integral equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ., Leningrad,* 1966. 166 *pp.* (Editors) 34 #6279

Boundary value problems of mathematical physics

(See Solonnikov, V. A., 35 #1965)

* Proceedings of the Steklov Institute of Mathematics. No. 83 (1965): Boundary value problems of mathematical physics. III. Edited by O. A. Ladyženskaja. Translated from the Russian by A. Jablonskiĭ. *American Mathematical Society, Providence, R. I.,* 1967. iv + 184 *pp.* (Editors) 35 #1966

* Proceedings of the Steklov Institute of Mathematics, No. 92 (1966): Boundary value problems of mathematical physics. IV. Edited by O. A. Layženskaja. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.,* 1968. iv + 339 *pp.* (Editors) 37 #6143

* Proceedings of the Steklov Institute of Mathematics, No. 102 (1967): Boundary value problems of mathematical physics. V. Edited by O. A. Layženskaja. Translated from the Russian by V. I. Filippenko. *American Mathematical Society, Providence, R. I* 1970. v + 185 *pp.* (Editors) 42 #1628

Boundary value problems of mathematical physics and related aspects of function theory

* Boundary value problems of mathematical physics and related aspects of function theory. Part I. Edited by V. P. Il′in. Translated from the Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 5. *Consultants Bureau, New York,* 1969. vii + 96 *pp.* (Editors) 39 #1257

Boundary-value problems in the theory of functions of a complex variabl

* Краевыи задачи теории функций комплексного переменного. (Russian) [Boundary-value problems in the theory of functions of a complex variable] *Izdat. Kazan. Univ., Kazan,* 1962. 80 *pp.* (Editors) 29 #3614

Brandeis Summer Institute

* Astrophysics and the many-body problem. Brandeis Summer Institute, 1962, Vol. 2. Lectures by E. N. Parker, J. S. Goldstei A. A. Maradudin, V. Ambegaokar. Notes by M. Turoff, A. Skalafuris B. Bergerson. *W. A. Benjamin, Inc., New York-Amsterdam,* 1963. vii + 438 *pp.* (M. MacGregor) 31 #1096

* Lectures on particles and field theory. Brandeis Summer Institute in Theoretical Physics, 1964, Vol. 2. Lectures by K. Johnson, D. B. Lichtenberg, J. Schwinger, S. Weinberg. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1965. vii + 485 *pp.* (Editors) 32 #2070

* Particle symmetries and axiomatic field theory. Vol. 1: Axiomatic field theory. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 516 *pp.* (Editors) 34 #3887a

* Particle symmetries and axiomatic field theory. Vol. 2: Particle symmetries. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 691 *pp.* (Editors) 34 #3887b

Briefwechsel zwischen Leibniz und Christian Wolff

* Briefwechsel zwischen Leibniz und Christian Wolff. Aus den Handschriften der Koeniglichen Bibliothek zu Hannover. Herausgegeben von C. I. Gerhardt. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1963. *iv* + 188 *pp.* *(1 insert)* (C. J. Scriba) 29 #1131

British Association for the Advancement of Science. Mathematical Tables

* British Association for the Advancement of Science. Mathematical Tables, Volume IV: Cycles of reduced ideals in quadratic fields. Prepared by E. L. Ince on behalf of the British Association Committee for the Calculation of Mathematical Tables. *Published for the Royal Society at the Cambridge University Press, London,* 1966. xvi + 80 *pp.* (Editors) 36 #6382

Bulgarian-Russian polytechnical dictionary

* Болгарско-русский политехнический словарь. (Russian) [Bulgarian-Russian polytechnical dictionary] *Izdat. "Sovetskaja Enciklopedija", Moscow,* 1968. 560 *pp.* (Editors) 41 #1468

Bulletin of the Kiev University

* Вестник Киевского Университета: Специальный выпуск научных статей ученых Киевского и Лейпзигского Университетов. (Russian) [Bulletin of the Kiev University: Special issue of the Kiev and Leipzig Universities] *Izdat. Kiev. Univ., Kiev,* 1967. 167 *pp.* (Editors) 35 #1424

C.B.R.M. See Centre Belge de Recherches Mathématiques.

C. I. M. E. See Centro Internazionale Matematico Estivo.

Cahiers mathématiques

* Cahiers mathématiques. III: Morceaux choisis d'algèbre et de combinatoire pour les sciences humaines. Mathématiques et Sciences de l'Homme, XIII. *Éditions Gauthier-Villars; Éditions Mouton, Paris,* 1970. vi + 106 *pp.* (Editors) 42 #1624

Calculating apparatus

On the history of calculating apparatus. (Collected from materials in the archive of the Academy of Sciences of the USSR). (Russian) *Istor.-Mat. Issled. No.* 14 (1961), 551-586. (Editors) 32 #27

Calculi of symbolic logic

* Proceedings of the Steklov Institute of Mathematics, No. 98 (1968): The calculi of symbolic logic. I. Edited by V. P. Orevkov. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.,* 1971. iv + 229 *pp.* (Editors) 43 #4620

Calculus of variations, classical and modern

* Calculus of variations, classical and modern. 1° Ciclo, Bressanone 10 - 18 giugno, 1966. Centro Internazionale Matematico Estivo (C.I.M.E.). *Edizioni Cremonese, Rome,* 1967. 369 *pp.* (Editors) 35 #3515

Candidates' Science Survey Conference

* Итоговая научная аспирантская конференция за 1965 год: Математика. Механика. (Russian) [Candidates' science survey conference for 1965: Mathematics. Mechanics] V. I. Ul'janov-Lenin Kazan State University. *Izdat. Kazan. Univ., Kazan,* 1967. 92 *pp.* (Editors) 36 #3614

Candidates' Works, Math., Mech., Phys.

* Сборник аспирантских работ. Математика. Механика. Физика. (Russian) [Collection of candidates' works. Mathematics. Mechanics. Physics. *Izdat. Kazan. Univ., Kazan,* 1964. 156 *pp.* (Editors) 32 #2290

* Сборник аспирантских работ. Математика. Механика. Физика. (Russian) [Collection of candidates' works. Mathematics. Mechanics. Physics] Edited by B. M. Gagaev. *Izdat. Kazan. Univ., Kazan,* 1964. 181 *pp.* (Editors) 38 #1971

* Сборник аспирантских работ. Математика. (Russian) [Collection of candidates' works. Mathematics] *Izdat. Kazan. Univ., Kazan,* 1966. 108 *pp.* (Editors) 36 #4937

Cargèse lectures in theoretical physics

* Cargèse Lectures in Theoretical Physics: Application of mathematics to problems in theoretical physics. Edited by F. Lurçat. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. viii + 507 *pp.* (Editors) 37 #1125

Categorical algebra

* Proceedings of the Conference on Categorical Algebra, La Jolla, Calif., 1965. Edited by S. Ellenberg, D. K. Harrison, S. MacLane and H. Röhrl. *Springer-Verlag New York, Inc., New York,* 1966. viii + 562 *pp.* (Editors) 34 #2646

* Applications of categorical algebra. Proceedings of Symposia in Pure Mathematics, Vol. XVII. Edited by Alex Heller. *American Mathematical Society, Providence, R. I.,* 1970. v + 231 *pp.* (Editors) 40 #5372

Categorical homology theory

* Seminar on triples and categorical homology theory (ETH 1966/67). Edited by B. Eckmann. Lecture Notes in Mathematics, No. 80. *Springer-Verlag, Berlin-New York,* 1969. iv + 398 *pp.* (Editors) 39 #1511

Catégories non-abéliennes

* Catégories non-abéliennes. Suivi de textes de Tudor Ganea, Heinrich Kleisli, J.-M. Maranda et Howard Osborn. Deuxième édition multigraphiée. Séminaire de Mathématiques Supérieures, No. 10 (Été, 1964). *Les Presses de l'Université de Montréal, Montreal, Que.,* 1967. 148 *pp.* (Editors) 39 #5648

Category

* Reports of the Midwest Category Seminar. Lecture Notes in Mathematics, No. 47. *Springer-Verlag, Berlin-New York,* 1967. iii + 181 *pp.* (Editors) 36 #3840

* Reports of the Midwest Category Seminar. II. Edited by S. MacLane. Lecture Notes in Mathematics, No. 61. *Springer-Verlag, Berlin-New York,* 1968. iii + 91 *pp.* (Editors) 37 #6341

* Reports of the Midwest Category Seminar. III. Edited by S. MacLane. Lecture Notes in Mathematics, No. 106. *Springer-Verlag, Berlin-New York,* 1969. iii + 247 *pp.* (Editors) 40 #2722

* Reports of the Midwest Category Seminar. IV. Edited by S. MacLane. Lecture Notes in Mathematics, Vol. 137. *Springer-Verlag, Berlin-New York,* 1970. iii + 139 *pp.* (Editors) 41 #8487

* Reports of the Midwest Category Seminar. V. Edited by J. W. Gray and S. MacLane. Lecture Notes in Mathematics, Vol. 195. *Springer-Verlag, Berlin-New York,* 1971. iii + 255 *pp.* (Editors) 43 #4873

Category theory, homology theory and their applications

* Category theory, homology theory and their applications. I. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. One. Edited by P. Hilton. Lecture Notes in Mathematics, No. 86. *Springer-Verlag, Berlin-New York,* 1969. vi + 216 *pp.* (Editors) 39 #2831

* Category theory, homology theory and their applications. II. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. Two. Edited by P. Hilton. Lecture Notes in Mathematics, 92. *Springer-Verlag, Berlin-New York,* 1969. v + 308 *pp.* (Editors) 39 #2832

* Category theory, homology theory and their applications. III. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. Three. Edited by P. Hilton. Lecture Notes in Mathematics, No. 99. *Springer-Verlag, Berlin-New York,* 1969. iv + 489 *pp.* (Editors) 39 #2833

Cavitation in real liquids

* Cavitation in real liquids. Proceedings of the Symposium on Cavitation in Real Liquids, General Motors Research Laboratories, Warren, Michigan, 1962. Edited by Robert Davies. *Elsevier Publ. Co., Amsterdam-London-New York,* 1964. ix + 189 *pp.* (Editors) 30 #1683

Celebrazioni Archimedee

* Celebrazioni Archimedee del Sec. XX, 11-16 aprile 1961. Vol. III: Simposio di meccanica e matematica applicata. *Edizioni "Oderisi", Gubbio,* 1962. ii + 188 *pp.* (Editors) 31 #2

* Conferenze generali e simposio di geometria differenziale. Dedicato ai simposi delle "Celebrazioni archimedee de secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 6 (1961/62). *Seminario Matematico dell'Università, Messina,* 1962. ii + 190 *pp.* (Editors) 39 #6703a

* Simposio di analisi. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 7 (1962/63). *Seminario Matematico dell'Università, Messina,* 1963. i + 108 *pp.* (Editors) 39 #6703b

* Simposio di meccanica e matematica applicata. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 8 (1963/64). *Seminario Matematico dell'Università, Messina,* 1964. i + 188 *pp.* (Editors) 39 #6703c

* Simposio di Topologia. A cura dell'Università di Messina, 27-30 Aprile, 1964. Città di Siracusa Celebrazioni Archmedee del Sec. XX. Simposi del 1964. Vol. I. *Edizioni Oderisi, Gubbio,* 1965. ii + 113 *pp.* (Editors) 36 #4

Celestial ballistics

* Аналитическая механика. Устойчивость движения. Небесная баллистика. Труды II всесоюзного с"езда по теоретической и прикладной механике (29 января-5февраля 1964 г.). Обзорные доквады. Вып. I. (Russian) [Analytic mechanics. Stability of motion. Celestial ballistics. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports. Vol. I] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur'e and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 214 *pp.* *(errata insert)* (Editors) 34 #2a

Celestial mechanics

* Качественные методы в теории обыкновенных дифференциальных уравнений и небесной механике. (Russian) [Qualitative methods in the theory of ordinary differential equations and celestial mechanics] Abstracts of reports and papers presented at a Symposium sponsored by the Astronomy Council of the Academy of Sciences of the USSR, the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR and the Institute of Mathematics with Computing Center of the Moldavian SSR. *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 57 *pp.* (Editors) 40 #4529

Celestial mechanics and astrodynamics

* Celestial mechanics and astrodynamics. Edited by Victor G. Szebehely. Progress in Astronautics and Aeronautics, Vol. 14. *Academic Press, New York-London,* 1964. xix + 744 *pp.* (Editors) 32 #3814

Čeljabinsk State Pedagogical Institute

* Сборник статей по математике. Выпуск I. Часть 1. (Russian) [Collection of mathematical papers. No. I. Part 1] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk,* 1965. 156 *pp.* (Editors) 35 #1426

* Сборник статей по математике. Вып. I. Часть 2. (Russian) [Collection of mathematical papers. No. I. Part 2] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk,* 1966. 155 *pp.* *(errata insert)* (Editors) 39 #5284

Centre Belge de Recherches Mathématiques. (C.B.R.M.)

* Colloque sur la Théorie des Groupes Algébriques. Tenu à Bruxelles du 5 au 7 juin, 1962. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris;* 1962. 150 *pp.* (Editors) 31 #1253

Centre National de la Recherche Scientifique, Colloques Internationaux. See Colloques Internationaux du Centre National de la Recherche Scientifique.

Centro Internazionale Matematico Estivo (C.I.M.E.)

* Equazioni differenziali astratte. Centro Internazionale Matematico Estivo (C.I.M.E.). 1° Ciclo, Varenna, Villa Monastero, 30 maggio-8 giugno, 1963. *Edizioni Cremonese, Rome,* 1964. 250 *pp. (not consecutively paged)* (Editors) 36 #6755

* Funzioni e varietà complesse. Centro Internazionale Matematico Estivo (C.I.M.E.). 2° Ciclo, Varenna, Villa Monastero, 25 giugno-5 luglio, 1963. *Edizioni Cremonses, Rome,* 1964. 280 *pp. (not consecutively paged)* (Editors) 36 #6645

* Alcune questioni di analisi numerica. Centro Internazionale Matematico Estivo (C.I.M.E.). IV Ciclo, Perugia, 7-16 settembre, 1964, diretto dal Aldo Ghezzetti. *Edizioni Cremonese, Rome,* 1965. 419 *pp.* (Editors) 36 #7290

* Equazioni differenziali non-lineari. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, Varenna (Como), 31 agosto-8settembre, 1964, diretto dal Guido Stampacchia. *Edizioni Cremonese, Rome,* 1966. 357 *pp.* (Editors) 36 #6756

* Non linear continuum theories. Centro Internazionale Matematico Estivo (C.I.M.E.). I Ciclo, Bressanone, 31 maggio-9 giugno, 1965, diretto dai C. Truesdell e G. Grioli. *Edizioni Cremonese, Rome,* 1966. 358 *pp.* (Editors) 36 #7370

* Some aspects of ring theory. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Varenna (Como), 23-31 agosto, 1965, diretto dal I. N. Herstein. *Edizioni Cremonese, Rome,* 1966. 246 *pp.* (Editors) 36 #6441

* Calculus of variations, classical and modern. 1° Ciclo, Bressanone 10-18 giugno, 1966. Centro Internazionale Matematico Estivo (C.I.M.E.). *Edizioni Cremonese, Rome,* 1967. 369 *pp.* (Editors) 35 #3515

* Classi caratteristiche e questioni connesse. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, L'Aquila, 2-10 settembre, 1966. Coordinatore, E. Martinelli. *Edizioni Cremonese, Rome,* 1967. ii + 218 *pp.* (Editors) 36 #5959

* Geometry of homogeneous bounded domains. Centro Internazionale Matematico Estivo. III Ciclo, Urbino, 3-13 luglio, 1967. Diretto dal Edoardo Vesentini. *Edizioni Cremonese, Rome,* 1968. i + 307 *pp.* (Editors) 38 #2338

* Numerical analysis of partial differential equations. Centro Internazionale Matematico Estivo (C.I.M.E.), 2° Ciclo, Ispra (Varese), 3-11 luglio, 1967. Coordinatore: J. L. Lions. *Edizioni Cremonese, Rome,* 1968. 468 *pp.* (Editors) 39 #2343

* Potential theory. Cento Internazionale Matematico Estivo (C.I.M.E.). I Ciclo, Stresa, 2-10 luglio, 1969. Coordinatore: M. Brelot. *Edizioni Cremonese, Rome,* 1970. ii + 248 *pp.* (Editors) 42 #6261

* Questions on algebraic varieties. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, Varenna, 7-17 settembre 1969. Coordinatore: E. Marchionna. *Edizioni Cremonese, Rome,* 1970. ii + 343 *pp.* (Editors) 42 #5988

Certain applications of the theory of binary relations

* Некоторые приложения теории бинарных отношений. (Russian) [Certain applications of the theory of binary relations] *Izdat. Saratov. Univ., Saratov,* 1966. 16 *pp.* (Editors) 33 #3969

Certain problems of applied mathematics

* Некоторые вопросы прикладной математики. Вып. 3. (Russian) [Certain problems of applied mathematics. No. 3] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev,* 1967. 432 *pp. (2 foldouts)* (Editors) 39 #3736

* Некоторые вопросы прикладной математики. Вып. 4. (Russian) [Certain problems of applied mathematics. No. 4] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 432 *pp.* (Editors) 41 #5137

Certain problems in differential equations

* Некоторые вопросы дифференциальных уравнений. (Russian) [Certain problems in differential equations] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. 146 *pp.* (Editors) 39 #3068

Certain problems in mathematics and mechanics

* Некоторые проблемы математики и механики. (Russian) [Certain problems in mathematics and mechanics] In honor of M. A. Lavrent′ev's sixtieth birthday. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1961. 268 *pp.* (Editors) 41 #6640

* Некоторые проблемы математики и механики. (Russain) [Certain problems of mathematics and mechanics] On the occasion of the seventieth birthday of Academician M. A. Lavrent′ev. Siberian Branch of the Academy of Sciences of the USSR. *Izdat. "Nauka", Leningrad,* 1970. 287 *pp.* (Editors) 44 #6422

Certain problems in numerical and applied mathematics

* Некоторые вопросы вычислительной и прикладной математики. (Russian) [Certain problems in numerical and applied mathematics] Edited by G. I. Marčuk. Academy of Sciences of the USSR, Siberian Branch. *Izdat. "Nauka", Sibirsk. Otdel., Novosibirsk,* 1966. 277 *pp.* (Editors) 35 #1425

Certain problems in the theory of fields

* Некоторыи вопросы теории полей. (Russian) [Certain problems in the theory of fields] Ministry of Higher and Intermediate Education of the RSFSR. N. G. Černyševskiĭ Saratov State Universit *Izdat. Saratov. Univ., Saratov,* 1964. 79 *pp.* (Editors) 34 #168

CETHEDEC

Tests non paramétriques. *Rev. CETHEDEC Cahier No.* 5 (1968), 3-124. (C. B. Bell) 40 #987

Chiu-chang suan-shu

* Neun Bücher arithmetischer Technik (Chiu-chang suan-shu). Ein chinesisches Rechenbuch für den praktischen Gebrauch aus der frühen Hanzeit (202 v. Chr. Bis 9 n. Chr.). Übersetzt aus dem Chinesischen und erläutert von Kurt Vogel. Ostwalds Klassiker der exakten Wissenschaften, Neue Folge, Band 4. *Friedr. Vieweg & So'n, Braunschweig,* 1968. 159 *pp.* (A. Kobori) 43 #4605

Sur le choix de quelques topologies sur un espace vectoriel ou un module

Sur le choix de quelques topologies sur un espace vectoriel ou un module. *Ann. Fac. Sci. Univ. Toulouse* (4) 29 (1965), 17-34 (1966). (Ky Fan) 36 #1951

Circuit and system theory

* Proceedings Third Annual Allerton Conference on Circuit and System Theory. Edited by M. E. Van Valkenburg. Conference held October 20, 21, 22, 1965, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory Group of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1965. xii + 929 *pp.* (Editors) 39 #6664

* Proceedings Fifth Annual Allerton Conference on Circuit and System Theory. Edited by J. B. Cruz, Jr. and T. N. Trick. Conference held October 4, 5, 6, 1967, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1967. xii + 814 *pp.* (Editors) 41 #8052

* Proceedings Sixth Annual Allerton Conference on Circuit and System Theory. Edited by T. N. Trick and R. T. Chien. Conference held October 2, 3, 4, 1968, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1968. xiii + 902 *pp.* (Editors) 41 #8053

* Proceedings Seventh Annual Allerton Conference on Circuit and System Theory. Edited by A. H. Haddad, G. Metze and T. N. Trick. Conference held October 8-10, 1969, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1969. xiv + 919 *pp.* (Editors) 41 #8054

Classi caratteristiche e questioni connesse

* Classi caratteristiche e questioni connesse. Centro Internazionale Matematico Esivo (C.I.M.E.). III Ciclo, L'Aquila, 2-10 settembre, 1966. Coordinatore, E. Martinelli. *Edizioni Cremonese, Rome,* 1967. ii + 218 *pp.* (Editors) 36 #5959

Classical and contagious discrete distributions

* Classical and contagious discrete distributions. Proceedings of the International Symposium held at McGill University, Montreal, Que., Canada, August 15-August 20, 1963, with the support of the Canadian Mathematical Congress, McGill University, and the National Research Council of Canada. Edited by Ganapati P. Patil. *Statistical Publishing Society, Calcutta (distributed by Pergamon Press, Oxford),* 1965. xiv + 552 *pp.* (Eiitors) 35 #2384

Codex Constantinopolitanus

* Codex Constantinopolitanus Palatii Veteris No. 1. Part One: Reproduction of the manuscript. Part Two: Greek text. Part Three: Translation and commentary. Edited by E. M. Bruins. *E. J. Brill, Leiden,* 1964. *Part One:* xii + 216 *pp.; Part Two:* vii + 151 *pp.; Part Three:* xii + 342 *pp. (2 plates)* (C. J. Scriba) 30 #1018

Cohomologie galoisienne des modules finis

* Cohomologie galoisienne des modules finis. Séminaire de l'Institut de Mathématiques de Lille, sous la direction de G. Poitou Travaux et Recherches Mathématiques, No. 13. *Dunod, Paris,* 1967. xviii + 279 *pp.* (Editors) 36 #2670

Collected papers of Emil Artin

* The collected papers of Emil Artin. Edited by Serge Lang and John T. Tate. *Addison-Wesley Publishing Co., Inc., Reading, Mass.-London,* 1965. xvi + 560 *pp. (2 plates)* (Editors) 31 #1159

Collected papers of Gerhard Gentzen

* The collected papers of Gerhard Gentzen. Edited by M. E. Szabo. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam-London,* 1969. xii + 388 *pp. (2 plates)* (J. R. Shoenfield) 41 #6660

Collected papers of G. H. Hardy

* Collected papers of G. H. Hardy (including joint papers with J. E. Littlewood and others). Vol. I. Edited by a committe appointed by the London Mathematical Society. *Clarendon Press, Oxford,* 1966. x + 700 *pp. (1 plate)* (A. Zygmund) 34 #1151

* Collected papers of G. H. Hardy (including joint papers with J. E. Littlewood and others). Vol. II. Edited by a committee appointed by the London Mathematical Society. *Clarendon Press, Oxford,* 1967. vii + 702 *pp. (1 plate)* (A. Zygmund) 39 #3958

* Collected papers of G. H. Hardy (including joint papers with J. E. Littlewood and others). Vol. III. Edited by a committee appointed by the London Mathematical Society. *Clarendon Press, Oxford,* 1969. viii + 748 *pp. (1 plate)* (A. Zygmund) 41 #24

* Collected papers of G. H. Hardy (including joint papers with J. E. Littlewood and others). Vol. IV. Edited by a committee appointed by the London Mathematical Society. *Clarendon Press, Oxford,* 1969. ix + 722 *pp. (1 plate)* (A. Zygmund) 44 #2561

Collected papers of L. D. Landau

* Collected papers of L. D. Landau. Edited and with an introduction by D. ter Haar. Second printing. *Gordon and Breach Science Publishers, New York-London-Paris,* 1967. xx + 836 *pp. (1 plate)* (Editors) 38 #5577

Collected works of Hidehiko Yamabe

* Collected works of Hidehiko Yamabe. Edited by Ralph P. Boas. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1967. xii + 142 *pp.* (Editors) 36 #6255

Collected works of J. H. and A. G. M. Michell

* The collected mathematical works of J. H. and A. G. M. Michell. Edited by F. W. Niedenfuhr and J. R. M. Radok, with a foreword by T. M. Cherry. *P. Noordhoff Ltd., Groningen,* 1964. 340 *pp. (2 plates)* (Editors) 31 #5788

Collection of candidates' works

* Збірник робіт аспірантів механіко-математичного та фізичного факультетів (Львівський Державний Університет), Вип. I. (Ukrainian) [Collection of candidates' works of the Department of Mechanics, Mathematics and Physics (Lvov State University), No. I] *Vidavnictvo L'vīv. Unīv., Lvov,* 1961. 136 *pp.* (Editors) 34 #3

* Сборник аспирантских работ. Математика. Механика. Физика. (Russian) [Collection of candidates' works. Mathematics. Mechanics. Physics] *Izdat. Kazan. Univ., Kazan,* 1964. 156 *pp.* (Editors) 32 #2290

* Сборник аспирантских работ. Математика. Механика. Физика. (Russian) [Collection of candidates' works. Mathematics. Mechanics. Physics] Edited by B. M. Gagaev. *Izdat. Kazan. Univ., Kazan,* 1964. 181 *pp.* (Editors) 38 #1971

* Сборник аспирантских работ. Математика. (Russian) [Collection of candidates' works. Mathematics] *Izdat. Kazan. Univ., Kazan,* 1966. 108 *pp.* (Editors) 36 #4937

* Сборник аспирантских работ. Точные науки: Математика, механика, физика. (Russian) [Collection of candidates' works. Exact sciences: Mathematics, mechanics, physics] Edited by B. M. Gagaev. *Izdat. Kazan. Univ., Kazan. Univ., Kazan,* 1969. 220 *pp.* (Editors) 40 #5373

Collection of mathematical papers

* Сборник статей по математике. Выпуск I. Часть 1. (Russian) [Collection of mathematical papers. No. I. Part 1] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk,* 1965. 156 *pp.* (Editors) 35 #1426

* Сборник статей по математике. Вып. I. Часть 2. (Russian) [Collection of mathematical papers. No. I. Part 2] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk,* 1966. 155 *pp. (errata insert)* (Editors) 39 #5284

Collection of mathematical problems with appendices and numerical tables

* Zbornik matematičkih problema sa prilozima i numeričkim tablicama. I. (Serbo-Croatian) [Collection of mathematical problems with appendices and numerical tables. I] Third edition. Edited by D. S. Mitrinović. *Zavod za Izdavanje Udžbenika, Belgrade,* 1962. xvi + 502 *pp.* (J. V. Wehausen) 29 #5702

Collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions

* Исследования по некоторым проблемам конструктивной теории функций. (Russian) [Studies in certain problems of the constructive theory of functions] A collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions. No. 1. Leningrad. Meh. Inst. Sb. Naučn. Trudov, No. 50. *Leningrad. Meh. Inst., Leningrad,* 1965. 249 *pp. (errata insert)* (Editors) 39 #1853

Collection of problems in the theory of probability, mathematical statistics and theory of random functions

(See Volodin, B. G.; Ganin, M. P.; Diner, I. Ja.; Komarov, L. B.; Svešnikov, A. A.; Starobin, K. B., 32 #8366 and 43 #1235)

* Problems in probability theory, mathematical statistics and theory of random functions. Edited by A. A. Sveshnikov. Translated from the Russian by Scripta Technica, Inc. Edited by Bernard R. Gelbaum. *W. B. Saunders Co., Philadelphia, Pa.-Toronto, Ont.-London,* 1968. ix + 481 *pp.* (Editors) 36 #5970

Collection of the rules of the science of astronomy

A collection of the rules of the science of astronomy. (Russian) Translated from the Arabic by N. G. Haĭretdinova. *Phys. Math. Sci. in the East, No.* 2 *(Russian), pp.* 147-182. *Izdat. "Nauka", Moscow,* 1969. (B. Rozenfel′d) 40 #4059

(See also Haĭretdinova, N. G., 40 #4060)

Collection of scientific papers

* Дагестанский государственный университет: Сборник научных сообщений. Математика и физика. (Russian) [Dagestan State University: Collection of scientific papers. Mathematics and physics] *Dagestanskoe Knižnoe Izdat., Makhachkala,* 1965. 202 *pp.* (Editors) 35 #4063

Collection of scientific works of graduate students at the Kiev Order of Lenin Institute of Technology

* Сборник научных трудов аспирантов Киевского ордена Ленина политехнического института. (Russian) [Collection of scientific works of graduate students at the Kiev Order of Lenin Institute of Technology] *Ministerstvo Vysš. i Sred. Spec. Obrazovan. Ukrain. SSR, Kiev,* 1961. 279 *pp. (errata insert)* (Editors) 41 #1

Collection of scientific works of graduates. No. VI: Mathematics, mechanics, physics

* Сборник научных работ аспирантов. Вып. VI: Математика, механика, физика. (Russian) [Collection of scientific works of graduates. No. VI: Mathematics, mechanics, physics] *Univ. Družby Narodov, Moscow,* 1969. 238 *pp.* (Editors) 44 #2541

* Сборник научных работ аспирантов. Вып. 7: Математика, механика, физика. (Russian) [Collection of scientific works of graduates. No. 7: Mathematics, mechanics, physics] *Univ. Družby Narodov, Moscow,* 1970. 232 *pp.* (Editors) 44 #2542

Colloque d'algèbre

* Colloque d'algèbre [6-7 mai 1967. Paris]. École normale supérieure de jeunes filles. *Secrétariat mathématique, Paris,* 1968. v + 64 *pp. (not consecutively paged)* (Editors) 38 #5543

Colloque sur l'Analyse Fonctionnelle

* Deuxième Colloque sur l'Analyse Fonctionnelle. Tenu à Liège du 4 au 6 mai 1964. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris,* 1964. 166 *pp.* (Editors) 32 #1531

Colloque sur les Techniques de Calcul et les Calculateurs

* Les travaux du Colloque sur les Techniques de Calcul et les Calculateurs (Bucarest, 22-26 septembre, 1967). Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.) 12(60) (1968), no. 1. *Societatea Ştiinţe Matematice R. S. România, Bucharest,* 1968, 155 *pp.* (Editors) 38 #2919

Colloque Théorie des Groupes Algébriques

* Colloque sur la Théorie des Groupes Algébriques. Tenu à Bruxelles du 5 au 7 juin 1962. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris;* 1962. 150 *pp.* (Editors) 31 #1253

Colloque de Topologie

* Colloque de Topologie tenu à Bruxelles du 7 au 10 septembre 1964. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris,* 1966. 235 *pp.* (Editors) 35 #6138

Colloque de topologie différentielle

* Colloque de topologie différentielle. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 55. *Université de Montpellier, Montpellier,* 1969. i + 90 *pp.* (Editors) 40 #2090

Colloques Internationaux du Centre National de la Recherche Scientifique

} * La théorie du potentiel. Orsay, 22-26 juin 1964. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 146. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1965. x + 312 *pp.* (Editors) 32 #224

* Les tendances géométriques en algèbre et théorie des nombres. Clermont-Ferrand (2-9 avril 1964). Colloques Internationaux du Centre National de la Recherche Scientifique, No. 143. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1966. 259 *pp.* (Editors) 34 #2387

* Programmation en mathématiques numériques. Actes d'un Colloque International tenu à Besançon, 7-14 septembre 1966. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 165. *Editions Centre Nat. Recherche Sci., Paris,* 1968. 391 *pp.* (Editors) 37 #6006

Colloquium on Applications of Mathematics to Economics
* Colloquium on Applications of Mathematics to Economics, Budapest, 1963. Edited by András Prékopa. *Akadémiai Kiadó, Budapest,* 1965. 367 *pp.* (Editors) 32 #2186

Colloquium über Automatentheorie
* 3. Colloquium über Automatentheorie, vom 19. bis 22. Oktober 1965 in Hannover. Herausgegeben von W. Händler, E. Peschl und H. Unger. Internationale Schriftenreihe zur Numerischen Mathematik, Band 6. *Birkhäuser Verlag, Basel-Stuttgart,* 1967. vi + 316 *pp.* (Editors) 36 #4919

Colloquium on Convexity
* Proceedings of the Colloquium on Convexity, Copenhagen, 1965. *Københavns Universitets Matematiske Institut, Copenhagen,* 1967. xii + 325 *pp.* (Editors) 35 #5271

Colloquium co-topology
* Colloquium co-topology: 1964-1965, Mathematical Centre. Notes by J. M. Aarts. Introduction by J. de Groot. *Stichting Mathematisch Centrum, Amsterdam,* 1965. vi + 48 *pp. (errata insert)* (C. J. Knight) 41 #6152

Colloquium on discrete mathematics
* Colloquium discrete wiskunde. (Dutch) [Colloquium on discrete mathematics] MC Syllabus, 5. *Mathematisch Centrum, Amsterdam,* 1968. iii + 108 *pp.* (Editors) 40 #10

Colloquium on the foundations of mathematics, mathematical machines and their applications
* Colloquium on the foundations of mathematics, mathematical machines and their applications. Tihany, 11-15 September, 1962. L. Kalmár, editor. *Akadémiai Kiadó, Budapest,* 1965. 317 *pp.* (Editors) 32 #5493

Colloquium of Methods of Optimization
* Colloquium on Methods of Optimization (Held in Novosibirsk/ USSR, June 1968). Edited by N. N. Moiseev, Lecture Notes in Mathematics, Vol. 112. *Springer-Verlag, Berlin-New York,* 1970. iii + 293 *pp.* (Editors) 40 #6993

Colloquium über Schaltkreis- und Schaltwerk Theorie
* Zweites Colloquium über Schaltkreis- und Schaltwerk-Theorie vom 18. bis 20. Oktober, 1961 in Saarbrücken. Vortragsauszüge. Herausgegeben von J. Dörr, E. Peschl, und H. Unger. Internationale Schriftenreihe zur Numerischen Mathematik, Band 4. *Birkhäuser Verlag, Basel-Stauttgart,* 1963. 152 *pp.* (M. Yoeli) 30 #4631

Colloquium on the Stability of Difference Schemes
(See Förch, G. J. R.; van der Houwen, P. J.; van de Riet, R. P.; 41 #7848 and Dekker, L.; Dekker, T. J.; van der Houwen, P. J.; Spijker, M. N.; 41 #7849)

Colloquium on the Theory of Approximation of Functions
Problèmes proposés par les participants au colloque. Colloquium on the Theory of Approximation of Functions (Cluj, 1967). *Mathematica (Cluj)* 10(33) (1968), 195-199. 38 #4857

Coloquio internacional de geometria diferencial
* Coloquio internacional de geometria diferencial. (Spanish) [International colloquium on differential geometry]. First international colloquium of mathematics held in Spain, 24-27 April, 1963. Publicaciones de la Sección Matematica de la Universidad de Santiago de Compostela. *Universidad de Santiago, Santiago,* 1964. 83 *pp.* (Editors) 30 #4195

Combinatorial mathematics and its applicaitons
* Combinatorial mathematics and its applications. Proceedings of the Conference held at the University of North Carolina at Chapel Hill, April 10-14, 1967. Edited by R. C. Bose and T. A. Dowling. The University of North Carolina Monograph Series in Probability and Statistics, No. 4. *The University of North Carolina Press, Chapel Hill, N. C.,* 1969. xvii + 602 *pp.* (Editors) 40 #1288
* Proceedings of the Second Chapel Hill Conference on Combinatorial Mathematics and its Applications (Held at the University of North Carolina at Chapel Hill, May, 1970). *Univ. North Carolina, Chapel Hill, N. C.,* 1970. xi + 548 *pp.* (Editors) 42 #1664
* Combinatorial mathematics and its applications. Proceedings of a Conference held at the Mathematical Institute, Oxford, from 7-10 July, 1969. Edited by D. J. A. Welsh. *Academic Press, London-New York,* 1971. x + 364 *pp.* (Editors) 43 #3128

Combinatorial problems
* Proceedings of the IBM Scientific Computing Symposium on Combinatorial Problems. *IBM Data Processing Division, White Plains, N. Y.,* 1966. xvii + 261 *pp.* (Editors) 35 #2699

Combinatorial structures and their applications
* Combinatorial structures and their applications. Proceedings of of the Calgary International Conference on Combinatorial Structures and their Applications held at the University of Calgary, Calgary, Alberta, Canada, June, 1969. Edited by Richard Guy, Haim Hanani, Norbert Sauer and Johanan Schönheim. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1970. xvi + 508 *pp.* (Editors) 41 #8247

Combinatorics
* Recent progress in combinatorics. Proceedings of the Third Waterloo Conference on Combinatorics, May 1968. Edited by W. T. Tutte. *Academic Press, New York-London,* 1969. xiv + 347 *pp.* (Editors) 40 #4128
* Proceedings of the Louisiana Conference on Combinatorics, Graph Theory and Computing (Louisiana State Univeristy, Baton Rouge, March 1-5, 1970). Edited by R. C. Mullin, K. B. Reid and D. P. Roselle. *Louisiana State University, Baton Rouge, La.,* 1970. vi + 464 *pp.* (Editors) 42 #1665

Communications of Works of the Irkutsk State University Computing Center
* Информационный сборник трудов вычислительного центра Иркутского государственного университета. Вып. I. (Russian) [Communications of works of the Irkutsk State University Computing Center. No. I] *Irkutsk. Gosudarstv. Univ. Vyčisl. Centr, Irkutsk,* 1966. 279 *pp.* (Editors) 41 #5138

Complex analysis
* Studies in real and complex analysis. Edited by I. I. Hirschman, Jr. MAA Studies in Mathematics, Vol. 3. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1965. v + 213 *pp.* (Editors) 32 #1080
* Complex analysis. Proceedings of the Conference on Complex Analysis, Rice University, Houston, Tex., 13-15 April, 1967. Edited by H. L. Resnikoff and R. O. Wells, Jr. Rice University Studies, Vol. 54 (1968), no. 4. *William Marsh Rice University, Houston, Tex.,* 1968. iii + 84 *pp.* (Editors) 38 #6095
* Complex analysis, 1969. Proceedings of the Conference on Complex Analysis, Rice University, 26-29 March, 1969. Edited by H. L. Resnikoff and R. O. Wells, Jr. Rice University Studies Vol. 56 (1970), no. 2. *William Marsh Rice University, Houston, Tex.,* 1970. vi + 222 *pp.* (Editors) 42 #6275

Complex manifolds
* Proceedings of Katata conference on the theory of partial differential equations and on the theory of complex manifolds. Held at Katata, Japan, September 18-22, 1966. *Research Institute for Mathematical Sciences of Kyoto University, Kyoto,* 1966. vi + 107 *pp.* (Editors) 36 #1252

Complex spaces
* Комплексыне пространства. (Russian) [Complex spaces] Collection of translations. A. B. Žižčenko and A. L. Oniščik, editors. *Izdat. "Mir", Moscow,* 1965. 320 *pp.* (Editors) 31 #4928

Complex systems of control
* Сложные системы управления. (Russian) [Complex systems of control] Academy of Sciences of the Ukrainian SSR. Institute of Cbyernetics. *Naukova Dumka, Kiev,* 1965. 175 *pp.* (Editors) 32 #9076
* Сложные системы управления (1966). (Russian) [Complex systems of control (1966)] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1966. 185 *pp.* (Editors) 39 #5179
* Сложные систем управления. Вып. 3. (Russian) [Complex systems of control. No. 3] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1967. 187 *pp.* (Editors) 39 #5180
* Сложные системы управления. Вып. 4. (Russian) [Complex systems of control. No. 4.] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1968. 179 *pp.* (Editors) 39 #5181
* слождые системы управления (Тпуды семинара, Киев, 1968 г.). Выр. 1. (Russian) [Complex control systems (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 113 *pp.* (Editors) 39 #7964

Compositio Math. Vol. 20
* Logic and foundations of mathematics. Dedicated to Prof. A. Heyting on his 70th birthday. *Wolters-Noordhoff Publishing, Groningen,* 1968. 248 *pp. (1 plate)* (Editors) 40 #1255

Comptes rendus du *K*-colloque
* Comptes rendus du *K*-colloque (Semaine d'études sur la *K*-théorie et les algèbres de Clifford). Vols. I-III. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1967-1968, No. 29. *Université de Montpellier, Montpellier,* 196. *Vol. I:* iii + 51 *pp.* ; *Vol. II;* iv + 144 *pp. (loose errata); Vol. III:* ii + 110 *pp.* (Editors) 40 #4942

Comptes rendus de la réunion du groupement des mathématiciens d'expressio
Latine
* Comptes rendus de la III^{e} réunion du groupement des mathématiciens d'expression Latine. Tenu à Namur, 20-23 septembre, 1965. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain-Belgique,* 1966. 154 *pp.* (Editors) 38 #956

Computational mathematics

* Вопросы вычислительной математики. (Russian) [Problems of computational mathematics] Academy of Sciences of the Azerbaijan SSR. Institute of Cybernetics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. 216 *pp.* (Editors) 35 #6326

* Вопросы вычислительной математики. (Russian) [Problems of computational mathematics] Academy of Sciences of the Azerbaijani SSR. Institute of Cybernetics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. 196 *pp.* (Editors) 39 #2287

Computational mathematics and techniques

* Обчислювальна математика і техніка. (Ukrainian) [Computational mathematics and techniques] *Vidavn. Akad. Nauk Ukraïn. RSR, Kiev,* 1963. 130 *pp.* (Editors) 42 #3969

Computational method of linear algebra

* Современные численные методы. Вып. 1. Вычислительные методы линейной алгебры. (Russian) [Modern numerical methods. No. 1. Computational methods of linear algebra] Proceedings of the International Summer School on Numerical Methods, Kiev, 1966. Edited by A. A. Abramov. The Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1968. 102 *pp.* (Editors) 39 #5050

Computational physics

* Methods in computational physics. Advances in research and applications. Vol. 3: Fundamental methods in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1964. xii + 386 *pp.* (Editors) 34 #8706

* Methods in computational physics. Advances in research and applications. Vol. 4: Applications in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1965. xi + 385 *pp.* (Editors) 34 #8707

Computational problems in abstract algebra

* Computational problems in abstract algebra. Proceedings of a Conference held at Oxford under the auspices of the Science Research Council, Atlas Computer Laboratory, 29th August to 2nd September 1967. Edited by John Leech. With a foreword by J. Howlett. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1970. x + 402 *pp.* (Editors) 40 #5374

Computer augmentation of human reasoning

* Symposium on computer augmentation of human reasoning. Proceedings of a Symposium held June 16-17, 1964, at the Department of State, Washington, D. C. Edited by Margo A. Sass and William D. Wilkinson. *Spartan Books, Inc., Washington, D. C.; Macmillan and Co., Ltd., London,* 1965. vi + 235 *pp.* (Editors) 34 #983

Computer techniques

* Programming and computer techniques in experimental physics. Edited by D. V. Skobel′cyn. Translated from the Russian. Proceedings (Trudy) of the P. N. Lebedev Physics Institute, Vol. 45. *Consultants Bureau, New York-London,* 1970. vi + 126 *pp.* (Editors) 41 #9464

Computer technology

* Математические методы в специализированной вычислительной технике (Труды семинара, Киев, 1967/68 гг.). Вып. 1. (Russian) [Mathematical methods in specialized computer technology (Proceedings of a Seminar, Kiev, 1967/68). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 123 *pp.* (Editors) 39 #5035

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 4: Вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 4: Computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 179 *pp.* (Editors) 43 #1788d

Computer technology in engineering and economic calculations

* Вычислительная техника в инженерных и экономических расчетах. Вып. I (Материалы конференции). (Russian) [Computer technology in engineering and economic calculations. No. I (Proceedings of a conference)] Politechnical Institute of the Far East. State University of the Far East. Joint Computing Laboratory. *Dal′nevostočn. Filial Sibirsk. Otdel. Akad. Nauk SSSR, Vladivostok,* 1968. 152 *pp. (errata inside back cover)* (Editors) 39 #5083

Computers

* Advances in Computers, Vol. 4. Edited by Franz L. Alt and Morris Rubinoff; associate editors A. D. Booth and R. E. Meagher. *Academic Press, New York-London,* 1963. xii + 312 *pp.* (B. A. Galler) 31 #903

* Advances in Computers. Vol. 5. Edited by Franz L. Alt and Morris Rubinoff. *Academic Press, New York-London,* 1964. xiii + 397 *pp.* (B. A. Galler) 31 #904

Computers in mathematical research

* Computers in mathematical research. Edited by R. F. Churchhouse and J.-C. Herz. *North-Holland Publishing Co., Amsterdam,* 1968. xi + 185 *pp.* (Editors) 38 #1972

Computing

* Proceedings of the Louisiana Conference on Combinatorics, Graph Theory and Computing (Louisiana State University, Baton Rouge, March 1-5, 1970). Edited by R. C. Mullin, K. B. Reid and D. P. Roselle. *Louisiana State University, Baton Rouge, La.,* 1970. vi + 464 *pp.* (Editors) 42 #1665

Computing Center, Irkutsk State Univ.

* Информационный сборник трудов вычислительного центра Иркутского государственного университета. Вып. I. (Russian) [Communications of works of the Irkutsk State University Computing Center. No. I] *Irkutsk. Gosudarstv. Univ. Vyčisl. Centr. Irkutsk,* 1966. 279 *pp.* (Editors) 41 #5138

Computing machines

* Вопросы теории ЕЦММ (Труды Семинара). Вып. 2. (Russian) [Problems in the theory of electronic computing machines (Proc. Seminar). No. 2] Academy of Sciences of the Ukrainian SSR. Scientific Council on Cybernetics. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 103 *pp.* (Editors) 39 #2363

Computing methods. See Modern computing methods.

Computing methods in optimization problems

* Computing methods in optimization problems. Proceedings of a conference held at University of California, Los Angeles, January 30-31, 1964. Edited by A. V. Balakrishnan and Lucien W. Neustadt. *Academic Press, New York-London,* 1964. x + 327 *pp.* (Editors) 29 #4638

* Computing methods in optimization problems. Papers presented at the 2nd International Conference on Computing Methods in Optimization Problems, San Remo, Italy, September 9-13, 1968. Lecture Notes in Operations Research and Mathematical Economics, Vol. 14. *Springer-Verlag, Berlin-New York,* 1969. v + 191 *pp.* (Editors) 39 #7987

* Computing methods in optimization problems. 2. Papers presented at a Conference held at San Remo, Italy, September 9-13, 1968. Edited by Lotfi A. Zadeh, Lucien W. Neustadt and A. V. Balakrishnan. *Academic Press, New York-London,* 1969. ix + 393 *pp. (loose errata)* (Editors) 41 #4783

Computing methods and programming

* Вычислительные методы и программирование. (Russian) Computing Center of the Moscow University. Collected works III. *Izdat. Moskovsk. Univ., Moscow,* 1965. 546 *pp.* (Editors) 32 #4879

* Вычислительные методы и программирование. V. (Russian) [Computing methods and programming. V] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1966. 363 *pp.* (Editors) 35 #3843

* Вычислительные методы и программирование. VI. (Russian) [Computing methods and programming. VI] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1967. 287 *pp.* (Editors) 35 #3844

* Вычислительные методы и программирование. VIII. (Russian) [Computing methods and programming. VIII] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1967. 254 *pp.* (Editors) 43 #8206

* Вычислительные методы и программирование. IX. (Russian) [Computing methods and programming. IX] Computing Center of the Moscow University. *Izdat. Moskov, Univ., Moscow,* 1967. 203 *pp.* (Editors) 41 #7816

* Вычислительные методы и программирование. X. (Russian) [Computing methods and programming. X] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1968. 224 *pp.* (Editors) 40 #8313

* Вычислительные методы и программирование. XI: Численные методы в газовой динамике. (Russian) [Computing methods and programming. XI: Numerical methods in gas dynamics] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1968. 177 *pp.* (Editors) 44 #1238

* Вычислительные методы и программирование. XII. (Russian) [Computing methods and programming. XII] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1969. 207 *pp.* (Editors) 44 #2321

* Вычислительные методы и программирование. XIV. (Russian) [Computing methods and programming. XIV] *Izdat. Moskov. Univ., Moscow,* 1970. 199 *pp.* (Editors) 44 #1176

* Вычислительные методы и программирование. XV: Численные методы в механике сплошных сред. (Russian) [Computing methods and programming. XV: Numerical methods in the mechanics of continuous media] *Izdat. Moskov. Univ., Moscow,* 1970. 199 *pp.* (Editors) 44 #1307

Computing methods in transport theory

* Вычислительные методы в теории переноса. (Russian) [Computing methods in transport theory] Proceedings of the First All-Union Symposium on Computing Methods in Transport Theory (Novosibirsk, 1967). Edited by G. I. Marčuk. *Atomizdat, Moscow,* 1969. 247 *pp.* (Editors) 43 #5846

Computing science

* University education in computing science. Proceedings of a conference on graduate academic and related research programs in computing science, held at the State University of New York at Stony Brook, June, 1967. Edited by Aaron Finerman. *Academic Press, New York-London,* 1968. xvi + 237 *pp.* 36 #2336

Computing systems

* Вычислительные системы (Труды симпозиума, г. Новосибирск, Май, 1966 г.). (Russian) [Computing systems (Proceedings of a Symposium, Novosibirsk, May, 1966)] *Izdat. "Nauka" Sibirsk. Otdel., Novosibirsk,* 1967. 286 *pp.* (Editors) 44 #3536

Computing techniques and programming problems

* Вычислительная техника и вопросы программирования. Вып. 3. (Russian) [Computing techniques and programming problems. No. 3] Department of Mathematics of Computation and the Computing Center of Leningrad State University. *Izdat. Leningrad. Univ., Leningrad,* 1964. 105 *pp.* (Editors) 32 #3267

Computing technology

* Применение математических методов и вычислительной техники в прогнозировании производственно-технического развития предприятий и отраслей народного хозяйства (Тезисы Всесоюзного научно-технического симпозиума). (Russian) [Application of mathematical methods and computing technology to the prediction of industrial-technological development of the enterprises and branches of the national economy (Abstracts of an All-Union scientific and technological symposium)] *Moldav. Naučno-Issled. Inst. Naučno-Tehn. Informacii i Tehn.-Ékonom. Issled., Kishinev,* 1970. 249 *pp.* (Editors) 42 #7237

Concentration of stresses

* Концентрация напряжений. Вып. 2. (Russian) [Concentration of stresses. No. 2] Academy of Sciences of the Ukrainian SSR. Institute of Mechanics. *Naukova Dumka, Kiev,* 1968. 255 *pp.* (Editors) 39 #3739

Conference

* Итоговая научная конференция Казанского государственного университета имени В. И. Ульянова-Ленина за 1962 год. (Russian) [V. I. Ul'janov-Lenin Kazan State University science survey conference for the year 1962] Sections on mathematics, mathematical statistics and cybernetics, applied mathematics and mechanics. *Izdat. Kazan. Univ., Kazan,* 1963. 194 *pp.* (Editors) 32 #3980

* Probleme actuale de matematică. (Romanian) [Current problems of mathematics] Conference held during the summer of 1961 for teachers of mathematics. *Editura Didactică şi Pedagogică, Bucharest,* 1963. 272 *pp.* (Editors) 31 #5773

Conference on Algebraic Topology

* Conference on algebraic topology. The University of Illinois at Chicago Circle, June 17-June 28, 1968. *Univ. of Illinois at Chicago Circle, Chicago, Ill.,* 1969. iv + 293 *pp. (loose 5 pp. insert)* (Editors) 40 #2050

Conference on Analysis in Function Space

* Proceedings of a Conference on the Theory and Applications of Analysis in Function Space. Dedham, Mass., June 9-13, 1963. Edited by William Ted Martin and Irving Segal. *The M.I.T. Press, Cambridge, Mass.,* 1964. vi + 218 *pp.* (Editors) 31 #1903

Conference on Applications of Mathematical Programming Techniques

* Applications of mathematical programming techniques. A conference held in Cambridge, England, between 24th-28th June 1968 under the aegis of the N.A.T.O. Scientific Affairs Committee. Edited by E. M. L. Beale. *American Elsevier Publishing Co., Inc., New York,* 1970. ix + 451 *pp.* (Editors) 41 #8027

Conference on Approximation Theory

* On approximation theory. (Proceedings of the Conference held in the Mathematical Research Institute at Oberwolfach, Black Forest, August 4-10, 1963.) Edited by P. L. Butzer and J. Korevaar. International Series of Numerical Mathematics. Vol. 5. *Birkhäuser Verlag, Basel-Stuttgart,* 1964. xvi + 261 *pp. (1 plate)* (Editors) 31 #2537

Conference of Byelorussian Mathematicians

* Труны I республиканской конференции математиков Белоруссии. (Russian) [Proc. of the First Republican Conference of the Mathematicians of Byelorussia] *Izdat. "Vyšsaja Škola", Minsk,* 1965. 501 *pp.* (Editors) 36 #4938

Conference on Complex Analysis

* Proceedings of the Conference on Complex Analysis. Minneapolis, Minn., 1964. Edited by A. Aeppli, E. Calabi, H. Röhrl. *Springer-Verlag, Berlin-Heidelberg-New York,* 1965. vii + 308 *pp.* (Editors) 30 #4969

Conference on Cybernetics

* Kybernetika a její využití. (Czech) [Cybernetics and its utilization] *Nakladatelství Československé Akademie Věd, Prague,* 1965. 366 *pp.* (Editors) 32 #7218

Conference on the History of Science

* Материалы VIII конференции по истории науки в Прибалоике. (Russian) [Abstracts of the Eighth Conference on the History of Science in the Baltic States] Academy of Sciences of the Estonian SSR. Estonian Branch of the Soviet National Union for History and Philosophy of Natural Science and Technology. *Akad. Nauk Èston. SSR, Tartu,* 1970. 181 *pp.* (Editors) 41 #8189

Conference on Information Theory, Statistical Decision Functions and Random Processes

* Transactions of the Fourth Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Held at Prague, August 31-September 11, 1965. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 725 *pp.* (Editors) 35 #4066

* Selected translations in mathematical statistics and probability, Vol. 8. Eleven Lectures delivered at the Fourth Prague Conference on Information Theory, Statistical Decision Functions and Random Processes held at Prague from 31st August to 11th September 1965. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1970. iv + 221 *pp.* (Editors) 41 #1461

Confér. Internat. Théories Relativistas de la Gravitation

* Conférence internationale sur les théories relativistes de la gravitation. Varsovie et Jabłonna, 25-31 Juli 1962. Sous la direction de L. Infeld. *Gauthier-Villars, Éditeur, Paris; PWN-Éditions Scientifiques de Pologne, Warsaw,* 1964. xviii + 379 *pp. (2 plates)* (Table of contents) 33 #8201

Conference on Mathematical Methods in Economic Research

* Konference o matematických metodách v ekonomickém výzkumu (Smolenice, 8.-11. června, 1965). (Czech) [Conference on mathematical methods in economic research (Smolenice, June 8-11, 1965)] Research Publication No. 12. *Ekonom.-Mat. Lab. Ekonom. Ústavu ČSAV, Prague,* 1966. x + 292 *pp.* (Editors) 35 #2616

Conference on Nonlinear Vibrations

* Nonlinear vibration problems. 5. Second Conference on Nonlinear Vibrations, Warsaw, September 18-21, 1962. Institute of Basic Technical Problems of Polish Academy of Sciences. Department of Vibrations. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. 661 *pp.* (Editors) 32 #1944

Conference on the Numerical Solution of Differential Equations

* Conference on the Numerical Solution of Differential Equations (Dundee, Scotland, June 23-27, 1969). Edited by J. Ll. Morris. Lecture Notes in Mathematics, Vol. 109. *Springer-Verlag, Berlin-New York,* 1969. vi + 275 *pp.* (Editors) 42 #2670

Conference: Problems in Topology

Problems in differential and algebraic topology. Seattle Conference, 1963. Edited by R. Lashof. *Ann. of Math.* (2) 81 (1965), 565-591. (A. Haefliger) 32 #443

Conference on Projective Geometry

* Proceedings of the projective geometry conference at the University of Illinois, Summer, 1967. *University of Illinois at Chicago Circle, Chicago, Ill.,* 1967. v + 164 *pp.* (Editors) 36 #3615

Conference on Symmetry Principles at High Energy

* Coral Gables Conference on Symmetry Principles at High Energy. January 30-31, 1964, University of Miami. Edited by Behram Kurşunoğlu and Arnold Perlmutter. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1964. viii + 171 *pp.* (P. Roman) 29 #5565

* Coral Gables Conferences on Symmetry Principles at High Energy. Second Conference, January 20-22, 1965, University of Miami. Behram Kurşunoğlu, Arnold Perlmutter and Ismail Sakmar, Editors. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1965. viii + 438 *pp.* (Editors) 31 #4447

* Coral Gables Conferences on Symmetry Principles at High Energy. Third Conference, January 19-21, 1966, Center for Theoretical Studies, University of Miami. Edited by Arnold Perlmutter, Joseph Wojtaszek, George Sudarshan and Behram Kurşunoğlu. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1966. vi + 282 *pp.* (Editors) 33 #7025

Conference on the Topology of Manifolds

* Conference on the topology of manifolds. Edited by John G. Hocking. The Prindle, Weber & Schmidt Complementary Series in Mathematics, Vol. 13. *Prindle, Weber & Schmidt, Inc., Boston, Mass.-London-Sydney,* 1968. viii + 161 *pp.* (Editors) 38 #1685

Conferenze generali e simposio di geometria differenziale

* Conferenze generali e simposio di geometria differenziale. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 6 (1961/62). *Seminario Matematico dell' Università, Messina,* 1962. ii + 190 *pp.* (Editors) 39 #6703a

Congestion theory

* Proceedings of the Symposium on Congestion Theory. Held at the University of North Carolina at Chapel Hill, August 24-26, 1964. Edited by Walter L. Smith and William E. Wilkinson. *The University of North Carolina Press, Chapel Hill, N. C.,* 1965. xv + 457 *pp.* (Editors) 32 #7223

Congrès de l'Association Française de Calcul et de Traitement de l'Information

* Troisième Congrès de Calcul et de Traitement de l'Information AFCALTI (Toulouse, 14-17 mai, 1963). Publié avec le concours du C.N.R.S. *Dunod, Paris,* 1965. ix + 406 *pp.* (Editors) 31 #5710

Congrès de l'Assoc. Française d'Informatique et de Recherche Operationelle

* Quatrième Congrès de Calcul et de Traitement de l'Information AFIRO (Versailles, 21-24 avril, 1964). Publié avec le concours du C.N.R.S. *Dunod, Paris,* 1965. vii + 413 *pp.* (Editors) 31 #5711

Congrès de Calcul et de Traitement de l'Information

* Troisième Congrès de Calcul et de Traitement de l'Information AFCALTI (Toulouse, 14-17 mai, 1963). Publié avec le concours du C.N.R.S. *Dunod, Paris,* 1965. ix + 406 *pp.* (Editors) 31 #5710

* Quatrième Congrés de Calcul et de Traitement de l'Information AFIRO (Versailles, 21-24 avril, 1964). Publié avec le concours du C.N.R.S. *Dunod, Paris,* 1965. vii + 413 *pp.* (Editors) 31 #5711

Congrès International d'Histoire des Sciences

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome I A: Colloques: Textes des rapports. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 431 *pp.* (Editors) 42 #5757a

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968), Tome II: Problèmes Généraux d'Histoire des Sciences, Épistémologie. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 119 *pp.* (Editors) 42 #5757b

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III A: Science et Philosophie: Antiquité, Moyen Âge, Renaissance. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 151 *pp.* (Editors) 42 #5757c

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III B: Science et Philosophie: XVII^{e} et XVIII^{e} Siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 181 *pp.* (Editors) 42 #5757d

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août, 1968). Tome IV: Histoire des mathématiques et de la mécanique. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 184 *pp.* (Editors) 43 #3068a

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 aout, 1968). Tome V: Histoire de la physique—y compris l'astronomie—XIX^{e} et XX^{e} siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 126 *pp.* (Editors) 43 #3068b

Congrès Mathématique Hongrois

* Deuxième Congrès Mathématique Hongrois, Budapest, 24.-31. August 1960. I, II. *Akadémiai Kiadó, Budapest,* 1961. *I:* 361 *pp. (not consecutively numbered); II:* 324 *pp. (not consecutively numbered)* 29 #4654

Congress of International Federation of Automatic Control

* Automatic and remote control. 4 vols. Proceedings of the First International Congress of the International Federation of Automatic Control (Moscow, 1960). (Title and table of contents in English, French and German) Edited by J. F. Coales, J. R. Ragazzini and A. T. Fuller. *Butterworths, London,* 1961, *Vol. I:* xliii + 10 + *pp.* 1-546; *Vol. II:* xliii + *pp.* 547-1091; *Vol. III:* xliii + 412 *pp; Vol. IV:* xliii + 513 *pp.* (Editors) 32 #9074

Congress on Theoretical and Applied Mechanics

* Proceedings of the Seventh Congress on Theoretical and Applied Mechanics, Bombay, 1961. *Indian Society of Theoretical and Applied Mechanics, Indian Institute of Technology, Kharagpur,* 1962. xi + 379 *pp.* (Editors) 31 #6406

Congruence of sets and other monographs

* ***Congruence of sets*** and other monographs. *Chelsea Publishing Co., New York,* 1967. v + 375 *pp.* (Editors) 36 #23

Constructive aspects of the fundamental theorem of algebra

* Constructive aspects of the fundamental theorem of algebra. Proceedings of a Symposium Conducted at the IBM Research Laboratory, Zürich-Rüschlikon, June 5-7, 1967. Edited by Bruno Dejon and Peter Henrici. *Wiley-Interscience [A Division of John Wiley & Sons, Ltd.], London-New York-Sydney,* 1969. vii + 377 *pp.* (Editors) 40 #6769

Constructive theory of functions

* Исследования по современным проблемам конструктивной теории функций. (Russian) [Studies of contemporary problems in the constructive theory of functions] Proceedings of the Second All-Union Conference on the Constructive Theory of Functions held in Baku, October 8-13, 1962. Edited by I. I. Ibragimov. Academy of Sciences of the Azerbaijani SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 638 *pp.* (Editors) 33 #1617

* Исследования по некоторым проблемам конструктивной теории функций. (Russian) [Studies in certain problems of the constructive theory of functions] A collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions. No. 1. Leningrad. Meh. Inst. Sb. Naučn. Trudov, No. 50. *Leningrad. Meh. Inst., Leningrad,* 1965. 249 *pp. (errata insert)* (Editors) 39 #1853

* Третья летная математическая школа (Кацивели, июнь-июль, 1965): Конструктивная теория функций. (Russian) [Third Mathematical Summer School (Kaciveli, June-July, 1965): Constructive theory of functions] Edited by Ju. A. Mitropol′skiĭ, V. K. Dzjadyk and S. M. Nikol′skii. Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev,* 1966. 242 *pp.* (Editors) 36 #1881

Contact manifolds

* Seminar on contact manifolds. Part of a Symposium held at the Research Institute for Mathematical Sciences, Kyoto, June 23-25, 1969. Publications of the Study Group of Geometry, Vol. 4. *Department of Mathematics, Okayama University, Okayama,* 1970. iii + 83 *pp.* (Editors) 41 #6115

Contemporary problems in the theory of analytic functions

* Современные проблемы теории аналитических функций. (Russian) [Contemporary problems in the theory of analytic functions] International Conference on the Theory of Analytic Functions, Erevan, 1965. Edited by M. A. Lavrent′ev. *Izdat. "Nauka", Moscow,* 1966. 362 *pp.* (Editors) 34 #2833

Contests in higher mathematics

* Contests in higher mathematics (Hungary, 1959-1961). In memorian Miklós Schweitzer. Editorial Board: G. Szász, L. Gehér, I. Kovács and L. Pintér. Manuscript revised by P. Erdős, A. Rényi, B. Sz.-Nagy and P. Turán. Linguistically revised by B. Balkay. *Akadémiai Kiadó, Budapest,* 1968. 260 *pp.* (L. M. Kelly) 39 #1252

Continuous media

* Вычислительные методы и программирование. XV: Численные методы в механике сплошных сред. (Russian) [Computing methods and programming. XV: Numerical methods in the mechanics of continuous media] *Izdat. Moskov. Univ., Moscow,* 1970. 199 *pp.* (Editors) 44 #1307

Continuum mechanics

(See Truesdell, C., 33 #1187a)

* Continuum mechanics. II. The rational mechanics of materials. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 436 *pp.* (Editors) 33 #1187b

* Continuum mechanics. III. Foundations of elasticity theory. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 310 *pp.* (Editors) 33 #1187c

* Continuum mechanics. IV. Problems of non-linear elasticity. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 263 *pp.* (Editors) 33 #1187d

Contributions to ergodic theory and probability

* Contributions to ergodic theory and probability. Proceedings of the First Midwestern Conference on Ergodic Theory, held at the Ohio State University, March 27-30, 1970. Organized by Louis Sucheston. Lecture Notes in Mathematics, Vol. 160. *Springer-Verlag, Berlin-New York,* 1970. vii + 278 *pp.* (Editors) 42 #3256

Contributions to extension theory of topological structures

* Contributions to extension theory of topological structures. Proceedings of the Symposium held in Berlin, August 14-19, 1967. Edited by J. Flachsmeyer, H. Poppe and F. Terpe. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 279 *pp. (loose errata)* (Editors) 39 #6268

Contributions to functional analysis

* Contributions to functional analysis. *Springer-Verlag, Berlin-New York,* 1966. viii + 529 *pp. (not consecutively paged)* (Editors) 33 #4641

Contributions to mathematical logic

* Contributions to mathematical logic (Proceedings of the Logic Colloquium, Hannover, 1966). Edited by H. Arnold Schmidt, Kurt Schütte and H.-J. Thiele. *North-Holland Publishing Co., Amsterdam,* 1968. x + 298 *pp.* (Editors) 38 #3120

Contributions to the method of Lie series

* Contributions to the method of Lie series. Edited by W. Gröbner and H. Knapp. B. I. Hochschulskripten, 802/802a. *Bibliographisches Institut, Mannheim,* 1967. vi + 265 *pp.* (Editors) 39 #6027

Contributions to order statistics

* Contributions to order statistics. Edited by Ahmed E. Sarhan and Bernard G. Greenberg. *John Wiley & Sons, Inc., New York-London,* 1962. xxv + 482 *pp.* (J. Kiefer) 29 #6587

Contributions to statistics

* Contributions to statistics. Presented to P. C. Mahalanobis on the occasion of his 70th birthday. Edited by C. R. Rao in collaboration with D. B. Lahiri, K. R. Nair, P. Pant and S. S. Shrikhande. *Statistical Publishing Society, Calcutta; Pergamon Press, Oxford-New York-Paris,* 1965. iv + 528 *pp.* (Editors) 35 #3766

Control

* Математический анализ. Теория вероятностей. Регулирование (1962) (Russian) [Mathematical analysis. Theory of probability. Control (1962)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1964. 211 *pp.* (Editors) 31 #3258

* Сложные системы управления. (Russian) [Complex systems of control] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1965. 175 *pp.* (Editors) 32 #9076

* Сложные системы управления (1966). (Russian) [Complex systems of control (1966)] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1966. 185 *pp.* (Editors) 39 #5179

* Кибернетика и управление. (Russian) [Cybernetics and control] Academy of Sciences of the USSR. Institute of Automation and Remote Control. *Izdat. "Nauka", Moscow,* 1967. 176 *pp.* (Editors) 35 #4031

* Сложные системы управления. Вып. 3. (Russian) [Complex systems of control. No. 3] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1967. 187 *pp.* (Editors) 39 #5180

* Сложные системы управления. Вып. 4. (Russian) [Complex systems of control] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1968. 179 *pp.* (Editors) 39 #5181

Control systems

* Advances in control systems: Theory and applications. Vol. 1. Edited by C. T. Leondes. *Academic Press, New York-London,* 1964. x + 365 *pp.* (Editors) 30 #5853

* Вопросы теории управляющих систем. (Russian) [Problems in the theory of control systems] Academy of Sciences of the Moldavian SSR. Department of Cybernetics. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. 115 *pp.* (Editors) 34 #1085

* Advances in control systems: Theory and applications. Vol. 2. Edited by C. T. Leondes. *Academic Press, New York-London,* 1965. x + 313 *pp.* (Editors) 34 #7227

* Advances in control systems: Theory and applications. Vol. 3. Edited by C. T. Leondes. *Academic Press, New York-London,* 1966. x + 346 *pp.* (Editors) 34 #7228

* Advances in control systems: Theory and applications. Vol. 4. Edited by C. T. Leondes. *Academic Press, New York-London,* 1966. xiv + 320 *pp.* (Editors) 34 #7229

* Advances in control systems. Theory and applications. Vol. 6. Edited by C. T. Leondes. *Academic Press, New York-London,* 1968. xiii + 321 *pp.* (Editors) 42 #1544

* Advances in control systems. Theory and applications. Vol. 7. Edited by C. T. Leondes. *Academic Press, New York-London,* 1969. xiii + 314 *pp.* (Editors) 42 #2825

Control systems theory

* Современная теория систем управления. (Russian) [Modern control systems theory] Edited by C. T. Leondes. Translated from the English by Ja. A. Kogan, Ju. Ė. Sagalov and I. V. Time. Translation edited by Ja. Z. Cypkin. *Izdat. "Nauka", Moscow,* 1970. 511 *pp.* (Editors) 42 #5661

Control theory and applications

* Proceedings of the IBM Scientific Computing Symposium on Control Theory and Applications. *IBM Data Processing Division, White Plains, N. Y.,* 1966. xvii + 248 *pp.* (Editors) 35 #4032

Controllability and observability

* Controllability and observability. Centro Internazionale Matematico Estivo (C.I.M.E.). 1° Ciclo, Sasso Marconi (Bologna), 1-9 luglio, 1968. Coordinatore: G. Evangelisti. *Edizioni Cremonese, Rome,* 1969. ii + 289 *pp.* (Editors) 39 #3860

Convegno Internazionale di Geometria Algebrica

* Atti del Convegno Internazionale di Geometria Algebrica. Tenuto a Torino nei giorni 24-27 maggio 1961. *Tipi L. Rattero, Turin,* 1962. 215 *pp.* (Editors) 31 #1249

Convexity

* Proceedings of the Colloquium on Convexity, Copenhagen, 1965. *Københavns Universitets Matematiske Institut, Copenhagen,* 1967. xii + 325 *pp.* (Editors) 35 #5271

Convexity and combinatorics

* Proceedings of the Twelfth Biennial Seminar of the Canadian Mathematical Congress on Time Series and Stochastic Processes; Convexity and Combinatorics. Edited by Ronald Pyke. *Canadian Mathematical Congress, Montreal, Que.,* 1970. xiv + 279 *pp. (1 plate)* (Editors) 42 #7458

Corrections and notes to the collection "Problems of the constructive direction in mathematics"

Corrections and notes to the collection "Problems of the constructive direction in mathematics, part 2" in Trudy Mat. Inst. Steklov. 67 (1962). (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 544-545. 32 #5514

Correspondance du P. Marin Mersenne, religieux minime

* Correspondance du P. Marin Mersenne, religieux minime. VIII: août 1638-décembre 1639. Publiée et annotée par Cornelis de Waard. Édition entreprise sur l'initiative de Mme Paul Tannery et continuée par le Centre National de la Recherche Scientifique. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1963 [1964]. ix + 787 *pp. (4 plates)* (J. E. Hofmann) 29 #4660

Correspondence between Gauss and Gerling

* Christian Ludwig Gerling on Carl Friedrich Gauss. Sechzig bisher unveröffentlichte Briefe. Herausgegeben von Theo Gerardy. Arbeiten aus der Niedersächsischen Staats- und Universitätsbibliothek Göttingen, Band 5. *Vandenhoeck & Ruprecht, Göttingen,* 1964. 123 *pp. (1 plate)* (C. J. Scriba) 30 #1023

Correspondence of Henry Oldenburg

* The correspondence of Henry Oldenburg. Vol. I: 1641-1662. Edited and translated by A. Rupert Hall and Mary Boas Hall. With the collaboration of Eberhard Reichmann. *The University of Wisconsin Press, Madison, Wis.,* 1965. xl + 504 *pp. (5 plates)* 32 #7339a; erratum, 40, p. 1704

* The correspondence of Henry Oldenburg. Vol. II: 1663-1665. Edited and translated by A. Rupert Hall and Mary Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1966. xxvi + 678 *pp. (5 plates)* 32 #7373b; erratum, 40, p. 1704

* The correspondence of Henry Oldenburg. Vol. III: 1666-1667. Edited and translated by A. Rupert Hall and Mary Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1966. xxix + 649 *pp. (6 plates)* 32 #7373c; erratum, 40, p. 1704

* The correspondence of Henry Oldenburg. Vol. IV: 1667-1668. Edited and translated by A. Rupert Hall and Marie Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1967. xxv + 601 *pp. (5 plates)* (Editors) 39 #5298a

* The correspondence of Henry Oldenburg. Vol. V: 1668-1669. Edited and translated by A. Rupert Hall and Marie Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1968. xxvi + 604 *pp. (5 plates)* (Editors) 39 #5298b

* The correspondence of Henry Oldenburg. Vol. VI: 1669-1670. Edited and translated by A. Rupert Hall and Marie Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1969. xxviii + 660 *pp. (1 plate)* (Editors) 41 #8199a

* The correspondence of Henry Oldenburg. Vol. VII: 1670-1671. Edited and translated by A. Rupert Hall and Marie Boas Hall. *The University of Wisconsin Press, Madison, Wis.-London,* 1970. xxviii + 600 *pp. (1 plate)* (Editors) 41 #8199b

Cosmological models

* Cosmological models. Proceedings of an International Summer Institute held at Lisbon, September, 1963. *Instituto Gulbenkian de Ciência. Centro de Cálculo Cientifico, Lisbon,* 1964. xxxiv + 231 *pp.* (Editors) 34 #3984

Co-topology

* Colloquium co-topology: 1964-1965, Mathematical Centre. Notes by J. M. Aarts. Introduction by J. de Groot. *Stichting Mathematisch Centrum, Amsterdam,* 1965. vi + 48 *pp. (errata insert)* (C. J. Knight) 41 #6152

Courant Symposium

* Studies in applied mathematics. I. Papers presented by invitation at the Courant Symposium, held at Courant Institute of Mathematical Sciences, New York, June 8-9, 1965, under a contract with the Air Force Office of Scientific Research. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1966. iii + 129 *pp. (1 plate)* (Editors) 41 #6646

Current algebra and phenomenological Lagrange functions

* Current algebra and phenomenological Lagrange functions. Invited papers presented at the First International Summer School for Theoretical Physics, University of Karlsruhe (July 22-August 2, 1968). Springer Tracts in Modern Physics. Ergebnisse der exakten Naturwissenschaften, Vol. 50. *Springer-Verlag, Berlin-New York,* 1969. iv + 156 *pp.* (Table of contents) 40 #2305

Current problems of mathematics

* Probleme actuale de matematică. (Romanian) [Current problems of mathematics] Conference held during the summer for teachers of mathematics of 1961. *Editura Didactică şi Pedagogică, Bucharest,* 1963. 272 *pp.* (Editors) 31 #5773

Cybernetical models

* Кибернетические модели. (Russian) [Cybernetical models] Academy of Sciences of the Georgian SSR. Institute of Cybernetics. *Izdat. "Mecniereba", Tbilisi,* 1965. 86 *pp.* (Editors) 36 #1230

Cybernetic technology

* Кибернетическая техника. (Russian) [Cybernetic technology]. *Naukova Dumka, Kiev,* 1965. 166 *pp.* 32 #4880

Cybernetics

* Нопросы теоретической кибернетики. (Russian) [Problems of theoretical cybernetics]. Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1965. 211 *pp.* (Editors) 33 #7176

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 100 *pp.* (Editors) 36 #6

* Вопросы технической кибернетики. (Russian) [Questions of engineering cybernetics] Institute of Cybernetics of the Academy of Sciences of the Azerbaijan SSR. *Izdat. Akad. Nauk Azerbaidžan. SSR, Baku,* 1969. 144 *pp.* (Editors) 44 #1458

* Исследование устройств передачи информации (Материалы семинара по кибернетике. Вып. 22). (Russian) [Studies of the apparatus of information transmission (Proc. Sem. Cybernetics, No. 22)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 35 *pp.* (Editors) 43 #4547

* Телеавтоматические системы массового обслуживания (Материавы семинара по кибернетике. Вып. 23-24). (Russian) [Teleautomatic systems of queueing (Proc. Sem. Cybernetics. No. 23-24)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 67 *pp.* (Editors) 43 #5639

Cybernetics collection

* Кибернетический сборник. Новая серия I. (Russian) [Cybernetics collection. New series I.] A. A. Ljapunov and O. B. Lupanov, editors. *Izdat. "Mir", Moscow,* 1965. 314 *pp.* (Editors) 32 #7217

* Кибернетический сборник. Новая серия. II. (Russian) [Cybernetics collection. New series. II.] A. A. Ljapunov and O. B. Lupanov, editors. *Izdat. "Mir", Moscow,* 1966. 231 *pp.* (Table of contents) 33 #3857

Cybernetics and computer technology

* Кибернетика и техника вычислений. (Russian) [Cybernetics and computer technology] *Naukova Dumka, Kiev,* 1964. 172 *pp.* (Editors) 32 #3916

* Кибернетика и вычислительная техника. Вып. 4: Биологическая кибернетика. (Russian) [Cybernetics and computer technology. No. 4: Biological cybernetics] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1970. 240 *pp.* (Editors) 44 #3753

Cybernetics and computer technology in the Ukraine

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 1: Теоретическая кибернетика и вычислительные методы. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 1: Theoretical cybernetics and computing methods] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 261 *pp.* (Editors) 43 #1788a

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 2: Техническая кибернетика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 2: Engineering cyberentics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 220 *pp.* (Editors) 43 #1788b

* Кибернетика и вычислительная техника на Учраине. Библиографический указатель. Часть 3: Математическое моделирование и специализированная вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 3: Mathematical simulation and specialized computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 178 *pp.* (Editors) 43 #1788c

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 4: Вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A Bibliography. Part 4: Computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 179 *pp.* (Editors) 43 #1788d

* Кибернетика и вычислительная техпика на Украине. Библиографический указатель. Часть 5: Экономическая кибернетика и системотехника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 5: Economic cybernetics and systems theory] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 201 *pp.* (Editors) 43 #1788e

* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 6: Биологическая и медицинская кибернетика, бионика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 6: Biological and medical cybernetics, bionics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 114 *pp.* (Editors) 43 #1788f

Cybernetics and control

* Кибернетика и управление. (Russian) [Cybernetics and control] Academy of Sciences of the USSR. Institute of Automation and Remote Control. *Izdat. "Nauka", Moscow,* 1967. 176 *pp.* (Editors) 35 #4031

Cybernetics and its utilization

* Kybernetika a její využití. (Czech) [Cybernetics and its utilization] *Nakladatelství Československé Akademie Věd, Prague,* 1965. 366 *pp.* (Editors) 32 #7218

Cycle of articles on ergodic theory

Cycle of articles on ergodic theory. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 3-172. (Editors) 35 #5577

Cycles of reduced ideals in quadratic fields

* British Association for the Advancement of Science. Mathematical Tables, Volume IV: Cycles of reduced ideals in quadratic fields. Prepared by E. L. Ince on behalf of the British Association Committee for the Calculation of Mathematical Tables. *Published for the Royal Society at the Cambridge University Press, London,* 1966. xvi + 80 *pp.* (Editors) 36 #6382

Dagestan State University: Collection of scientific papers

* Дагестанский государственный университет: Сборник научных сообщений. Математика и физика. (Russian) [Dagestan State University: Collection of scientific papers. Mathematics and physics] *Dagestanskoe Knižnoe Izdat., Makhachkala,* 1965. 202 *pp.* (Editors) 35 #4063

Dartmouth College Mathematics Conference

* New directions in mathematics. Dartmouth College Mathematics Conference (Nov. 3-4, 1961). Conference arranged by John G. Kemeny and Robin Robinson. Edited by Robert W. Ritchie. *Prentice Hall, Inc., Englewood Cliffs, N. J.,* 1963. iv + 124 *pp.* (L. K. Durst) 32 #1087

Decidable theories

(See Siefkes, Dirk, 44 #6488)

La décision, 2: Agrégation et dynamique des ordres de préférence

* La décision, 2: Agrégation et dynamique des ordres de préférence. Actes du Colloque International à Aix-en-Provence, du 3 au 7 juillet 1967. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 171. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1969. xii + 336 *pp.* (Editors) 40 #8438

Decision and control

* Proceedings of 1969 IEEE Symposium on Adaptive Processes (8th): Decision and control (The Pennsylvania State University, November 17-19, 1969). 69 C 52-AC. *Institute of Electrical and Electronics Engineers, New York,* 1969. iv + 122 *pp. (not consecutively paged)* (Editors) 41 #9637

The development of modern physics

* Развитие современной физики. (Russian) [The development of modern physics] Edited by B. G. Kuznecov. Akad. Nauk SSSR Inst. Istor. Estest. i Tehn. *Izdat. "Nauka", Moscow,* 1964. 330 *pp.* (P. Roman) 30 #845

Development of science in Soviet Azerbaijan

* Развитие науки в советском Азербайджане (1920-1970): Библиография—Совет Азәрбајҹанында елмин инкишафы (1920-1970): Библиографија. (Russian and Azerbaijani) [Development of science in Soviet Azerbaijan (1920-1970): A bibliography] *Izdat. "Èlm", Baku,* 1970. 147 *pp.* (Editors) 42 #2906

Developments in theoretical and applied mechanics

* Developments in Theoretical and Applied Mechanics, Vol. 2. Proceedings of the Second Southeastern Conference on Theoretical and Applied Mechanics; sponsored by Georgia Institute of Technology; hold at Atlanta, Georgia, March 5-6, 1964. Edited by W. A. Shaw. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt,* 1965. xv + 651 *pp.* (Editors) 31 #912

* Developments in theoretical and applied mechanics. Vol. 4. Proceedings of the Fourth Southeastern Conference on Theoretical and Applied Mechanics; Sponsored by Tulane University; Held in New Orleans, La., February 29th-March 1st, 1968. Edited by Daniel Frederick. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1970. xiii + 637 *pp.* (Editors) 41 #4871

Dictionaries

(See Kleczek, Josip, 30 #1016 and Miklaševskaja, N. E.; Miklaševskiĭ, R. I., 29 #3332)

* First supplement to AGARD aeronautical multilingual dictionary. Edited by A. H. Holloway. Published for and on behalf of Advisory Group for Aeronautical Research and Development North Atlantic Treaty Organization. *The Macmillan Co., New York,* 1963. ix + 334 *pp.* (Editors) 31 #4

* Краткий польско-русский и русско-польский политехнический словарь. (Russian) [A short Polish-Russian and Russian-Polish technical dictionary] Compiled and edited by M. Porvit with the collaboration of I. Sedlecka. *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1963. viii + 442 *pp.* (Editors) 31 #1161

(See also Emin, Irving, 31 #3293)

* Польско-русский политехнический словарь. (Russian) [Polish-Russian technical dictionary] *Glav. Redak. Inostr. Naučno-Tehn. Slovareĭ Fizmatgiza, Moscow,* 1963. 516 *pp.* 32 #5

* Семиязычный словарь по автоматике, вычислительной и измерительной технике. (Russian) [Seven-language dictionary for automation, computing and measuring technology] English, Russian, French, Spanish, Italian, Dutch, German. *Glav. Redak. Inostr. Naučno-Tehn. Slovareĭ Fizmatgiza, Moscow,* 1963. 471 *pp.* (Editors) 32 #7

* Русско-англо-немецко-французский словарь терминов по автоматическому управлению. (Russian) [Russian-English-German-French dictionary of terms in automatic control] Edited by A. V. Hramoĭ. *Izdat. Akad. Nauk SSSR, Moscow,* 1963. 230 *pp.* (Editors) 41 #1469

* Шведско-русский политехнический словарь. (Russian) [Swedish-Russian technical dictionary] Compiled by V. F. Maksimov; Edited by L. Ja. Popilov and I. V. Èĭhval'd. *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1964. 1257 *pp.* (Editors) 29 #3331

(See also Marton, Tibor W., 30 #4646; Kotz, Samuel, 31 #3294; Tonjan, A. O.; Tonjan, V. A., 32 #8; Herland, Leo, 34 #6; and Macintyre, Sheila; Witte, Edith, 34 #1134)

* Англо-русский словарь по вычислительной технике.(Russian) [English-Russian dictionary of computing technology] Compiled by V. K. Zeĭdengerg, A. V. Avaev, Ju. L. Ziman, A. N. Zimarev, V. V. Ivanov, L. N. Korolev, T. S. Loseva, E. V. Tarovatova; edited by S. A. Lebedev. *Izdat. "Sovetskaja Ènikloped.", Moscow,* 1964. 279 *pp.* (Editors) 31 #2108

* Русско-болгарский политехнический словарь. (Russian) [Russian-Bulgarian technical dictionary] Compiled by N. S. Zauèr. Edited by N. I. Popov. *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1964. 471 *pp.* 32 #6

* Shorter technological dictionary: English-Polish, Polish-English. Edited by S. Czerni and M. Skrzyńska. Phonetic transcription by Alfred Reszkiewicz and Anna Reszkiewicz. *Wydawnictwa Naukowo-Techniczne, Warsaw,* 1966. vii + 174 *pp.* 34 #1135

* Краткий русско-индонезийский словарь арифметических терминов. (Russian) [A short Russian-Indonesian dictionary of arithmetical terms] *Universitet Družby Narodov, Moscow,* 1966. 17 *pp.* 34 #2399

* Речник математичних термина/Словарь математических терминов/Dictionnaire des termes mathématiques/Dictionary of mathematical terms/Wörterbuch der mathematischen Fachwörter. (Serbo-Croatian) Edited by Tadija Pejović. *Zavod za Izdavanje Udžbenika, Belgrade,* 1966. 285 *pp.* (Editors) 34 #5607

(See Gould, S. H.; Obreanu, P. E., 34 #5606 and Kurtz, Albert K.; Edgerton, Harold A., 36 #4666)

* James & James mathematics dictionary (multilingual edition). Third edition. *D. Van Nostrand Co., Inc., Princeton, N. J.-London-Toronto, Ont.,* 1968. viii + 517 *pp.* (Editors) 37 #11

* Немецко русский математический словарь. (Russian) [German-Russian mathematical dictionary] Compiled by L. A. Kalužnin, V. A. Mihaĭlov, L. P. Nižnik, A. A. Stogniĭ and S. A. Širokova. Edited by I. B. Pogrebysskiĭ. *Izdat. "Nauka", Moscow,* 1968. 387 *pp.* (Editors) 39 #7

* Iwanami sugaku jiten. (Japanese) [Iwanami mathematical dictionary] Edited by the Mathematical Society of Japan. Second edition. *Iwanami Shoten Publishers, Tokyo.* 1968. i + 1140 *pp.* (K. Nomizu) 39 #2570

* Болгарско-русский политехнический словарь. (Russian) [Bulgarian-Russian polytechnical dictionary] *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1968. 560 *pp.* (Editors) 41 #1468

(See Ždanova, G. S.; Ioselevič, O. V.; Kolobrodova, E. S.; Poluškin, V. A.; Černyĭ, A. I., 43 #7279)

* Международный электротехнический словарь, Группа 37. Автоматические управляющие и регулирующие системы. (Russian) [International electrotechnical dictionary, Group 37. Automatic control and regulating systems] Second edition. *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1969. 112 *pp.* (Preface) 41 #3211

* Русско-английский словарь-минимум по математике, физике и химии. (Russian) [Russian-English minimum dictionary of mathematics, physics and chemistry] *Univ. Družby Narodov, Moscow,* 1969. 179 *pp. (index insert; errata insert)* (Editors) 43 #9

(See Sjöstedt, C. E., 43 #8; Ginguay, Michel, 42 #7463; erratum, 44, p. 1631)

Dictionary of mathematical terms

* Реник математичних термина/ Слтварб математических терминов. /Dictionnaire des terms mathématiques/Dictionary of mathematical terms/ Wörterbuch der mathematischen Fachwörter. (Serbo-Croatian) Edited by Tadija Pejović. *Zavod za Izdavanke Udžbenika, Belgrade,* 1966. 285 *pp.* (Editors) 34 #5607

Dictionary of symbols of mathematical logic

* Dictionary of symbols of mathematical logic. Edited by Robert Feys and Frederic B. Fitch. *North-Holland Publishing Co., Amsterdam,* 1969. xiv + 171 *pp.* (K. Inoue) 40 #7082

Difference methods for solutions of problems of mathematical physics

* Difference methods for solutions of problems of mathematical physics. I. Edited by N. N. Janenko. Translated from the Russian by J. M. Danskin. Proceedings of the Steklov Institute of Mathematics, No. 74 (1966). *American Mathematical Society, Providence, R. I.,* 1967. viii + 188 *pp.* (Editors) 35 #6325

Differential analysis: Papers presented at the Colloquium

* Differential analysis: Papers presented at the Bombay Colloquium, 1964. *Published for the Tata Institute of Fundamental Research, Bombay, Oxford University Press, London,* 1964. viii + 253 *pp.* (Editors) 31 #5771

Differential and combinatorial topology

* Differential and combinatorial topology. A Symposium in Honor of Marston Morse. Stewart S. Cairns, general editor. *Princeton University Press, Princeton, N. J.,* 1965. vii + 265 *pp. (1 plate)* (Editors) 31 #1682

Differential equations

* Translations, Ser. 1, Vol. 4: Differential equations. *American Mathematical Society, Providence, R. I.,* 1962. iii + 473 *pp.* (Editors) 38 #1980

* Исследования по дифференциальным уравнениям. (Russian) [Studies in differential equations] *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1963. 205 *pp.* (Editors) 32 #2639

New books. (Russian) *Differencial'nye Uravnenija* 1 (1965), 426-427; *ibid.* 2 (1966), 435. (Editors) 38 #2356a

(See Šakun, A. R., 38 #2356b-c)

* Теория функций и дифференциальные уравнения. (Russian) [Theory of functions and differential equations] Edited by Z. I. Kozlova. Volgograd Pedagogical Institute. *Izdat. Saratov. Univ., Saratov,* 1966. 60 *pp.* (Editors) 35 #1430

* Вопросы интегрирования дифференциальных уравнений. (Russian) Problems of integration of differential equations. Samarkand State University. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1966. 273 *pp.* (Editors) 35 #1905

* Функциональный анализ. Некоторые вопросы теории дифференциальных уравнений и теории функций. (Russian) Functional analysis. Certain problems in the theory of differential equations and the theory of functions] Academy of Sciences of the Azerbaijan SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. 214 *pp.* (Editors) 35 #1427

* Вопросы теории и истории дифференциальных уравнений. (Russian) [Problems in the theory and history of differential equations] *"Naukova Dumka", Kiev,* 1968. 183 *pp.* (Editors) 37 #3883

* Специальные вопросы функционального анализа и их применения к теории дифференциальных уравнений и теории функций. (Russian) [Special problems of functional analysis and their applications to the theory of differential equations and the theory of functions] Academy of Sciences of the Azerbaijan SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. 188 *pp.* (Editors) 39 #1931

* Материалы республиканского симпозиума по дифференциальным уравнениям (Одесса, 1968 г.). (Russian) [Abstracts of the Republican Symposium on Differential Equations (Odessa, 1968)] *Odesskiĭ Gosudarstv. Univ., Odessa,* 1968. 236 *pp.* (Editors) 40 #7054

* Lectures in differential equations. Vol. I. Edited by A. K. Aziz. Van Nostrand Mathematical Studies, No. 18. *Van Nostrand; Reinhold Co, New York-Toronto, Ont.-London,* 1969. vii + 199 *pp.* (Editors) 39 #3069

* Некоторые вопросы дифферинциальных уравнений. (Russian) [Certain problems in differential equations] Academy of Sciences of the Kazakh SSR. Institute of Matheamtics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. 146 *pp.* (Editors) 39 #3068

* Proceedings of the Steklov Institute of Mathematics, No. 91 (1967): Boundary problems for differential equations. Edited by V. P. Mihaĭlov. Translated from the Russian by Andrew Yablonsky. *American Mathematical Society, Providence, R. I.,* 1969. vi + 178 *pp* (Editors) 40 #4047

* Seminar on Differential Equations and Dynamical Systems (University of Maryland, August, 1967). Edited by G. Stephen Jones. Lecture Notes in Mathematics, No. 60. *Springer-Verlag, Berlin-New York,* 1968. iv + 106 *pp.* (Editors) 38 #1362

* Програма межвузовской конференции по качественной теории дифференциальных уравнений. (Рязань, 15-19 сентября 1969г.). (Russian) [Program of the Intercollegiate Conference on the Qualitative Theory of Differential Equations (Ryazan, September 15-19, 1969)] *Rjazan. Gosudarstv. Ped. Inst., Ryazan,* 1969. 124 *pp.* (Editors) 41 #2096

* Качественные методы в теории обыкновенных дифференциальных уравнений и небесной механике. (Russian) [Qualitative methods in the theory of ordinary differential equations and celestial mechanics] Abstracts of reports and papers presented at a Symposium sponsored by the Astronomy Council of the Academy of Sciences of the USSR, the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR and the Institute of Mathematics with Computing Center of the Moldavian SSR. *Redakcionno Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 57 *pp.* (Editors) 40 #4529

* Conference on the Numerical Solution of Differential Equations (Dundee, Scotland, June 23-27, 1969). Edited by J. Ll. Morris. Lecture Notes in Mathematics, Vol. 109. *Springer-Verlag, Berlin-New York,* 1969. vi + 275 *pp.* (Editors) 42 #2670

Bibliography of journal articles. (Russian) *Differencial'nye Uravnenija* 5 (1969), 581-588. (Editors) 39 #2569

(See Šakun, A. R., 39 #5287)

* Специальные вопросы дифференциальных уравнений и теории функций. (Russian) [Special questions on differential equations and function theory] *Izdat. "Èlm", Baku,* 1970. 130 *pp.* (Editors) 42 #2905

* Краевые задачи для дифференциальных уравнений. 1. (Russian) [Boundary vlaue problems for differential equations. 1] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1971. 154 *pp.* (Editors) 44 #3009

Differential equations and their applications

* Differential equations and their applications. Proceedings of a Conference held in Prague, September, 1962. Scientific Editor: Ivo Babuška; reviewer: Miloš Zlámal. *Publishing House of the Czechoslovak Academy of Sciences, Prague: Academic Press, New York-London,* 1963. 247 *pp.* (Editors) 29 #4938

* Исследования по дифференциальным уравнениям и их применению. (Russian) [Studies in differential equations and their application] *Izdat. "Nauka", Alma-Ata,* 1965. 200 *pp.* (Editors) 32 #1432

* Дифференциальные уравнения и их применение. (Russian) [Differential equations and their application] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. 148 *pp.* (Editors) 35 #5679

* Differential equations and their applications. Equadiff II. Proceedings of the Conference held in Bratislava in September, 1966. Published in the Journal Acta Facultatis Rerum Naturalium Universitatis Comenianae Mathematica. Publ. XVII. *Slovenské Pedagogické Nakladatel'stvo, Bratislava,* 1967. 322 *pp.* (Editors) 40 #2938

Differential equations and their applications in engineering

* Дифференциальные уравнения и их применение в технике. (Russian) [Differential equations and their applications in engineering] Riga Politechnical Institute. *Izdat. "Zinatne", Riga,* 1968. 108 *pp.* (Editors) 39 #1711

Differential equations with deviating argument

* Третья научная конференция факультета физико-математических и естественных наук (Университет Дружбы Народов имени Патриса Лумумбы, Москва, 1967). (Russian) [Third Scientific Conference of the Faculty of Physical-Mathematical and Natural Sciences (Patrice Lumumba Friendship of Nations University, Moscow, 1967)] Subsection of differential equations with deviating argument. Summaries of the results. *Univ. Družby Narodov im. Patrisa Lumumby, Moscow,* 1967. 113 *pp.* (Editors) 39 #1825

Differential equations and dynamical systems

* Differential equations and dynamical systems. Proceedings of an International Symposium held at the University of Puerto Rico, Mayaguez, Puerto Rico, December 27-30, 1965. Edited by Jack K. Hale and Joseph P. LaSalle. *Academic Press, New York-London,* 1967. xvii + 544 *pp. (1 plate)* (Editors) 36 #3

Differential equations of mathematical physics

* Интегрирование некоторых дифференциальных уравнений математической физики. (Russian) [Integration of certain differential equations of mathematical physics] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. 256 *pp.* (Editors) 33 #2924

Differential and Functional Equations

* Proceedings United States-Japan Seminar on Differential and Functional Equations. Held at the University of Minnesota, Minneapolis, Minn., June 26-30, 1967. Edited by William A. Harris, Jr. and Yasutaka Sibuya. *W. A. Benjamin, Inc., New York-Amsterdam,* 1967. xvi + 585 *pp.* (Editors) 36 #5415

Differential games and related topics

* Differential games and related topics. Proceedings of the International Summer School on Mathematical Models of Action and Reaction, held in Varenna, Italy, June 15-27, 1970. Edited by H. W. Kuhn and G. P. Szegö. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Inc., New York,* 1971. x + 489 *pp.* (Editors) 42 #8939

Differential games: Theory and applications

* Differential games: Theory and applications. A Symposium of the American Automatic Control Council. 1970 (Eleventh) Joint Automatic Control Conference (Georgia Institute of Technology, Atlanta, Ga., June 26, 1970). *The American Society of Mechanical Engineers, New York,* 1970. iv + 143 *pp.* (Editors) 41 #8049

Differentialgeometrie und Topologie

* Differentialgeometrie und Topologie. Internationales Kolloquium, Zürich, 1960. Monographies de L'Enseignement Mathématique, No. 11. *L'Enseignement Mathématique, Université, Genève,* 1962. 159 *pp.* (Editors) 29 #4651

Differential geometry

* Conferenze generali e simposio di geometria differenziale. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 6 (1961/62). *Seminario Matematico dell' Università, Messina,* 1962. ii + 190 *pp.* (Editors) 39 #6703a

* Proceedings of the United States-Japan Seminar in Differential Geometry, Kyoto, Japan, 1965. *Nippon Hyoronsha Co., Ltd., Tokyo,* 1966. ix + 177 *pp.* (Editors) 35 #3552

* Actas del Segundo Colóquio Internacional sobre Geometría Diferencial (Santiago, 25-28 Octubre 1967). (Spanish) [Proceedings of the Second International Colloquium on Differential Geometry (Santiago, 25-28 October, 1967)] Congresos y Coloquios de la Universidad de Santiago de Compostela. *University of Santiago de Compostela, Department of Geometry and Topology of the Faculty of Sciences, Santiago de Compostela; International Mathematical Union,* 1968. iv + 64 *pp. (1 plate)* (Editors) 40 #6382

Differential geometry and calculus of variations

* Translations, Ser. 1, Vol. 6: Differential geometry and calculus of variations. *American Mathematical Society, Providence, R. I.,* 1962. ii + 511 *pp.* (Editors) 38 #4251

Differential and integral equations

* Материалы шестой межвузовской физико-математической научной конференции Дальнего Востока. Том 3: Дифференциальные и интегральные уравнения. (Russian) [Proceedings of the Sixth Interuniversity Scientific Conference of the Far East on Physics and Mathematics. Vol. 3: Differential and Integral equations] *Habarovsk. Gosudarstv. Ped. Inst., Khabarovsk,* 1967. 247 *pp.* (Editors) 40 #7060

* Труды семинара по дифференциальным и интегральным уравнениям. Вып. I. (Russian) [Proceedings of the Seminar on Differential and Integral Equations. No. I] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 350 *pp.* (Editors) 42 #3333

Differentialgleichungen

* Numerische Mathematik. Differentialgleichungen. Approximationstheorie. Vortragsauszüge der Tagung über Numerische Behandlung von Differentialgleichungen vom 20. bis 25. Juni 1966 und der Tagung über Numerische Analysis, insbesondere Approximationstheorie vom 13. bis 19. November 1966 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald) Herausgegeben von L. Collatz, G. Meinardus und H. Unger. International Series of Numerical Mathematics (ISNM), Vol. 9. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. 401 *pp.* (Editors) 42 #7

Diffraction problems

* Проблемы математической физики. Вып. 2. Спектральная теория. Задачи дифракции. (Russian) [Problems of mathematical physics. No. 2. Spectral theory. Diffraction problems] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1967. 158 *pp.* (Editors) 38 #1975

Digital computation

* Error in digital computation. Vol. 1. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, October 5-7, 1964) Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney,* 1965. xi + 324 *pp.* (Editors) 30 #5510

* Error in digital computation. Vol. 2. Proceedings of a Symposium conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, Wis., April 26-28, 1965). Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney,* 1965. x + 288 *pp.* (Editors) 32 #1926

Digital computer needs in universities and colleges

* Digital computer needs in universities and colleges. A report of the Committee on Uses of Computers, National Academy of Sciences-National Research Council. Publication 1233. *National Academy of Sciences-National Research Council, Washington, D. C.,* 1966. xiii + 176 *pp.* 33 #3854

Digital computer technology and programming

* Цифровая вычислительная техника и программирование. Вып. 4. (Russian) [Digital computer technology and programming. No. 4] *Izdat. "Sovetskoe Radio", Moscow,* 1968. 192 *pp.* (Editors) 42 #3970

* Цифровая вычислительная техника и программирование. Вып. 5. (Russian) [Digital computer technology and programming. No. 5] *Izdat. "Sovetskoe Radio", Moscow,* 1969. 224 *pp.* (Editors) 43 #1476

Digital computers

* Proceedings of a Harvard symposium on digital computers and their applications, April 3-6, 1961. Annals of the Computational Laboratory of Harvard University, Vol. XXXI. *Harvard University Press, Cambridge, Mass.,* 1962. xiv + 332 *pp.* (Editors) 35 #5158

* Mathematical methods for digital computers. Vol. II. Edited by Anthony Ralston and Herbert S. Wilf. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 287 *pp.* (Editors) 35 #2516

Diophantine arithmetic. The algebra of the ancient Greeks

* Diophantine arithmetic. The algebra of the ancient Greeks. Ancient text translated and edited by Evangelos S. Stamatis. *Organization for the Publication of Textbooks, Athens,* 1963. 573 *pp.* (T. M. Apostol) 33 #2498

Directory of selected scientific institutions in the U.S.S.R.

* Directory of selected scientific institutions in the U.S.S.R. With an introduction to the administration of science and technology in the U.S.S.R. Prepared by Battelle Memorial Institute for the National Science Foundation. *Charles E. Merrill Books, Inc., Columbus, Ohio,* 1963. vii + 1409 *pp.* 30 #4645

Discontinuous subgroups

* Proceedings of Symposia in Pure Mathematics. Vol. IX: Algebraic groups and discontinuous subgroups. Held at the University of Colorado, Boulder, Colo., July 5-August 6, 1965. Edited by Armand Borel and George D. Mostow. *American Mathematical Society, Providence, R. I.,* 1966. vii + 426 *pp.* (Editors) 34 #2381

Discourses on the history of mathematics of the Sung and Yüan period

* Sung Yüan shu hsüeh shih lun wen chi. (Chinese) [Discourses on the history of mathematics of the Sung and Yüan period] *Science Press, Peking,* 1966. iii + 303 *pp.* (Table of contents) 34 #2403

Discrete mathematics

* Colloquium discrete wiskunde. (Dutch) [Colloquium on discrete mathematics] MC Syllabus, 5. *Mathematisch Centrum, Amsterdam,* 1968. iii + 108 *pp.* (Editors) 40 #1

Discrete and self-adjusting systems
* Дискретные и самонастраивающиеся системы. (Russian) [Discrete and self-adjusting systems] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basel, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 501 *pp.* (Editors) 32 #7268c

Discussion of the papers by Dr. Wishart, Professor Whittle and Dr. Bather
Discussion of the papers by Dr. Wishart, Professor Whittle and Dr. Bather. Symposium on Control Theory. *J. Roy. Statist. Soc. Ser. A* 132 (1969), 345-352. (G. M. Ewing) 40 #8464

Dispersion and absorption of sound by molecular processes
* Dispersion and absorption of sound by molecular processes. Proceedings of the International School of Physics "Enrico Fermi", Course XXVII, Varenna on Lake Como, Villa Monastero, August 6-August 18, 1962. Edited by D. Sette. *Academic Press, New York-London,* 1963. xi + 443 *pp. (1 plate)* (Editors) 29 #4483

Dispersion relations and their connection with causality
* Dispersion relations and their connection with causality. Proceedings of the International School of Physics "Enrico Fermi", Course XXIX, Varenna on Lake Como, Villa Monastero, 15th July-3rd August 1963. Edited by E. P. Wigner. *Academic Press, New York-London,* 1964. xvi + 256 *pp. (1 plate)* (P. Roman) 29 #4475

Dniester notebook: Unsolved problems in the theory of rings and modules
* Днестровская тетрадь: Нерешенные задачи теории колец и модулей. (Russian) [The Dniester notebook: Unsolved problems in the theory of rings and modules] First All-Union Symposium on the Theory of Rings and Modules (Kishinev, 1968). *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 20 *pp.* (Editors) 40 #7294

Dualité de Poincaré
* Séminaire Heidelberg-Strasbourg, 1966/67: Dualité de Poincaré. Publication I.R.M.A. Strasbourg, No. 3. *Institut de Recherche Mathématique Avancée, Laboratoire Associé au C.N.R.S., Université de Strasbourg, Strasbourg,* 1969. ii + 219 *pp. (not consecutively paged)* (Editors) 40 #6534

Dynamic programming
* Dynamic Programming. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 1. Edited by T. Kitagawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 52 *pp.* (Editors) 30 #2931

Dynamics of rockets and satellites
* Dynamics of rockets and satellites. Edited by G. V. Groves. *North-Holland Publishing Co., Amsterdam,* 1965. xi + 313 *pp.* (P. R. Arendt) 32 #2177

Dynamic structures
* Dynamic stability of structures. Proceedings of an International Conference held at Northwestern University, Evanston, Illinois, October 18-20, 1965. Edited by George Herrmann. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1967. ix + 313 *pp. (11 plates)* (Editors) 34 #2395

Eastern Theoretical Physics Conf.
* Proceedings of the Eastern Theoretical Physics Conference, October 26th-27th, 1962. Edited by M. E. Rose. *Gordon and Breach Science Publishers, New York-London,* 1963. viii + 462 *pp.* (J. Mathews) 32 #5040

École normale supérieure de jeunes filles
* Colloque d'algèbre [6-7 mai 1967. Paris]. École normale supérieure de jeunes filles. *Secrétariat mathématique, Paris,* 1968. v + 64 *pp. (not consecutively paged)* (Editors) 38 #5543

Economic calculus
* Calcul economic. (Romanian) [Economic calculus] Edited by Manea Mănescu. *Editura Academiei Republicii Populare Romîne, Bucharest,* 1964. 1051 *pp. (25 foldouts)* (Editors) 33 #8205

Economic cybernetics and systems theory
* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 5: Экономическая кибернетика и системотехника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 5: Economic cybernetics and systems theory] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 201 *pp.* (Editors) 43 #1788e

Economic functions
* Математические методы в экомике. Вып. 5: Экономические функции и вопросы оптимального планирования в сельском хозяйстве. Типовые программы для ЭВМ. (Russian) [Mathematical methods in economics. No. 5: Economic functions and questions of optimal planning in agriculture. Standard programs for electronic computers] *Izdat. "Zinatne", Riga,* 1969. 123 *pp. (1 foldout)* (Editors) 42 #5615

Economic-mathematical models
* Экономико-математические модели. (Russian) [Economic-mathematical models] Supplement to Èkonom. i Mat. Metody. Collection No. 2 (1969). *Izdat. "Nauka", Moscow,* 1969. 160 *pp.* (Editors) 43 #5893

Economic models, estimation and risk programming
* Economic models, estimation and risk programming: Essays in honor of Gerhard Tintner. Edited by K. A. Fox, J. K. Sengupta and G. V. L. Narasimham. Lecture Notes in Operations Research and Mathematical Economics, No. 15. *Springer-Verlag, Berlin-New York,* 1969. viii + 461 *pp.* (Editors) 40 #2336

Èkonom. i Mat. Metody
* Математические методы решения экономических задач. (Russian) [Mathematical methods of solution of economic problems] Supplement to Èkonom. i Mat. Metody. Colleciton No. 1 (1969). *Izdat. "Nauka". Moscow,* 1969. 176 *pp.* (Editors) 43 #5892
* Экономико-математические модели. (Russian) [Economic-mathematical models] Supplement to Èkonom. i Mat. Metody. Collection No. 2 (1969). *Izdat. "Nauka", Moscow,* 1969. 160 *pp.* (Editors) 43 #5893

Elasticity and plasticity
* Исследования по упругости и пластичности. Сборник 4. (Russian) [Studies in elasticity and plasticity. Vol. IV] *Izdat. Leningrad. Univ., Leningrad,* 1965. 219 *pp.* (Editors) 33 #921

Electronics in Mainland China
* Electronics in Mainland China. 1965, Part III. Translated from the Chinese by Scripta Electronica. *Institute of Electrical and Electronics Engineers, New York,* 1969. (Editors) 43 #4

Elementary particle and high energy physics
* Elementary particle and high energy physics. 1963 Lectures given at the Cargèse Summer School of Theoretical Physics. Edited by M. Levy and Ph. Meyer. *Gordon and Breach, New York-London-Paris,* 1965. vi + 362 *pp.* (Editors) 31 #1964

Elementary particle physics, selected topics on
* Argomenti scelti sulla fisica delle particelle elementari, Selected topics on elementary particle physics. Edited by M. Conversi. Italian Physical Society. Proceedings of the International School of Physics "Enrico Fermi", Course XXVI. Varenna on Lake Como, July 23-August 4, 1962. *Academic Press, New York-London,* 1963. xi + 294 *pp.* (Table of contents) 32 #8831

Elementary particle theories
* Elementary particle theories. Proceedings of the V. Internationale Universitätswochen für Kernphysik 1966 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 24th February-9th March, 1966. Edited by Paul Urban. Acta Phys. Austriaca, Suppl. III. *Springer-Verlag New York, Inc., New York,* 1966. iv + 463 *pp.* (Table of contents) 34 #3888

Elementary particles
* High-energy physics and elementary particles. Lectures presented at the seminar on high-energy physics and elementary particles, organized by and held at the International Centre for Theoretical Physics, Trieste, May 3 to June 30, 1965. *International Atomic Energy Agency, Vienna,* 1965. xvii + 1006 *pp.* (Editors) 33 #8183
* Теоретическая физика и физика элементарных частиц. Слабое взаимодействие элементарных частиц. (Russian) [Theoretical physics and elementary particle physics. Weak interaction of elementary particles] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 194 *pp (errata insert)* (Editors) 34 #2285
* Вопросы физики элементарных частиц. (Russian) [Problems in elementary particles physics] Spring School of Experimental and Theoretical Physics, Erevan, May 18-28, 1965. Edited by A. I. Alihanjan. State Committee of the Council of Ministers of the USSR for the Utillzation of Atomic Energy. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1966. 754 *pp.* (Editors) 33 #8184
* Mathematical theory of elementary particles. Proceedings of the Conference on the Mathematical Theory of Elementary Particles, held at Endicott House, in Dedham, Mass., September 12-15, 1965. Edited by Roe Goodman and Irving Segal. *The M.I.T. Press, Cambridge, Mass.-London,* 1966. vii + 188 *pp.* (Editors) 34 #7134
* Topics in elementary particle theory. Proceedings of the International Seminar on Elementary Particle Theory (Varna, Bulgaria, May 6-19, 1968). *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (Editors) 40 #3802

Elliptische Differentialgleichungen
* Elliptische Differentialgleichungen. Band I. Kolloquium von 17. August—24. August 1969 in Berlin. Herausgegeben von Gottfried Anger. Schriftenreihe der Institute für Mathematik, Reihe A: Reine Mathematik, Heft 7. *Akademie-Verlag, Berlin,* 1970. viii + 208 *pp.* (Editors) 42 #6396

Empirical Bayes estimation and computing in statistics
* Proceedings of the Symposium on Empirical Bayes Estimation and Computing in Statistics. Held at the Department of Mathematics, Texas Tech. University, Lubbock, Texas, August, 1969. Edited by Thomas A. Atchison and Harry F. Martz, Jr. Mathematics Series, No. 6. *The Texas Tech. Press, Texas Tech. University, Lubbock, Tex.*, 1970. iv + 255 *pp.* (Editors) 41 #4730

Encyclopedias
* Kleine Enzyklopädie Mathematik. Zweite Auflage. *VEB Verlag Enzyklopädie, Leipzig*, 1967. 837 *pp.* *(72 plates)* (Editors) 35 #1431

Encyclopédie de la Pléiade
* Astronomie. Volume publié sous la direction d'Evry Schatzman. Encyclopédie de la Pléiade, Vol. XIII. *Librairie Gallimard, Paris*, 1962. xxiii + 1834 *pp.* (J. M. A. Danby) 29 #5623

Engineering cybernetics
* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 2: Техническая кибернетика. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 2: Engineering cybernetics] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev*, 1970. 220 *pp.* (Editors) 43 #1788b

Engineering plasticity
* Engineering plasticity. Papers for a Conference held in Cambridge, March 1968. Edited by J. Heyman and F. A. Leckie. *Cambridge University Press, London-New York*, 1968. vi + 706 *pp.* (Editors) 43 #1490

English-Russian dictionary of computing technology
* Англо-русский словарь по вычислительной технике. (Russian) [English-Russian dictionary of computing technology] Compiled by V. K. Zeĭdenberg, A. V. Avaev, Ju. L. Ziman, A. N. Zimarev, V. V. Ivanov, L. N. Korolev, T. S. Loseva, E. V. Tarovatova; edited by S. A. Lebedev. *Izdat. "Sovetskaja Enciklоped.", Moscow*, 1964. 279 *pp.* (Editors) 31 #2108

Entire functions and related parts of analysis
* Entire functions and related parts of analysis. Edited by Jacob Korevaar, S. S. Chern, Leon Ehrenpreis, W. H. J. Fuchs and L. A. Rubel. Proceedings of Symposia in Pure Mathematics, Vol. XI. *American Mathematical Society, Providence, R. I.*, 1968. vi + 554 *pp.* (Editors) 38 #1258

Enzyklopädie der geisteswissenschaftlichen Arbeitsmethoden
* Enzyklopädie der geisteswissenschaftlichen Arbeitsmethoden. 3. Lieferung: Methoden der Logik und Mathematik. Statistische Methoden. Dargestellt von Hans Hermes und Erich Mittenecker. *R. Oldenbourg Verlag, Munich-Vienna*, 1968. ii + 141 *pp.* (Editors) 38 #961

Epidemiology
WHO Symposium on Quantitative Epidemiology, Moscow, 23-27 November, 1970. *Advances in Appl. Probability* 3 (1971), 193-228. (Editors) 44 #5129

Épimorphismes d'anneaux
* Séminaire d'Algèbre Commutative dirigé par Pierre Samuel: 1967/68. Les épimorphismes d'anneaux. *Secrétariat mathématique, Paris*, 1968. ii + 111 *pp.* *(not consecutively paged)* (M. Nagata) 39 #6867

Équations aux dérivées partielles
* Équations aux dérivées partielles. Séminaire de Mathématiques Supérieures, No. 19 (Été, 1965). *Les Presses de l'Université de Montréal, Montreal, Que.*, 1966. 142 *pp.* (Editors) 39 #5909

Equations of mathematical physics
* Shu-hsüeh wu-li fang-cheng. Ti san ts'e. (Chinese) [Equations of mathematical physics. Vol. III] Edited by Wu Hisn-mou and others. *Science Press, Peking*, 1959. iv + 338 *pp.* (T. P. Lin) 34 #3053

Equations of mathematical physics and functional analysis
* Уравнения математической физики и функциональный анализ. (Russian) [Equations of mathematical physics and functional analysis] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata*, 1966. 180 *pp.* (Editors) 34 #1129

Equazioni differenziali astratte
* Equazioni differenziali astratte. Centro Internazionale Matematico Estivo (C.I.M.E.) 1° Ciclo, Varenna, Villa Monastero, 30 maggio-8 giugno, 1963. *Edizioni Cremonese, Rome*, 1964. 250 *pp.* *(not consecutively paged)* (Editors) 36 #6755

Equazioni differenziali non-lineari
* Equazioni differenziali non-lineari. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, Varenna (Como), 31 agosto-8 settembre, 1964, diretto dal Guido Stampacchia. *Edizioni Cremonese, Rome*, 1966. 357 *pp.* (Editors) 36 #6756

Ergebnisse der exakten Naturwissenschaften
* Ergebnisse der exakten Naturwissenschaften. Band 36. Herausgegeben von G. Höhler. Unter Mitwirkung von S. Flügge, F. Hund und F. Trendelenburg. Schriftleitung E. A. Niekisch. *Springer-Verlag, Berlin-Göttingen-Heidelberg*, 1964. 242 *pp.* (Editors) 32 #7034
* Ergebnisse der exakten Naturwissenschaften. 37. Band. Herausgegeben von G. Höhler. *Springer-Verlag, Berlin-New York*, 1965. iii + 180 *pp.* (Editors) 33 #2119

Ergodic theory
Cycle of articles on ergodic theory. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 3-172. (Editors) 35 #5577
* Contributions to ergodic theory and probability. Proceedings of the First Midwestern Conference on Ergodic Theory, held at the Ohio State University, March 27-30, 1970. Organized by Louis Sucheston. Lecture Notes in Mathematics, Vol. 160. *Springer-Verlag, Berlin-New York*, 1970. vii + 278 *pp.* (Editors) 42 #3256

Error correcting codes
* Error correcting codes. Proceedings of a symposium conducted by the Mathematics Research Center, United States Army at the University of Wisonsin, Madison, Wis., May 6-8, 1968. *John Wiley & Sons, Inc., New York-London-Sydney*, 1968. xi + 231 *pp.* (Editors) 38 #3071

Erroe in digital computation
* Error in digital computation. Vol. 1. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, Wis. October 5-7, 1964) Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney*, 1965. xi + 324 *pp.* (Editors) 30 #5510
* Error in digital computation. Vol. 2. Proceedings of a Symposium conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, Wis., April 26-28, 1965). Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney*, 1965. x + 288 *pp.* (Editors) 32 #1926

Espaces analytiques
* Espaces analytiques (Bucarest, 25-30 september, 1969). Séminaires de l'Institut de Mathématique de l'Académie de la République Socialiste de Roumanie. *Éditions de l'Académie de la République Socialiste de Roumanie, Bucharest*, 1971. 171 *pp.* (Editors) 43 #2242

Essays on Bertrand Russell
* Essays on Bertrand Russell. Edited by E. D. Klemke. *University of Illinois Press, Urbana, Ill.-London*, 1970. xi + 458 *pp.* (W. S. Hatcher) 42 #2927

Essays in mathematical economics in honor of Oskar Morgenstern
* Essays in mathematical economics in honor of Oskar Morgenstern. Edited by Martin Shubik. *Princeton University Press, Princeton, N. J.*, 1967. xx + 475 *pp.* *(1 plate)* (Editors) 34 #5506

Essays in probability and statistics
* Essays in probability and statistics. Edited by R. C. Bose, I. M. Chakravarti, P. C. Mahalanobis, C. R. Rao and K. J. C. Smith. Dedicated to the memory of Samarendra Nath Roy. The University of North Carolina Monograph Series in Probability and Statistics, No. 3. *The University of North Carolina Press, Chapel Hill, N. C.* 1970. xviii + 750 *pp.* (Editors) 41 #9310

Essays on topology and related topics
* Essays on topology and related topics. Mémoires dédiés à Georges de Rham. Publiés sous la direction de André Haefliger et Raghavan Narasimhan. *Springer-Verlag, New York-Berlin*, 1970. xii + 252 *pp.* *(1 plate)* (Editors) 41 #2690

Estimation
* Economic models, estimation and risk programming: Essays in honor of Gerhard Tintner. Edited by K. A. Fox, J. K. Sengupta and G. V. L. Narasimham. Lecture Notes in Operations Research and Mathematical Economics, No. 15. *Springer-Verlag, Berlin-New York*, 1969. viii + 461 *pp.* (Editors) 40 #2336

Leonhard Euler: Correspondence: Annotated bibliography
* Леонард Эйлер: Переписка: Аннотированный указатель. (Russian) [Leonhard Euler: Correspondence: Annotated bibliography] Edited by A. P. Juškevič and V. I. Smirnov. Compiled by T. N. Klado, Ju. H. Kopelevič, T. A. Lukina, I. G. Mel′nikov, V. I. Smirnov, A. P. Juškevič, with the assistance of D.-R. Biermann and F.-G. Lange. Academy of Sciences of the USSR. Institute of History of Natural Sciences and Technology. *Izdat. "Nauka"-Leningrad. Otdel., Leningrad*, 1967. 391 *pp.* *(errata insert)* (Editors) 36 #1270

Leonard Euler and Christian Goldbach
(See Luzin, N. N., 33 #2503)
Leonard Euler und Christian Goldbach. Briefwechsel 1729-1764. Herausgegeben und eingeleitet von A. P. Juškevič und E. Winter. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Philos., Gesch., Staats-, Rechts-, Wirtschaftswiss.* 1965, *no.* 1, ix + 420 *pp.* (S. C. van Veen) 34 #1144

Experimental physics
* Programming and computer techniques in experimental physics. Edited by D. V. Skobel'cyn. Translated from the Russian. Proceedings (Trudy) of the P. N. Lebedev Physics Institute, Vol. 45. *Consultants Bureau, New York-London,* vi + 126 *pp.* (Editors) 41 #9464

Explorations in mathematical anthropology
* Explorations in mathematical anthropology. Edited by Paul Kay. *The M.I.T. Press, Cambridge, Mass.-London,* 1971. xviii + 286 *pp.* (Table of contents) 42 #7306

Exposés sur la cohomologie des schémas
* Dix exposés sur la cohomologie des schémas. Advanced Studies in Pure Mathematics, Vol. 3. *North-Holland Publishing Co., Amsterdam; Masson & Cie, Editeur, Paris,* 1968. vi + 386 *pp.* (Editors) 39 #2777

Extension theory
* Contributions to extension theory of topological structures. Proceedings of the Symposium held in Berlin, August 14-19, 1967. Edited by J. Flachsmeyer, H. Poppe and F. Terpe. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 279 *pp. (loose errata)* (Editors) 39 #6268

Extremal problems of the geometric theory of functions
* Proceedings of the Steklov Institute of Mathematics, No. 94 (1968): Extremal problems of the geometric theory of functions. Edited by Ju. E. Alenicyn. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.,* 1969. vi + 167 *pp.* (Editors) 39 #2963

Extremal properties of polynomials
* Proceedings of the Steklov Institute of Mathematics, Number 78 (1965). Extremal properties of polynomials. Edited by S. B. Stečkin. Translated from the Russian by R. P. Boas. *American Mathematical Society, Providence, R. I.,* 1967. iii + 90 *pp.* (Editors) 35 #6501

Fermi International School of Physics
* Argomenti scelti sulla fisica delle particelle elementari. Selected topics on elementary particle physics. Edited by M. Conversi. Italian Physical Society. Proceedings of the International School of Physics "Enrico Fermi", Course XXVI. Varenna on Lake Como, July 23-August 4, 1962. *Academic Press, New York-London,* 1963. xi + 294 *pp.* (Table of contents) 32 #8831

Festband zum 70. Geburtstag von Rolf Nevanlinna
* Festband zum 70. Geburtstag von Rolf Nevanlinna. Vorträge, gehalten anlässlich des Zweiten Rolf Nevanlinna-Kolloquiums in Zürich vom 4.-6. November 1965. Herausgegeben von H. P. Künzi and A. Pfluger. *Springer-Verlag, Berlin-New York,* 1966. iii + 149 *pp. (1 plate)* (Editors) 34 #2386

Festschrift zur Gedächtnisfeier für Karl Weierstrass
* Festschrift zur Gedächtnisfeier für Karl Weierstrass 1815-1965. Herausgegeben von Heinrich Behnke und Klaus Kopfermann. Wissenschaftliche Abhandlungen der Arbeitsgemeinschaft für Forschung des Landes Nordrhein-Westfalen, Band 33. *Westdeutscher Verlag, Cologne,* 1966. 612 *pp.* (Editors) 33 #3858

Festschrift for J. Neyman
* Research papers in statistics. Festschrift for J. Neyman. F. N. David, editor. Assisted by Evelyn Fix. *John Wiley & Sons, London-New York-Sydney,* 1966. viii + 468 *pp. (1 plate)* (Editors) 34 #8514

Festschrift für Kurt Vogel
* Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte. Kurt Vogel zum 80. Geburtstag am 30. September 1968 gewidmet von Mitarbeitern und Schülern. *Forschungsinstitut des Deutschen Museums fur die Geschichte der Naturwissenschaften und der Technik, Munich,* 1968. 239 *pp. (16 plates)* (Editors) 38 #5547

La filosofia della matematica
* La filosofia della matematica. A cura di Carlo Cellucci. *Editori Laterza, Bari,* 1967. 323 *pp. (errata insert)* (H. B. Curry) 37 #27

Finite groups
* Конечные группы. (Russian) [Finite groups] Institute of Mathematics of the Byelorussian SSR. *Nauka i Tehnika, Minsk,* 1966. 192 *pp. (1 plate)* (Editors) 33 #2711
* Theory of finite groups: A symposium. Edited by Richard Brauer and Chih-han Sah. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. xiii 263 *pp. (erratum, p. xiii)* (Editors) 39 #1538

Fluid dynamics
* Basic developments in fluid dynamics, Vol. I. Edited by Maurice Holt. *Academic Press, New York-London,* 1965. xi + 447 *pp.* (Editors) 33 #3547

Fluid mechanics
* The mathematical problems in fluid mechanics. Institute of basic technical problems. Polish Academy of Sciences. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1967. 86 *pp.* (Editors) 37 #3807
* Proceedings of the Summer Seminar in Fluid Mechanics (May 1967). Edited by P. L. Bhatnagar. *Indian Institute of Science, Bangalore,* 1968. viii + 482 *pp.* (Editors) 38 #2988

Fluid Mechanics Conference
* Proceedings of the Sixth Scientific Conference sponsored by the Fluid Mechanics Division IPFT ASP held in Zakopane, September 2-9, 1963. *Published in Archiwum Mechaniki Stosowanej* 16 (1964), *pp.* 557-860. (Editors) 32 #1978

Fluid mechanics and singular perturbations: A collection of papers by Saul Kaplun
* Fluid mechanics and singular perturbations: A collection of papers by Saul Kaplun. Edited by Paco A. Lagerstrom, Louis N. Howard and Ching-shi Liu. *Academic Press, New York-London,* 1967. xii + 369 *pp.* (A. F. Messiter) 35 #5177

Fonction associée de première expèce $P_n^m(\cos\theta)$
* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce $P_n^m(\cos\theta)$. Deuxième fascicule: [*n:* -0,5(0,1)10] [*m:* 0(1)2] [θ: 0°(1°)180°]. Calculées pour le Centre National d'Études des Télécommunications, sous le contrôle du Laboratoire de Calcul de l'Université de Grenoble. Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C.N.E.T. Centre National d'Études des Télécommunications, Paris,* 1959. xii + 640 *pp. (3 plates)* (A. Erdélyi) 35 #1175a
* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce $P_n^m(\cos\theta)$. Troisième fascicule: [*N*= -0,5(0,1)10] [*M* = 3,4,5] [θ = 0°(1°)180°]. Calculées pour le Centre National d'Études des Télécommunications, par le Laboratoire de Calcul de l'Université de Grenoble Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C.N.E.T. Centre National d'Études des Télécommunications, Paris,* 1966. xii + 1296 *pp. (3 plates)* (A. Erdély 35 #1175b

Fonctions d'une variable complexe. Problèmes contemporains
* Fonctions d'une variable complexe. Problèmes contemporains. Recueil de Mémoires sous la rédaction de A. I. Markouchevitch; traduit par L. Nicolas. *Gauthier-Villars Éditeur, Paris,* 1962. 271 *pp.* (Editors) 31 #1360

I fondamenti del calcolo delle probabilità
* I fondamenti del calcolo delle probabilità. Atti della Tavola Rotonda tenuta a Poppi nei Giorni 11-12 Giugno 1966. A cura di Dario Fürst e Giuseppe Parenti. *Scuola di Statistica dell'Università, Florence,* 1967. 251 *pp.* (Editors) 36 #3384

Foreign language and English dictionaries in the physical sciences and engineering
(See Marton, Tibor W., 30 #4646)

Formalized synthesis of computers and systems
* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Семинар, Киев, 1968 г.). Вып. 3. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 104 *pp.* (Editors) 40 #1210
* Теория автоматов и методы формалезованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 4. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 4] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 114 *pp.* (Editors) 39 #6685
* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 5. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 5] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 111 *pp.* (Editors) 39 #6686

Formulaire de mathématiques
(See Campbell, Robert; Reeb, Georges, 29 #6082)

Forschungsberichte des Landes Nordrhein-Westfalen
* Forschungsberichte des Landes Nordrhein-Westfalen, Nr. 1870. *Westdeutscher Verlag, Cologne,* 1967. 38 *pp.* (Editors) 36 #2452
* Forschungsberichte des Landes Nordrhein-Westfalen, No. 1931. *Westdeutscher Verlag, Cologne,* 1968. 52 *pp.* (Editors) 38 #1973

* Forschungsberichte des Landes Nordrhein-Westfalen, No. 2078. *Westdeutscher Verlag, Cologne,* 1970. 60 *pp.* (Editors) 42 #2901

* Forschungsberichte des Landes Nordrhein-Westfalen, No. 2157. *Westdeutscher Verlag, Cologne,* 1970. 53 *pp.* (Editors) 43 #3059

Foundations of elasticity theory

* Continuum mechanics. III. Foundations of elasticity theory. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 310 *pp.* (Editors) 33 #1187c

Foundations of mathematics

* Foundations of mathematics. Symposium papers commemorating the sixtieth birthday of Kurt Gödel. Edited by Jack J. Bulloff, Thomas C. Holyoke and S. W. Hahn. *Springer-Verlag New York Inc., New York,* 1969. xii + 195 *pp. (1 plate)* (Editors) 39 #2594

Fourier analysis

* Theory of group representations and Fourier analysis. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Montecatini T., 25 giugno-4 luglio 1970. Coordinatore: F. Gherardelli. *Edizioni Cremonese, Rome,* 1971. ii + 330 *pp.* (Editors) 43 #7543

Die Fragmente des Eudoxos von Knidos

* Die Fragmente des Eudoxos von Knidos. Herausgegeben, übersetzt und kommentiert von François Lasserre. Texte und Kommentare: Eine altertumswissenschaftliche Reihe, Band 4. *Walter de Gruyter & Co., Berlin,* 1966. viii + 299 *pp.* (G. J. Toomer) 35 #4070

ranco-Russian scientific relations

* Русско-французские научные связи. (Russian and French) [Franco-Russian scientific relations] Edited by A. T. Grigor'jan, A. P. Juškevič in collaboration with T. N. Klado and Ju. H. Kopelevič. *Izdat. "Nauka" Leningrad. Otdel., Leningrad,* 1968. 298 *pp.* (Editors) 41 #6651

rege and Gödel. Two fundamental texts in mathematical logic

* Frege and Gödel. Two fundamental texts in mathematical logic. Edited by Jean van Heijenoort. *Harvard University Press, Cambridge, Mass.,* 1970. iv + 117 *pp. (loose errata)* (From the editor's preface) 41 #8202

riedrich-Schiller-Universität

* Galileo Galilei. 1564-1964. Akademische Festveranstaltung der Friedrich-Schiller-Universität anlässlich der 400. Wiederkehr des Geburtstages des grossen italienischen Gelehrten. Jenaer Reden und Schriften. *Friedrich-Schiller-Universität, Jena,* 1964. 86 *pp. (1 plate)* (C. J. Scriba) 31 #9

riendship of brotherly universities

* Дружба братских университетов (Bratislava, Brno, Debrecen, Krakŏw, Києв) (Russian) [Friendship of brotherly universities (Bratislava, Brno, Debrecen, Cracow, Kiev)] Kiev State Universtiy. *Izdat. Kiev, Univ., Kiev,* 1966. 244 *pp.* (Editors) 34 #5604

unction algebras

* Function algebras. Proceedings of an International Symposium on Function Algebras held at Tulane University, 1965. Edited by Frank T. Birtel. *Scott, Foresman and Co., Chicago, Ill.,* 1966. ix + 357 *pp.* (Editors) 33 #1691

* Papers from the Summer Gathering on Function Algebras at Aarhus, July 1969. Various Publications Series, No. 9. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. ii + 78 *pp.* (Editors) 40 #4771

unction theory

* Специальные вопросы дифференциальных уравнений и теории функций. (Russian) [Special questions on differential equations and function theory] *Izdat. "Èlm", Baku,* 1970. 130 *pp.* (Editors) 42 #2905

unctional analysis

* Некоторые вопросы функционального анализа и его применений. (Russian) [Some problems in functional analysis and its applications] Academy of Sciences of the Azerbaijani SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 171 *pp.* (Editors) 33 #3070

* Уравнения математической физики и функциональный анализ. (Russian) [Equations of mathematical physics and functional analysis] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1966. 180 *pp.* (Editors) 34 #1129

* Functional analysis. Proceedings of a Conference held at the University of California, Irvine, Calif., March 28-April 1, 1966. Edited by Bernard R. Gelbaum. *Academic Press, London; Thompson Book Co., Washington, D. C.,* 1967. v + 247 *pp.* (Editors) 36 #1947

* Analiza funkcjonalna. (Polish) [Functional analysis] A collection of articles edited by S. G. Kreĭn. Translated from the Russian by Ryszard Bittner. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1967. 419 *pp. (loose errata)* (Editors) 36 #3101

* Functional analysis. Edited by S. G. Kreĭn. Edited machine translation from the Russian. Foreign Technology Division MT-65-573. *U. S. Department of Commerce, National Bureau of Standards, Washington, D. C.,* 1968. ix + 352 *pp. (Distributed by Clearinghouse for Federal Scientific and Technical Information, Springfield, Va.)* (Editors) 38 #2560

* Специальные вопросы функциовального анализа и их применения к теории дифференциальных уравнений и теории функций. (Russian) [Special problems of functional analysis and their applications to the theory of differential equations and the theory of functions] Academy of Sciences of the Azerbaijan SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. 188 *pp.* (Editors) 39 #1931

* Труды семинара по функциональному анализу (Киев, 1968 г.). Вып. 1. (Russian) [Proceedings of the Seminar on Functional Analysis (Kiev, 1968). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. 276 *pp.* (Editors) 40 #3251

* Proceedings of the Functional Analysis Week (March 3rd-7th, 1969). Various Publications Series, No. 8. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. iii + 76 *pp.* (Editors) 40 #4716

* American Mathematical Society Translations. Series 2, Vol. 85: Twelve papers on functional analysis and geometry. *American Mathematical Society, Providence, R. I.,* 1969. iv + 258 *pp.* (Editors) 40 #5371

* Functional analysis. Proceedings of a Symposium held at Monterey, Calif., October 1969. Edited by Carroll O. Wilde. *Academic Press, New York-London,* 1970. vii + 162 *pp.* (Editors) 41 #4178

* Proceedings of the International Conference on Functional Analysis and Related Topics (Tokyo, April, 1969). Organized by the Mathematical Society of Japan under the co-sponsorship of the International Mathematical Union and the Science Council of Japan. *University of Tokyo Press, Tokyo,* 1970. xxxiii + 425 *pp.* (Editors) 41 #6642

* Межвузовская научная конференция по проблеме "Применение функционального анализа в теории приближений". Материалы конференции. (Russian) [Interuniversity Scientific Conference on the Problem "Application of Functional Analysis in Approximation Theory". Proceedings of the Conference] *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1970. 204 *pp.* (Editors) 42 #3481

Functional analysis. Certain problems in the theory of differential equations and the theory of functions

* Функциональный анализ. Некоторые вопросы теории дифференциальных уравнений и теории функций. (Russian) [Functional analysis. Certain problems in the theory of differential equations and the theory of functions] Academy of Sciences of the Azerbaijan SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaidzan. SSR, Baku,* 1967. 214 *pp.* (Editors) 35 #1427

Functional analysis and measure theory

* Translations, Ser. 1, Vol. 10: Functional analysis and measure theory. *American Mathematical Society, Providence, R. I.,* 1962. iii + 548 *pp.* (Editors) 38 #1985

Functional analysis and optimization

* Functional analysis and optimization. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1966. xiii + 225 *pp.* (Editors) 35 #2648

Functional analysis and related fields

* Functional analysis and related fields. Proceedings of a Conference in honor of Professor Marshall Stone, held at the University of Chicago, May 1968. Edited by Felix E. Browden. *Springer-Verlag, New York-Berlin,* 1970. v + 241 *pp. (1 plate)* (Editors) 42 #3532

Functional Analysis Symposium

* Daigo kai Functional Analysis Symposium. (Japanese) [The Fifth Functional Analysis Symposium] Tôhoku University, Sendai, August 1-3, 1967. *Mathematical Institute, Tôhoku University, Sendai,* 1967. 102 *pp.* (Editors) 43 #5

Functional analysis and the theory of functions

* Функциональный анализ и теория функций, Сборник I. (Russian) [Functional analysis and the theory of functions, No. I] *Izdat. Kazan. Univ., Kazan,* 1963. 139 *pp.* (Editors) 34 #6030

* Труды центрального зонального объединения математических кафедр. Вып. 1: Функциональный анализ и теория функций. (Russian) [Proceedings of the Central Regional Union of Mathematical Departments. No. 1: Functional analysis and function theory] *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1970. 148 *pp.* (Editors) 42 #4351

Fundamental particles

* Lectures in theoretical physics. Vol. VIII B: Fundamental particles and high energy physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. viii + 428 *pp.* (Editors) 34 #5403

* Lectures in theoretical physics. Vol. XB: High energy physics and fundamental particles. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. xiii + 708 *pp.* (Editors) 38 #4099b

Fundamential topics in relativistic fluid mechanics and magnetohydrodynamics

* Fundamential topics in relativistic fluid mechanics and magnetohydrodynamics. Proceedings of a Symposium held at Michigan State University, October, 1962. Edited by Robert Wasserman and Charles P. Wells. *Academic Press, New York-London,* 1963. x + 241 *pp.* (Editors) 30 #1721

Funktionalanalysis, Approximationstheorie, numerische Mathematik

* Funktionalanalysis, Approximationstheorie, numerische Mathematik. Vortragsauszüge der Tagung über numerische Probleme in der Approximations theorie vom 22. bis 25. Juni 1965, und der Tagung über funktionalanalytische Methoden in der Numerischen Mathematik vom 15. bis 20. November 1965, im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald). Herausgegeben von L. Collatz, G. Meinardus und H. Unger. Internationale Schriftenreihe zur Numerischen Mathematik, Vol. 7. *Birkhäuser Verlag, Basel-Stuttgart,* 1967. 232 *pp.* (Editors) 36 #4772

Funktionalanalytische Methoden der numerischen Mathematik

* Funktionalanalytische Methoden der numerischen Mathematik. Vortragsauszüge der Tagung über funktionalanalytische Methoden der numerischen Mathematik vom 19. bis 25. November 1967 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald). Herausgegeben von L. Collatz und H. Unger. ISNM Internationale Schriftenreihe zur Numerischen Mathematik, Vol. 12. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 143 *pp.* (Editors) 40 #2207

Funzioni e varietà complesse

* Funzioni e varietà complesse. Centro Internazionale Matematico Estivo (C.I.M.E.). 2° Ciclo, Varenna, Villa Monastero, 25 giugno-5 luglio, 1963. *Edizioni Cremonese, Rome,* 1964. 280 *pp. (not consecutively paged)* (Editors) 36 #6645

Future of statistics

* The future of statistics. Proceedings of a Conference on the Future of Statistics held at the University of Wisconsin, Madison, Wisconsin, June, 1967. Edited by Donald G. Watts. *Academic Press, New York-London,* 1968. xvi + 315 *pp.* (Editors) 38 #2856

Galen's Institutio Logica

* Galen's Institutio Logica. English translation, introduction, and commentary by John Spangler Kieffer. *The Johns Hopkins Press, Baltimore, Md.,* 1964. vii + 143 *pp.* (F. Krafft) 31 #2110

Gas dynamics

* Численные методы в Гаковой динамике. (Russian) [Numerical methods in gas dynamics] Collection of works of the Moscow State University Computing Center. No. 4. *Izdat. Moskov, Univ., Moscow,* 1965. 304 *pp.* (Editors) 34 #2392

General algebra

* Исследования по общей алгебре (Семинар). (Russian) [Studies in general algebra (Seminar)] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. Department of Algebra and Mathematical Logic. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. 155 *pp.* (Editors) 34 #1132

* Межвузовский научный симпозиум по общей алгебре. (Russian) [Interuniveristy Scientific Symposium on General Algebra] Reports, communications, summaries. *Tartu. Gos. Univ., Tartu,* 1966. 232 *pp.* (Editors) 33 #3859

* Исследования по общей алгебре. Ьып. 1. (Russian) [Studies in general algebra, No. 1] A collection of articles edited by V. D. Belousov. *Kišinev. Gosudarstv. Univ., Kishinev,* 1968. 130 *pp.* (Editors) 40 #5382

General mathematics

* New directions in mathematics. Dartmouth College Mathematics Conference (Nov. 3-4, 1961). Conference arranged by John G. Kemeny and Robin Robinson. Edited by Robert W. Ritchie. *Prentice Hall, Inc., Englewood Cliffs, N. J.,* 1963. iv + 124 *pp.* (L. K. Durst) 32 #1087

General relativity

* Recent developments in general relativity. *Pergamon Press, Oxford-New York-Paris; PWN—Polish Scientific Publishers, Warsaw,* 1962. 472 *pp.* (F. A. E. Pirani) 29 #1991

General systems theory

* Общая теория систем. (Russian) [General systems theory] Translated from the English by V. Ja. Altaev and È. L. Nappel'baum. *Izdat. "Mir", Moscow,* 1966. 187 *pp.* (Editors) 37 #1196

General topology

* Proceedings of the Washington State University Conference on General Topology (March, 1970). *Pi Mu Epsilon, Department of Mathematics, Washington State Univ., Pullman, Wash.,* 1970. iv + 136 *pp.* (Editors) 41 #9169

General topology and its relations to modern analysis and algebra

General topology and its relations to modern analysis and algebra. II. Proceedings of the Second Prague Topological Symposium, 1966. Scientific editor, J. Novák. *Academica [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 365 *pp.* (Editors) 38 #654

* General topology and its relations to modern analysis and algebra. III. Proceedings of the Kanpur Topological Conference, 1968. Scientific Editors: J. Novák, M. Venkataraman, G. T. Whyburn. Editors: S. P. Franklin, Z. Frolík, V. Koutník. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague; Academic Press, New York-London,* 1971. 332 *pp. (1 plate)* (Editors) 43 #5474

Generalized functions

* The applications of generalized functions. Papers presented at a Symposium held in Stony Brook, N. Y., September 12-14, 1966. SIAM J. Appl. Math. 15 (1967), 925-1111. *SIAM, Philadelphia, Pa.* 1967. (Editors) 36 #1973

Generalized inverses of matrices

* Proceedings of the Symposium on Theory and Application of Generalized Inverses of Matrices. Held at the Department of Mathematics, Texas Technological College, Lubbock, Texas, March, 1968. Edited by Thomas L. Boullion and Patrick L. Odell. Mathematics Series, No. 4. *Texas Tech. Press, Lubbock, Tex.,* 1968. iii + 315 *pp.* (Editors) 40 #1402

Generalized networks

* Proceedings of the Symposium on Generalized Networks (New York, N. Y., April 12, 13, 14, 1966). Edited by Jerome Fox. Microwave Research Institute Symposia Series, Vol. XVI. *Polytechnic Press of the Polytechnic Institute of Brooklyn, Brooklyn, N. Y.,* 1966. xxxiii + 789 *pp.* (Editors) 43 #5994

Geometry

* Геометрия 1963. (Russian) [Geometry 1963] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 214 *pp.* (Editors) 32 #6275

* Алгебра. Топология. Геометрия. 1965. [Algebra. Topology. Geometry. 1965] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. 468 *pp. (errata insert)* (Editors) 35 #6499

* III межвузовская научная конференция по проблемам геометрии (14-19 сентября 1967 г., г. Казань). Тезисы докладов. (Russian) [Third Interuniversity Scientific Conference on Problems in Geometry (Kazan, September 14-19, 1967). Abstracts of reports] *Izdat. Kazan. Univ., Kazan,* 1967. 204 *pp.* (Editors) 37 #806

* Алгебра. Топология. Геометрия. 1966. (Russian) [Algebra. Topology. Geometry. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. 268 *pp.* (Editors) 38 #1970

* American Mathematical Society, Translations. Series 2, Vol. 85: Twelve papers on functional analysis and geometry. *American Mathematical Society, Providence, R. I.,* 1969. iv + 258 *pp.* (Editors) 40 #5371

* Алгебра. Топология. Геометрия. 1967. (Russian) [Algebra. Topology. Geometry. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naucn. Tehn. Informacii, Moscow,* 1969. 228 *pp.* (Editors) 41 #1460

* Тезисы докладов 4-ой всесоюзной мешвузовской конференции по геометрии (Тбилиси, 1969 г.). (Russian) [Abstracts of papers of the Fourth All-Union Interuniversity Conference on Geometry (Tbilisi, 1969)] *Izdat. Tbilis. Univ., Tbilisi,* 1969. 295 *pp.* (Editors) 43 #1054

* Алгебра. Топология. Геометрия. 1968. (Russian) [Algebra. Topology. Geometry. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 224 *pp. (errata insert)* (Editors) 41 #3201

* Алгебра. Топология. Геометрия. 1969. (Russian) [Algebra. Topology. Geometry. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1971. 168 *pp. (errata insert)* (Editors) 43 #1783

Geometry and graph theory

* Matematika (geometrie a teorie grafů). (Czech) [Mathematics (geometry and graph theory)] Sborník pedagogické Fakulty University Karlovy. *Universita Karlova, Prague,* 1970. 136 *pp.* (Editors) 43 #3063

Gwometry of homogeneous bounded domains

* Geometry of homogeneous bounded domains. Centro Internaziona Matematico Estivo. III ciclo, Urbino, 3-13 luglio 1967. Diretto dal Edoardo Vesentini. *Edizioni Cremonese, Rome,* 1968. i + 307 *p*

(Editors) 38 #2338

Geometry in the large

* Третий всесоюзный симпозиум по геометрии в целом. (Russian) [Third All-Union Symposium on Geometry in the Large] *Karel. Gosudarstv. Ped. Inst., Petrozavodsk,* 1969. 79 *pp.* (Editors) 43 #3058

Geophysics

* Геофизика. (1963) (Russian) [Geophysics (1963)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 376 *pp.* (Editors) 32 #3840

Gerberti postea Silverstri II papae Opera Mathematica (972-1003)

* Gerberti postea Silvestri II papae Opera Mathematica (972-1003). Accedunt aliorum opera ad Gerberti libellos aestimandos intelligendosque necessaria per septem appendices distributa. Edited by Nicolaus Bubnov. *Georg Olms Verlagsbuchhandlung, Hildesheim,* 1963. cxix + 620 *pp. (4 plates)* (J. E. Hofmann) 29 #3335

Zur Geschichte der griechischen Mathematik
* Zur Geschichte der griechischen Mathematik. Herausgegeben von Oskar Becker. Wege der Forschung, Band XXXIII. *Wissenschaftliche Buchgesellschaft, Darmstadt,* 1965. xxi + 461 pp. (F. Krafft) 34 #5610

Geschichte der Mathematik im Mittelalter und der Renaissance
* Urkunden zur Geschichte der Mathematik im Mittelalter und der Renaissance. Teile I, II. Herausgegeben von Maximilian Curtze. First reprinting. Bibliotheca Mathematica Teubneriana, Band 45. *Johnson Reprint Corp., New York-London,* 1968. *Part I:* x + *pp.* 1-336; *Part II:* ii + *pp.* 337-627. (Editors) 40 #1238

Global analysis
* Studies in global geometry and analysis. Edited by S. S. Chern. MAA Studies in Mathematics, Vol. 4. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1967. v + 197 *pp.* (Editors) 35 #1429
* Global analysis. Papers in honor of K. Kodaira. Edited by D. C. Spencer and S. Iyanaga. *University of Tokyo Press, Tokyo; Princeton University Press, Princeton, N. J.,* 1969. v + 414 *pp. (1 plate)* (Editors) 40 #6559
* Global analysis. Proceedings of Symposia in Pure Mathematics, Vols. XIV-XVI. Edited by Shiing-shen Chern and Stephen Smale. *American Mathematical Society, Providence, R. I.,* 1970. *Vol. XIV:* v + 367 *pp.; Vol. XV:* v + 307 *pp.; Vol. XVI:* v + 250 *pp.* (Editors) 41 #7686

Global geometry
* Studies in global geometry and analysis. Edited by S. S. Chern. MAA Studies in Mathematics, Vol. 4. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1967. v + 197 *pp.* (Editors) 35 #1429

Grands courants de la pensée mathématique
* Les grands courants de la pensée mathématique. Nouvelle édition augmentée. Présentés par F. Le Lionnais. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1962. 559 *pp.* (Editors) 31 #2109

Graph theory
(See Zykov, A. A., 41 #3317)
* A seminar on graph theory. Edited by Frank Harary and Lowell Beineke. *Holt, Rinehart and Winston, New York-Toronto, Ont.-London,* 1967. vii + 116 *pp.* (Editors) 35 #5348
(See also Lang, Rainer, 39 #2644)
* Beiträge zur Graphentheorie. Vorgetragen auf dem internationalen Kolloquium in Manebach (DDR) vom 9.-12. Mai 1967. Herausgegeben von Horst Sachs, Heinz-Jürgen Voss und Hansjoachim Walther. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1968. 394 *pp.* (Editors) 39 #2645
* The many facets of graph theory. Proceedings of the Conference held at Western Michigan University, Kalamazoo, Mich., October 31-November 2, 1968. Edited by G. Chartrand and S. F. Kapoor. Lecture Notes in Mathematics, No. 110. *Springer-Verlag, Berlin-New York,* 1969. viii + 290 *pp.* (Editors) 40 #4161
* Proof techniques in graph theory. Proceedings of the Second Ann Arbor Graph Theory Conference, February 1968. Edited by Frank Harary. *Academic Press, New York-London,* 1969. xv + 330 *pp.* (Editors) 40 #4162
(See Turner, James, 41 #3318; Deo, Narsingh, 41 #3319; and Turner, James; Kautz, William H., 42 #2973)
* Proceedings of the Louisiana Conference on Combinatorics, Graph Theory and Computing (Louisiana State University, Baton Rouge, March 1-5, 1970). Edited by R. C. Mullin, K. B. Reid and D. P. Roselle. *Louisiana State University, Baton Rouge, La.,* 1970. vi + 464 *pp.* (Editors) 42 #1665
* Recent trends in graph theory. Proceedings of the First New York City Graph Theory Conference held on June 11, 12, and 13, 1970. Sponsored by St. John's University, Jamaica, New York. Edited by M. Capobianco, J. B. Frechen and M. Krolik. Lecture Notes in Mathematics, Vol. 186. *Springer-Verlag, Berlin-New York,* 1971. vi + 219 *pp.* (Editors) 43 #3155

raph theory and its applications
* Graph theory and its applications. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., October 13-15, 1969. Edited by Bernard Harris. Publication No. 24 of the Mathematics Research Center, United States Army, the University of Wisconsin. *Academic Press, New York-London,* 1970. viii + 262 *pp. (loose errata)* (Editors) 41 #8283

raph theory and theoretical physics
* Graph theory and theoretical physics. Edited by Frank Harary. *Academic Press, London-New York,* 1967. xv + 358 *pp.* (Editors) 37 #6208

ravitation and theory of relativity
* Гравитация и теория относительности. Вып. 2. (Russian) [Gravitation and theory of relativity. No. 2] Edited by A. Z. Petrov. *Izdat. Kazan. Univ., Kazan,* 1965. 130 *pp.* (Editors) 35 #2598
* Гравитация и теория относительности. Вып. 4-5. (Russian) [Gravitation and the theory of relativity. No. 4-5] *Izdat. Kazan. Univ., Kazan,* 1968. 246 *pp.* (Editors) 43 #8338

Group representations
* Theory of group representations and Fourier analysis. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Montecatini T., 25 giugno-4 luglio 1970. Coordinatore: F. Gherardelli. *Edizioni Cremonese, Rome,* 1971. ii + 330 *pp.* (Editors) 43 #7543

Group representations in mathematics and physics
* Group representations in mathematics and physics. Battelle Seattle 1969 Rencontres. Edited by V. Bargmann. Lecture Notes in Physics, Vol. 6. *Springer-Verlag, Berlin-New York,* 1970. v + 340 *pp.* (Editors) 42 #6155

Group theory and its applications
* Group theory and its applications. Edited by Ernest M. Loebl. *Academic Press, New York-London,* 1968. xxvi + 696 *pp.* (P. Roman) 39 #3763

Group theory and solid state physics
* Group theory and solid state physics. A selection of papers. Vol. I. Edited by Paul H. Meijer. *Gordon and Breach Science Publishers, New York-London,* 1964. x + 293 *pp.* (G. F. Koster) 33 #1098

Groupe d'études Destiné à l'Avancement des Méthodes Statistiques au Traitement du Signal
Tests non paramétriques. *Rev. CETHEDEC Cahier No.* 5 (1968), 3-124. (C. B. Bell) 40 #987

Groupes de type multiplicatif, et structure des schémas en groupes généraux
* Schémas en groupes. II: Groupes de type multiplicatif, et structure des schémas en groupes généraux. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 152. *Springer-Verlag, Berlin-New York,* 1970. ix + 654 *pp.* (Editors) 43 #223b

Groups with restricted subgroups
* Группы с ограничениями для подгрупп. (Russian) [Groups with restricted subgroups] Academy of Science of the Ukrainian SSR. Institute of Mathematics. *"Naukova Dumka", Kiev,* 1971. 228 *pp.* (Editors) 42 #7755

Grundzüge der Mathematik
* Grundzüge der Mathematik. Band V: Praktische Methoden und Anwendungen der Mathematik (Rechenanlagen, Algebra und Analysis). Herausgegeben von H. Behnke, G. Bertram, L. Collatz, R. Sauer und H. Unger. *Vandenhoeck & Ruprecht, Göttingen,* 1968. xi + 478 *pp.* (Editors) 38 #957
* Grundzüge der Mathematik. Band II: Geometrie. Teil B: Geometrie in analytischer Behandlung mit einer Einführung in die Darstellende Geometrie und Topologie und zahlreichen Abbildungen. Herausgegeben von H. Behnke, F. Bachmann, K. Fladt und H. Kunle. Zweite, neubearbeitete und erweiterte Auflage. *Vandenhoeck & Ruprecht, Göttingen,* 1971. xi + 478 *pp.* (From the foreword) 43 #5383

Guidance, measurement and control systems
* Информационные методы в системах управления, измерений и контроля (Доклады семинара, Владивосток, 1968 г.) (Russian) [Informational methods in guidance, measurement and control systems] *Dal'nevostočnyĭ Filial Sibirsk. Otdel. Akad. Nauk SSSR, Vladivostok,* 1968. 644 *pp.* (Editors) 39 #3902

Handbook of mathematical functions
* Handbook of mathematical functions with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. National Bureau of Standards Applied Mathematics Series, Vol. 55. *National Bureau of Standards, Washington D. C., 1964 (for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 20402). xiv + 1046 *pp.* (D. H. Lehmer) 29 #4914
* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. Third printing, with corrections. National Bureau of Standards Applied Mathematics Series, Vol. 55. *Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 1965. xiv + 1046 *pp.* (Editors) 31 #1400
* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. *Dover Publications, Inc., New York,* 1966. xiv + 1046 *pp.* (Editors) 34 #8606
* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. Fifth printing, with corrections. National Bureau of Standards Applied Mathematics Series, Vol. 55. *National Bureau of Standards, Washington, D. C., 1966 (for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 20402). xiv + 1046 *pp.* (Editors) 34 #8607
(See also Hanson, Ira C.; Wood, Van E.; Glasser, M. L.; Fettis, Henry E., 37 #2399; Hanson, Ira C., 37 #2400; and Fettis, Henry E., 41 #2874)

Handbook of mathematical psychology

* Handbook of mathematical psychology. Vol. III, Chapters 15-21. Edited by R. Duncan Luce, Robert R. Bush and Eugene Galanter. *John Wiley and Sons, Inc., New York-London-Sydney,* 1965. ix + 537 *pp.* (H. P. Edmundson) 33 #7144

Handbook of mathematical tables

* Handbook of mathematical tables. First edition. Supplement to "Handbook of Chemistry and Physics". *Chemical Rubber Publishing Co., Cleveland, Ohio,* 1962. x + 579 *pp.* (John Todd) 29 #278

Handbook of mathematics

* Handboek der wiskunde. 1. (Dutch) [Handbook of mathematics. 1] Edited by L. Knipers and R. Timman. Second edition. *Scheltema & Holkema N. V., Amsterdam,* 1966. xx + 854 *pp.* (Editors) 41 #3210

* Handbook of mathematics. Edited by L. Kuipers and R. Timman. Translated from the Dutch. English translation edited by I. N. Sneddon. International Series of Monographs in Pure and Applied Mathematics, Vol. 99. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1969. xi + 782 *pp.* (Editors) 40 #1223

Handbook of statistical tables

(See Owen, D. B., 34 #8530)

Handbuch der Mathematik

* Handbuch der Mathematik. Unter Mitarbeit von zahlreichen Fachgelehrten herausgegeben von L. Kuipers und R. Timman. Übersetzung aus dem Holländischen von Anneliese Oberschelp. *Walter de Gruyter & Co., Berlin,* 1968. xix + 830 *pp.* (Editors) 36 #3617

Handbuch der Physik

* Handbuch der Physik. Band XXV/1. Kristalloptik-Beugung. Herausgegeben von S. Flügge. *Springer-Verlag, Berlin-Göttingen-Heidelberg,* 1961. vii + 592 *pp.* (Editors) 31 #1875

* Handbuch der Physik. Band XXVII: Spektroskopie. I. Herausgegeben von S. Flügge. *Springer-Verlag, Berlin-Göttingen-Heidelberg,* 1964. vi + 507 *pp.* (A. C. T. Wu) 31 #1057

* Handbuch der Physik. Band III/3: Die nicht-linearen Feldtheorien der Mechanik. Herausgegeben von S. Flügge. *Springer-Verlag, Berlin-New York,* 1965. viii + 602 *pp.* (Editors) 33 #2029

Hercen Lectures

* XIX Герценовские чтения: Математика (19 апреля-11 мая 1966 г.) (Russian) [Hercen Lectures. XIX: Mathematics (April 19-May 11, 1966)] *Leningrad. Gosudarstv. Ped. Inst., Leningrad,* 1966. 46 *pp.* (Editors) 35 #4064

* XXII Герценовские чтения: Математика (апрель-май 1969 года). (Russian) [Hercen Lectures. XXII: Mathematics (April-May, 1969)] Interuniversity Conference. Program and abstracts of papers. *Leningrad. Gosudarstv. Ped. Inst., Leningrad,* 1969. 118 *pp.* (Editors) 40 #5375

High energy and particle physics

* Lectures in theoretical physics. Vol. IXB: High energy and particle physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin and Asim O. Barut. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xi + 436 *pp.* (Editors) 38 #5433b

High energy physics

* High energy physics. 1965 Tokyo Summer Lectures in Theoretical Physics, Part 2. Edited by Gyo Takeda. *Syokabō, Tokyo; Benjamin, New York,* 1966. v + 121 *pp.* (Editors) 33 #5313

* Lectures in theoretical physics. Vol. VIII B: Fundamental particles and high energy physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. viii + 428 *pp.* (Editors) 34 #5403

* Lectures in theoretical physics. Vol. XB: High energy physics and fundamental particles. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. xiii + 708 *pp.* (Editors) 38 #4099b

High-energy physics and elementary particles

* High-energy physics and elementary particles. Lectures presented at the seminar on high-energy physics and elementary particles, organized by and held at the International Centre for Theoretical Physics, Trieste, May 3 to June 30, 1965. *International Atomic Energy Agency, Vienna,* 1965. xvii + 1006 *pp.* (Editors) 33 #8183

High energy physics and theory of elementary particles

* Физика высоких энергий и теория элементарных частиц. (Russian) [High energy physics and theory of elementary particles] International School on Theoretical Physics held at Yalta, April-May, 1966. Academy of Sciences of the Ukrainian SSR. Joint Institute for Nuclear Research. *"Naukova Dumka", Kiev,* 1967. 815 *pp.* (Editors) 36 #4872

High Speed Aerodynamics and Jet Propulsion

* Theory of laminar flows. Edited by F. K. Moore. High Speed Aerodynamics and Jet Propulsion, Vol. IV. *Princeton University Press, Princeton, N. J.,* 1964. xv + 869 *pp.* (Editors) 30 #3637

Hilbert's problems

* Проблемы Гильберта. (Russian) [Hilbert's problems] *Izdat. "Nauka", Moscow,* 1969. 239 *pp. (1 plate)*, (Editors) 40 #4036

History

* Из истории науки и техники в странах Востока. Вып. 1. (Russian) [From the history of science and technology in the East. No. 1] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit., Moscow,* 1960. 474 *pp. (4 foldouts; errata insert)* (Editors) 40 #4

* Из истории науки и техники в странах Востока. Вып. 2. (Russian) [From the history of science and technology in the East. No. 2] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit., Moscow,* 1961. 195 *pp. (errata insert)* (Editors) 40 #5

* Из истории науки и техники в странах Востока. Вып. 3. (Russian) [From the history of science and technology in the East. No. 3] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit., Moscow,* 1963. 267 *pp. (errata insert)* (Editors) 40 #6

* Urkunden zur Geschichte der Mathematik im Mittelalter und der Renaissance. Teile I, II. Herausgegeben von Maximilian Curtze First reprinting. Bibliotheca Mathematica Teubneriana, Band 45. *Johnson Reprint Corp., New York-London,* 1968. *Part I:* x + *pp.* 1-336; *Part II:* ii + *pp.* 337-627. (Editors) 40 #1238

History of mathematics

* История отечественной математики в четырех томах. Том I. С древнейших времен до конца XVIII в. (Russian) [History of national mathematics in four volumes. Vol. I. From oldest times to the end of the 18th century] Academy of Sciences of the USSR and the Academy of Sciences of the Ukrainian SSR. Volume I edited by I. Z. Štokalo, A. N. Bogoljubov, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, E. Ja. Remez, K. A. Rybnikov, Ju. D. Sokolov and V. S. Sologub. *Naukova Dumka, Kiev,* 1966. 492 *pp.* (I. N. Veselovskiĭ) 35 #4068

* История отечественной математики в четырех томах. Том II. 1801-1917. (Russian) [History of national mathematics in four volumes. Vol. II. 1801-1917] Academy of Sciences of the USSR and Academy of Sciences of the Ukrainian SSR. Volume II edited by I. Z. Štokalo, A. N. Bogoljubov, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, E. Ja. Remez, K. A. Rybnikov, Ju. D. Sokolov and V. S. Sologub. *Naukova Dumka, Kiev,* 1967. 616 *pp.* (I. N. Veselovskiĭ) 37 #3888

* История отечественной математики в четырех томах. Том 3: 1917-1967. (Russian) [History of national mathematics in four volumes. Vol. 3: 1917-1967] Academy of Sciences of the USSR and the Academy of Sciences of the Ukrainian SSR. Volume 3 edited by I. Z. Štokalo, A. N. Bogoljubov, A. O. Gel′fond, V. M. Gluškov, B. V. Gnedenko, N. P. Erugin, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, N. I. Mushelišvili, O. S. Parasjuk, E. Ja. Remez, V. I. Smirnov, Ju. D. Sokolov, A. B. Paplauskas and V. S. Sologub. *Naukova Dumka, Kiev,* 1968. 726 *pp.* (I. N. Veselovskiĭ) 38 #5566

History of mathematics of the Sung and Yüan period

* Sung Yüan shu hsüeh shih lun wen chi. (Chinese) [Discourses on the history of mathematics of the Sung and Yüan period] *Science Press, Peking,* 1966. iii + 303 *pp.* (Table of contents) 34 #2403

History and methodology of natural sciences

* История и методология естественных наук. Вып. V. Математика. (Russian) [History and methodology of natural sciences. No. V. Mathematics] Proceedings of the Second Interuniversity Conference on the History of Natural Sciences held at Moscow University May 27-June 1, 1963. *Izdat. Moskov. Univ., Moscow,* 1966. 275 *pp.* (Editors) 33 #3865

* История и методология естественных наук. Вып. IX: Механика, математика. (Russian) [History and methodology of natural sciences No. IX: Mechanics, mathematics] *Izdat. Moskov. Univ., Moscow,* 1970. 267 *pp.* (Editors) 42 #2912

History of national mathematics in four volumes

* История отечественной математики в четырех томах. Том I. С древнейших времен до конца XVIII в. (Russian) [History of national mathematics in four volumes. Vol. I. From oldest times to the end of the 18th century] Academy of Sciences of the USSR and the Academy of Sciences of the Ukrainian SSR. Volume I edited by I. Z. Štokalo, A. N. Bogoljubov, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, E. Ja. Remez, K. A. Rybnikov, Ju. D. Sokolov and V. S. Sologub. *Naukova Dumka, Kiev,* 1966. 492 *pp.* (I. N. Veselovskiĭ) 35 #4068

* История отечественной математики в четырех томах. Том II. 1801-1917. (Russian) [History of national mathematics in four volumes. Vol. II. 1801-1917] Academy of Sciences of the USSR and Academy of Sciences of the Ukrainian SSR. Volume II edited by I. Z. Štokalo, A. N. Bogoljubov, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, E. Ja. Remez, K. A. Rybnikov, Ju. D. Sokolov and V. S. Sologub. *Naukova Dumka, Kiev,* 1967. 616 *pp.* (I. N. Veselovskiĭ) 37 #3888

* История отечественной математики в цетырех томах. Том 3: 1917-1967. (Russian) [History of national mathematics in four volumes. Vol. 3: 1917-1967] Academy of Sciences of the USSR and the Academy of Sciences of the Ukrainian SSR. Volume 3 edited by I. Z. Štokalo, A. N. Bogoljubov, A. P. Juškevič, N. N. Bogoljubov, A. O. Gel′fond, V. M. Gluškov, B. V. Gnedenko, N. P. Erugin, Ju. A. Mitropol′skiĭ, I. B. Pogrebysskiĭ, N. I. Mushelišvili, O. S. Parasjuk, E. Ja. Remez, V. I. Smirnov, Ju. D. Sokolov, A. B. Paplauskas and V. S. Sologub. *Naukova Dumka, Kiev,* 1968. 726 *pp.* (I. N. Veselovskiĭ) 38 #5566

istory of science

* Actes du Onzième Congrès International d'Histoire des Sciences (Varsovie-Toruń-Kielce-Cracovie, 24-31 août, 1965). Section III: Histoire des sciences exactes (astronomie, mathématiques, physique). *Ossolineum [Maison d'Éditon de l'Académie Polonaise des Sciences], Wrocław,* 1968. 448 *pp.* (Editors) 41 #6

* Тезисы докладов третьей закавказской конференции историков наук, посвященной 100-летию со дня рождения В. И. Ленина (20-23 ноября 1969 г.). (Russian) [Abstracts of papers at the Third Transcaucasian Conference of Historians of Science, dedicated to the 100th Birthday Anniversary of V. I. Lenin (November 20-23, 1969)] *Akad. Nauk. Gruzin. SSR, Tbilisi,* 1969. 315 *pp. (errata insert)* (Editors) 41 #5

* Материалы VIII конференции по истории науки в Прибалтике. (Russian) [Abstracts of the Eighth Conference on the History of Science in the Baltic States] Academy of Sciences of the Estonian SSR. Estonian Branch of the Soviet National Union for History and Philosophy of Natural Sciences and Technology. *Akad. Nauk Ėston. SSR, Tartu,* 1970. 181 *pp.* (Editors) 41 #8189

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome IA: Colloques: Colloques: Textes des rapports. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 431 *pp.* (Editors) 42 #5757a

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome II: Problèmes Généraux d'Histoire des Sciences, Épistémologie. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1970. 119 *pp.* (Editors) 42 #5757b

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III A: Science et Philosophie: Antiquité, Moyen Âge, Renaissance. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 151 *pp.* (Editors) 42 #5757c

* Actes du XII^{e} Congres International d'Histoire des Sciences (Paris, 25-30 août 1968). Tome III B: Science et Philosophie: XVII^{e} et XVIII^{e} siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 181 *pp.* (Editors) 42 #5757d

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août, 1968). Tome IV: Histoire des mathématiques et de la mécanique. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 184 *pp.* (Editors) 43 #3068a

* Actes du XII^{e} Congrès International d'Histoire des Sciences (Paris, 25-30 août, 1968). Tome V: Histoire de la physique — y compris l'astronomie — XIX^{e} et XX^{e} siècles. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1971. 126 *pp.* (Editors) 43 #3068b

story of science and technology in the East

* Из истории науки и техники в странах Востока. Вып. 1. (Russian) [From the history of science and technology in the East. No. 1] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit. Moscow,* 1960. 474 *pp. (4 foldouts; errata insert)* (Editors) 40 #4

* Из истории науки и техники в странах Востока. Вып. 2. (Russian) [From the history of science and technology in the East. No. 2] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit., Moscow,* 1961. 195 *pp. (errata insert)* (Editors) 40 #5

* Из истории науки и техники в странах Востока. Вып. 3. (Russian) [From the history of sciences and technology in the East. No. 3] Academy of Sciences of the USSR. Institute of the History of Natural Sciences and Technology. *Izdat. Vostočn. Lit., Moscow,* 1963. 267 *pp. (errata insert)* (Editors) 40 #6

lomorphic mappings and minimal surfaces

* Proceedings of the Carolina Conference on Holomorphic Mappings and Minimal Surfaces (Chapel Hill, N. C., March 30-April 3, 1970). Edited by Donald A. Eisenman and Laird E. Taylor. *Department of Mathematics, University of North Carolina, Chapel Hill, N. C.,* 1970. iv + 107 *pp.* (Editors) 42 #6276

mmage au Professeur Lucien Godeaux

* Hommage au Professeur Lucien Godeaux. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain,* 1968. 215 *pp.* (Editors) 38 #4248

Homology theory

* Category theory, homology theory and their applications. I. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. One. Edited by P. Hilton. Lecture Notes in Mathematics, No. 86. *Springer-Verlag, Berlin-New York,* 1969. vi + 216 *pp.* (Editors) 39 #2831

* Category theory, homology theory and their applications. II. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. Two. Edited by P. Hilton. Lecture Notes in Mathematics, No. 92. *Springer-Verlag, Berlin-New York,* 1969. v + 308 *pp.* (Editors) 39 #2832

* Category theory, homology theory and their applications. III. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. Three. Edtied by P. Hilton. Lecture Notes in Mathematics, No. 99. *Springer-Verlag, Berlin-New York,* 1969. iv + 489 *pp.* (Editors) 39 #2833

H-spaces

* H-spaces. Actes de la réunion de Neuchâtel (Suisse), août, 1970. Publiés par Francois Sigrist. Textes rédigés en anglais. Lecture Notes in Mathematics, Vol. 196. *Springer-Verlag, Berlin-New York,* 1971. iv + 156 *pp.* (Editors) 44 #4748

Hung-ching Chow sixty-fifth anniversary volume

* Hung-ching Chow sixty-fifth anniversary volume. *Mathematics Research Center of National Taiwan University, Taipei (Taiwan),* 1967. vii + 204 *pp. (1 plate)* (Editors) 37 #7

Hydrodynamics

* Methods in computational physics. Advances in research and applications. Vol. 3: Fundamental methods in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1964. xii + 386 *pp.* (Editors) 34 #8706

* Methods in computational physics. Advances in research and applications. Vol. 4: Applications in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1965. xi + 385 *pp.* (Editors) 34 #8707

Index to translations selected by the American Mathematical Society

* Index to translations selected by the American Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1966. iii + 90 *pp.* (Editors) 33 #1186

Inequalities

* Inequalities. Proceedings of a Symposium held at Wright-Patterson Air Force Base, Ohio, August 19-27, 1965. Edited by Oved Shisha. *Academic Press, New York-London,* 1967. xiv + 360 *pp.* (Editors) 36 #1251

* Inequalities. II. Proceedings of the Second Symposium on Inequalities Held at the United States Air Force Academy, Colorado, August 14-22, 1967. Edited by Oved Shisha. *Academic Press, New York-London,* 1970. xvi + 439 *pp.* (Editors) 41 #8188

Inertial guidance

* Inertial guidance. University of California Engineering and Physical Sciences Extension Series. Edited by George R. Pitman, Jr. *John Wiley & Sons, Inc., New York-London,* 1962. xiii + 481 *pp.* (H. Saunders) 29 #4595

Information and inference

* Information and inference. Edited by Jaakko Hintikka and Patrick Suppes. *D. Reidel Publishing Co., Dordrecht; Humanitites Press, New York,* 1970. ix + 336 *pp.* (Editors) 42 #7456

Information and prediction in science

* Information and prediction in science. Edited by S. Dockx and P. Bernays. *Academic Press, New York-London,* 1965. xi + 272 *pp.* (Editors) 31 #6688

Information processing

* Information processing 68. Proceedings of IFIP Congress 1968. Vol. 1: Mathematics, software. Organized by the International Federation for Information Processing, Edinburgh, 5-10 August 1968. Edited by A. J. H. Morrell. *North-Holland Publishing Co., Amsterdam,* 1969. Vol. 1: xxvi + *pp.* 1-610. (Editors) 40 #7056a

* Information processing 68. Proceedings of IFIP Congress 1968. Vol. 2: Hardware, applications. Organized by the International Federation for Information Processing, Edinburgh, 5-10 August 1968. Edited by A. J. H. Morrell. *North-Holland Publishing Co.,* Amsterdam, 1969. Vol. 2: xi + *pp.* 611-1650. (Editors) 40 #7056b

Information processing machines

* Information processing machines. 14. Research Institute of Mathematical Machines, Prague. Czechoslovak Academy of Sciences. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1968. 305 *pp.* (Editors) 40 #4030

Infromation systems

* Advances in information systems science. Vol. I. Edited by Julius T. Tou. *Plenum Press, New York,* 1969. xv + 303 *pp.* (Editors) 39 #2501

Information theory

* Transactions of the Fourth Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Held at Prague, August 31-September 11, 1965. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 725 *pp.* (Editors) 35 #4066

* Proceedings of the colloquium on information theory. Vols. I, II. Edited by A. Rényi. *János Bolyai Mathematical Society, Budapest,* 1968. *Vol. I:* ii + *pp.* 1-282; *Vol. II:* ii + *pp.* 283-520. (From the editor's preface) 39 #8001

* Selected translations in mathematical statistics and probability, Vol. 8. Eleven Lectures delivered at the Fourth Prague Conference on Information Theory, Statistical Decision Functions and Random Processes held at Prague from 31st August to 11th September 1965. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1970. iv + 221 *pp.* (Editors) 41 #1461

Informational methods in guidance, measurement and control systems

* Информационные методы в системах управления, измерений и контроля (Доклады семинара, Владивосток, 1968 г.) (Russian) [Informational methods in guidance, measurement and control systems] *Dal'nevostočnyĭ Filial Sibirsk. Otdel. Akad. Nauk SSSR, Vladivostok,* 1968. 644 *pp.* (Editors) 39 #3902

In honor of Prof. Dr. Iñíguez y Almech on the occasion of his seventieth birthday and academic retirement

* Homenaje al Prof. Dr. Iñíguez y Almech en ocasión de su 70 cumpleaños y jubileo académico. (Spanish] [In honor of Prof. Dr. Iñíguez y Almech on the occasion of his seventieth birthday and academic retirement] Publicaciones del Seminario Mathemático García de Galdeano, 10. *Consejo Superior de Investigaciónes Cientificas. Facultad de Ciencias de Zaragoza, Zaragoza,* 1969. 230 *pp. (1 plate)* (Editors) 40 #1224

In memoriam: N. G. Čebotarev

* Памяти Н. Г. Чеботарева (1894-1947). (Russian) [In memoriam: N. G. Čebotarev (1894-1947)] A collection of articles. *Izdat. Kazan. Univ., Kazan,* 1964. 132 *pp.* (Editors) 33 #1190

Initiation à l'analyse

* Séminaire Choquet. 7^e année: 1967/68. Initiation à l'analyse. Fasc. 1: Opérateurs intégraux singuliers. *Secrétariat mathématique, Paris,* 1969. iii + 98 *pp. (not consecutively paged)* (Editors) 43 #6032a

* Séminaire Choquet. 7^e année: 1967/68. Initiation à l'analyse. Fasc. 2: Analyse fonctionnelle générale. *Secrétariat mathématique, Paris,* 1969. iii + 95 + iii *pp. (not consecutively paged)* (Editors) 43 #6032b

* Séminaire Choquet. 8^e année: 1968/69. Initiation à l'analyse. *Secrétariat mathématique, Paris,* 1969. iii + 171 + iii *pp. (not consecutively paged)* (Table of contents) 43 #4596

* Séminaire Choquet. 9^e année: 1969/70. Initiation à l'analyse. Fasc. 1: Exposés 1 à 8. *Secrétariat mathématique, Paris,* 1970. iii + 176 *pp. (not consecutively paged)* (Table of contents) 43 #4597a

* Séminaire Choquet. 9^e année: 1969/70. Initiation à l'analyse. Fasc. 2: Exposés 9 à 23. *Secrétariat mathématique, Paris,* 1970. iii + 148 + iii *pp. (not consecutively paged)* (Table of contents) 43 #4597b

The Institute of Mathematics of the Academy of the Socialist Republic of Romania

* Institutul de Matematică al Academiei Republicii Socialiste România (Bucureşti şi Iaşi). 20 de ani de activitate (1949-1969). (Romanian) [The Institute of Mathematics of the Academy of the Socialist Republic of Romania (Bucharest and Iaşi). 20 years of activity (1949-1969)] *Editura Academiei Republicii Socialiste România, Bucharest,* 1970. 357 *pp.* (H. W. Guggenheimer) 43 #1805

Institutio Logica

* Galen's Institutio Logica. English translation, introduction, and commentary by John Spangler Kieffer. *The Johns Hopkins Press, Baltimore, Md.,* 1964. vii + 143 *pp.* (F. Krafft) 31 #2110

Integral equations

* Problems in mathematical analysis. Vol. 1. Boundary value problems and integral equations. Edited by V. I. Smirnov. Translated from the Russian. *Consultants Bureau, New York,* 1968. ii + 150 *pp.* (Editors) 38 #4793

Integration of certain differential equations of mathematical physics

* Интегрирование некоторых дифференциальных уравнений математической физики. (Russian) [Integration of certain differential equations of mathematical physics] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. 256 *pp.* (Editors) 33 #2924

Integro-differential equations

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 1. (Russian) [Studies in integro-differential equations in Kirghizia. No. 1] Academy of Sciences of the Kirghiz SSR, Institute of Physics and Mathematics. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1961. 284 *pp.* (Editors) 37 #1939

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 2. (Russian) [Studies in integro-differential equations in Kirghizia. No. 2] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. 352 *pp. (errata insert)* (Editors) 37 #5638

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 3. (Russian) [Studies in integro-differential equations in Kirghizia. No. 3] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim Frunze,* 1965. 339 *pp. (errata insert)* (Editors) 37 #4527

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 4. (Russian) [Studies in integro-differential equations in Kirghizia. No. 4] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim Frunze,* 1967. 202 *pp.* (Editors) 36 #6890

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 5. (Russian) [Studies in integro-differential equations in Kirghizia. No. 5] Academy of Sciences of the Kirgh SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1968. 214 *pp. (errata insert)* (Editors) 40 #6216

* Исследования по интегро-дифференциальным уравнениям в Кригизии. Вып. 6. (Russian) [Studies in integro-differential equations in Kirghizia. No. 6] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1969. 319 *pp.* (Editors) 43 #5272

International Colloquium on Algebraic Geometry

* Algebraic geometry. Papers presented at the Bombay Colloqu 1968. Tata Institute of Fundamental Research Studies in Mathematics, No. 4. *Published for the Tata Institute of Fundamental Research, Bombay; Oxford University Press, London,* 1969. viii + 426 *pp.* (Editors) 40 #5611

International Colloquium on Differential Geometry

* Actas del Segundo Colóquio Internacional sobre Geometría Diferencial (Santiago, 25-28 Octubre 1967). (Spanish) [Proceedin of the Second International Colloquium on Differential Geometry (Santiago, 25-28 October, 1967)] Congresos y Coloquios de la Universidad de Santiago de Compostela. *University of Santiago d Compostela, Department of Geometry and Topology of the Faculty of Sciences, Santiago de Compostela; International Mathematical Union,* 1968. iv + 64 *pp. (1 plate)* (Editors) 40 #6382

International Conference on Analytic Functions

* Современные проблемы теории аналитических функций. (Russian [Contemporary problems in the theory of analytic functions] International Conference on the Theory of Analytic Functions, Erevan, 1965. Edited by M. A. Lavrent'ev. *Izdat. "Nauka", Moscow,* 1966. 362 *pp.* (Editors) 34 #2833

International Conference on Combinatorial Mathematics

* International conference on combinatorial mathematics. Hel by The New York Academy of Sciences on April 1-4, 1970. Edited by Allan Gewirtz and Louis V. Quintas. *Ann. New York Acad. Sci.* 175 (1970), *Art.* 1, 1-412. (Editors) 41 #8248

Internat. Conf. Combinatorial Structures

* Combinatorial structures and their applications. Proceedings of the Calgary International Conference on Combinatoria Structures and their Applications held at the University of Calgary, Calgary, Alberta, Canada, June, 1969. Edited by Richard Guy, Haim Hanani, Norbert Sauer and Johanan Schönheim. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1970. xvi + 508 *pp.* (Editors) 41 #8247

International Conference on Computing Methods in Optimization Problem

* Computing methods in optimization problems. Papers presented at the 2nd International Conference on Computing Methods in Optimization Problems, San Remo, Italy, September 9-13, 1968. Lecture Notes in Operations Research and Mathematical Economics, Vol. 14. *Springer-Verlag, Berlin-New York,* 1969. (Editors) 39 #7987

International Conference on Nonlinear Vibrations

* Пятая международная конференция по нелинейным колебаниям (Киев, 25 августа-5 сентября 1969 г.). Тезисы докладов. (Russian) [Fifth International Conference on Nonlinear Vibrations (Kiev, August 25-September 5, 1969). Abstracts of papers] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 252 *pp.* (Editors) 40 #5376

International Congress of Mathematicians

* Труды международного конгресса математиков (Москва, 1966). (Russian) [Proceedings of the International Congress of Mathematicians] Edited by I. G. Petrovskiĭ. *Izdat. "Mir", Moscow,* 1968. 726 *pp.* (Editors) 38 #960

International electrotechnical dictionary
* Международный электротехнический словарь, Группа 37. Автоматические управляющие и регулирующие системы. (Russian) [International electrotechnical dictionary, Group 37. Automatic control and regulating systems] Second edition. *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1969. 112 *pp.* (Preface) 41 #3211

International School
* Functional analysis and optimization. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1966. xiii + 225 *pp.* (Editors) 35 #2648

International School of Physics
* Automata theory. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1966. xiv + 342 *pp.* (Editors) 33 #3855

International School of Physics. See Fermi International School of Physics

International School on Theoretical Physics
* Физика высоких энергий и теория элементарных частиц. (Russian) [High energy physics and theory of elementary particles] International School on Theoretical Physics held at Yalta, April-May, 1966. Academy of Sciences of the Ukrainian SSR. Joint Institute for Nuclear Research. *"Naukova Dumka", Kiev,* 1967. 815 *pp.* (Editors) 36 #4872

International Seminar on Relativity and Gravitation
* Relativity and gravitation. International Seminar on Relativity and Gravitation, held in July 1969 at the Einstein Institute of Physics, Technion City, Israel. Edited by Charles G. Kuper and Asher Peres. *Gordon and Breach Science Publishers, New York-London-Paris,* 1971. xi + 324 *pp.* (Table of contents) 43 #4412

International Summer School on Mathematical Models of Action and Reaction
* Differential games and related topics. Proceedings of the International Summer School on Mathematical Models of Action and Reaction, held in Varenna, Italy, June 15-27, 1970. Edited by H. W. Kuhn and G. P. Szegö. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Inc., New York,* 1971. x + 489 *pp.* (Editors) 42 #8939

International Summer School for Theoretical Physics
* Current algebra and phenomenological Lagrange functions. Invited papers presented at the First International Summer School for Theoretical Physics, University of Karlsruhe (July 22-August 2, 1968). Springer Tracts in Modern Physics. Ergebnisse der exakten Naturwissenschaften, Vol. 50. *Springer-Verlag, Berlin-New York,* 1969. iv + 156 *pp.* (Table of contents) 40 #2305

Internat. Sympos. Theory of Graphs
* Theory of graphs: International Symposium. Held at the International Computation Center in Rome, July, 1966. Scientific editor, P. Rosenstiehl. *Gordon & Breach, New York; Dunod, Paris,* 1967. xviii + 416 *pp.* (Editors) 36 #1350

Internationale Kolloquium
* Achtes Internationale Kolloquium (1963). Technische Hochschule Ilmenau, 14-19, Oktober 1963. *Technische Hochschule Ilmenau, Ilmenau,* 1963. 540 *pp.* (Editors) 30 #2992

Internationales Kolloquium
* Beiträge zur Graphentheorie. Vorgetragen auf dem internationalen Kolloquium in Manebach (DDR) vom 9.-12. Mai 1967. Herausgegeben von Horst Sachs, Heinz-Jürgen Voss und Hansjoachim Walther. *B. G. Teubner Verlagsgesellschaft, Leipzig,* 1968. 394 *pp.* (Editors) 39 #2645

Internationales Wissenschaftliches Kolloquium
* X. Internationales Wissenschaftliches Kolloquium. Heft 11: Mathematische Probleme der Ökonomie und Rechentechnik. Held at the Technische Hochschule Ilmenau, September 27 to October 1, 1965. *Technische Hochschule Ilmenau, Ilmenau,* 1966. 61 *pp.* (Editors) 35 #5269

Interuniversity Scientific Conference on the Problem "Application of Functional Analysis in Approximation Theory". Proceedings of the Conference
* Межвузовская научная конференция по проблеме "Применение функционального анализа в теории приближений". Материалы конференции. (Russian) [Interuniversity Scientific Conference on the Problem "Application of Functional Analysis in Approximation Theory". Proceedings of the Conference] *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1970. 204 *pp.* (Editors) 42 #3481

Interuniversity Scientific Conference on Problems in Geometry
* III межвузовская научная конференция по проблемам геометрии (14-19 сентября 1967 г., г. Казань). Тезисы докладов. (Russian) [Third Interuniversity Scientific Conference on Problems in Geometry (Kazan, September 14-19, 1967). Abstracts of reports] *Izdat. Kazan. Univ., Kazan,* 1967. 204 *pp.* (Editors) 37 #806

Interuniversity Scientific Symposium on General Algebra
* Межвузовский научный симпозиум по общей алгебре. (Russian) [Interuniversity Scientific Symposium on General Algebra] Reports, communications, summaries. *Tartu. Gos. Univ., Tartu,* 1966. 232 *pp.* (Editors) 33 #3859

Introduction to system programming
* Introduction to system programming. Proceedings of a Symposium held at the London School of Economics, July, 1962. A.P.I.C. Studies in Data Processing, No. 4. Edited by Peter Wegner. *Published for the Automatic Programming Information Centre, Brighton College of Technology by Academic Press, London-New York,* 1964. x + 316 *pp. (1 insert)* (D. Vaida) 30 #1634

Intuitionism and proof theory
* Intuitionism and proof theory (Proceedings of the Summer Conference at Buffalo, N. Y., 1968). Edited by A. Kino, J. Myhill and R. E. Vesley. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam-London,* 1970. viii + 516 *pp.* (Editors) 42 #5774

Istanbul Summer School of Theoretical Physics, Lectures
* Group theoretical concepts and methods in elementary particle physics. Lectures of the Istanbul Summer School of Theoretical Physics, July 16-August 4, 1962. Edited by Feza Gürsey. Quantum Physics and Its Applications, Vol. I. *Gordon and Breach, Science Publishers, New York-London,* 1964. vii + 425 *pp.* (Editors) 30 #874

Italy. See Unione Matematica Italiana.

Jacobische elliptische Funktionen, Legendresche elliptische Normalintegrale und spezielle Weierstrasssche Zeta- und Sigma-Funktionen (See Tölke, Friedrich, 36 #433)

James & James mathematics dictionary
* James & James mathematics dictionary (multilingual edition). Third edition. *D. Van Nostrand Co., Inc., Princeton, N. J.-London-Toronto, Ont.,* 1968. viii + 517 *pp.* (Editors) 37 #11

John Pecham and the science of optics: *Perspectiva communis*
* John Pecham and the science of optics: *Perspectiva communis.* Edited with an introduction, English translation, and critical notes by David C. Lindberg. *The University of Wisconsin Press, Madison, Wis.-London,* 1970. xvii + 300 *pp.* (J. A. Lohne) 43 #2925

Joint Automatic Control Conference
* 1968 (Ninth) Joint Automatic Control Conference. The University of Michigan, Ann Arbor, Mich., June 26-28, 1968. Sponsored by the American Automatic Control Council. *Institute of Electrical and Electronics Engineers, New York,* 1968. (Editors) 40 #1233
* Eleventh (1970) Joint Automatic Control Conference of the American Automatic Control Council (Georgia Institute of Technology, Atlanta, Ga., June 22-26, 1970). Preprints of technical papers. *The American Society of Mechanical Engineers, New York,* 1970. xxi + 885 *pp.* (Editors) 41 #8051

Joint statistical papers of J. Neyman and E. S. Pearson
* Joint statistical papers of J. Neyman and E. S. Pearson. *University of California Press, Berkeley, Calif.,* 1967. iv + 299 *pp.* (Editors) 36 #6031

Journées Leibniz. Organisées au Centre International de Synthèse
* Leibniz (1646-1716): Aspects de l'homme et de l'oeuvre. Journées Leibniz. Organisées au Centre International de Synthèse, salon de Madame de Lambert, les 28, 29 et 30 mai 1966. *Éditions Aubier-Montaigne, Paris,* 1968. 294 *pp.* (F. C. Kreiling) 40 #4062

JUSE Sympos. Math. Programming
* Dynamic Programming. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 1. Edited by T. Kitagawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 52 *pp.* (Editors) 30 #2931
* Queueing Theory. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 2. Edited by K. Kunisawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 81 *pp.* (Editors) 30 #2576
* Linear Programming. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 3. Edited by K. Kunisawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 41 *pp.* (Editors) 30 #2932

Kabardino-Balkarsk. Gos. Univ.
* Труды ежегодной научной конференции, проходившей 20-22 мая 1965 г. (Russian) [Proceedings of the Annual Scientific Conference held May 20-22, 1965] Published as Issue No. 24 of Kabardino-Balkarsk. Gos. Univ. Učen. Zap. *Kabardino-Balkarsk. Gos. Univ., Nal'chik,* 1965. 367 *pp.* (Editors) 35 #2698

Kazakh Interuniversity Scientific Conference
* Труды первой Казахстанской межвузовской научной конференции по математике и механике (17-22 Октября 1963 года). (Russian) [Proceedings of the First Kazakh Interuniversity Scientific Conference on Mathematics and Mechanics (October 17-22, 1963] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. 284 *pp.* (Editors) 33 #4

Kazan State University Science Survey Conference

* Итоговая научная конференция Казанского государственного университета имени В. И. Ульянова-Ленина за 1962 год. (Russian) [V. I. Ul'janov-Lenin Kazan State University science survey conference for the year 1962] Sections on mathematics, mathematical statistics and cybernetics, applied mathematics and mechanics. *Izdat. Kazan. Univ., Kazan,* 1963. 194 *pp.* (Editors) 32 #3980

Kinematics and dynamics of stellar systems

* Кинематика и динамика звездных систем и физика межзвездной среды. (Материалы всесоюзного совещания, состоявшегося в Алма-Ате 10-16 Октября 1963 года). (Russian) [Kinematics and Dynamics of Stellar Systems and the Physics of the Interstellar Medium. (Proceedings of the All-Union Conference held in Alma-Ata, October 10-16, 1963)] *Izdat. "Nauka", Alma-Ata,* 1965. 307 *pp.* (Editors) 31 #3210

Kinetic theory

* Lectures in theoretical physics. Vol. IXC: Kinetic theory. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin. *Gordon and Breach Science Publishers, In., New York-London-Paris,* 1967. xii + 791 *pp.* (Editors) 38 #5433c

Kleine Enzyklopädie Mathematik

* Kleine Enzyklopädie Mathematik. Zweite Auflage. *VEB Verlag Enzyklopädie, Leipzig,* 1967. 837 *pp. (72 plates)* (Editors) 35 #1431

Konferenz über Nichtlineare Schwingungen

* Dritte Konferenz über Nichtlineare Schwingungen, Berlin 25.-30. Mai 1964. Teil I. Quantitative und qualitative Verfahren in der Theorie der nichtlinearen Schwingungen. Herausgegeben von K. Schröder und R. Reissig. Bearbeitet von G. Maess, W. Müller, H. Rothkirch. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1. *Akademie-Verlag, Berlin,* 1965. x + 384 *pp.* (Editors) 33 #905

* Dritte Konferenz über Nichtlineare Schwingungen, Berlin vom 25. bis 30. Mai 1964. Teil II. Technische Schwingungsprobleme und Fragen der Regelung und Steuerung. Herausgegeben von K. Schröder und R. Reissig. Bearbeitet von G. Maess, W. Müller, H. Rothkirch. Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech. 1965, no. 2. *Akademie-Verlag, Berlin,* 1966. xi + 464 *pp. (13 plates)* (Editors) 35 #1239

Kourov notebook. Unsolved problems in the theory of groups

* Коуровская тетрадь. Нерешенные кадачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups] Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1965. 18 *pp.* (F. L. Hardy) 34 #4339

* Коуровская тетрадь. Нерешенные задачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups] Second augmented edition. Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1967. 36 *pp.* (Editors) 37 #1448

Kreiselprobleme [Gyrodynamics] Symposion Celerina)

* Kreiselprobleme [Gyrodynamics]. Symposion Celerina, 20. bis 23. August, 1962. Edited by Hans Ziegler. International Union of Theoretical and Applied Mechanics. *Springer-Verlag, Berlin,* 1963. xi + 303 *pp.* (Editors) 29 #4229

K-theory

* Séminaire Heidelberg-Saarbrücken-Strasbourg sur la *K*-théorie (1967/68). Lecture Notes in Mathematics, Vol. 136. *Springer-Verlag, Berlin-New York,* 1970. iv + 264 *pp.* (Editors) 41 #6944

Kuramochi boundaries of Riemann surfaces

* Kuramochi boundaries of Riemann surfaces. A Symposium held at the Research Institute for Mathematical Sciences, Kyoto University, October 1965. Lecture Notes in Mathematics, No. 58. *Springer-Verlag, Berlin-New York,* 1968. iii + 102 *pp.* (Editors) 38 #3424

KWIC index

* M.C. publications, 1946-1971. Part 2: KWIC index. *Mathematical Centre, Amsterdam,* 1971. ii + 121 *pp.* (Editors) 43 #3066b

Laminar flows

* Theory of laminar flows. Edited by F. K. Moore. High Speed Aerodynamics and Jet Propulsion, Vol. IV. *Princeton University Press, Princeton, N. J.,* 1964. xv + 869 *pp.* (Editors) 30 #3637

Large scale problems in physics

* Proceedings of the IBM Scientific Computing Symposium on Large-Scale Problems in Physics. Held at Yorktown Heights, N. Y., December 9-11, 1963. *IBM Data Processing Division, White Plains, N. Y.,* 1965. xvii + 252 *pp.* (Editors) 40 #4037

Lattice theory

* Trends in lattice thoery. Edited by J. C. Abbott. Symposium held at the United States Naval Academy in May of 1966. Van Nostrand Reinhold Mathematical Studies, No. 31. *Van Nostrand Reinhold Co., New York-Toronto, Ont.-London,* 1970. ix + 215 *pp.* (Editors) 42 #5863

Latvian mathematical yearbook

* Латвийский математический ежегодник за 1965 год. (Russian) Latvian mathematical yearbook for 1965] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1966. 403 *pp.* (Editors) 33 #1191

* Латвийский математический ежегодник. 2. (Russian) [Latvian mathematical yearbook. 2] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1966. 362 *pp.* (Editors) 34 #4083

* Латвийский математический ежегодник. 3. (Russian) [Latvian mathematical yearbook. 3] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1968. 363 *pp.* (Editors) 38 #5544

* Латвийский математический ежегодник. 4. (Russian) [Latvian mathematical yearbook. 4] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1968. 410 *pp. (loose errata)* (Editors) 38 #5545

* Латвийский математический ежегодник. 5. (Russian) [Latvian mathematical yearbook. 5] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1969. 202 *pp.* (Editors) 41 #1463

* Латвийский математический ежегодник. 6. (Russian) [Latvian mathematical yearbook. 6] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1969. 208 *pp. (loose errata)* (Editors) 41 #1464

* Латвийский математический ежегодник. 7. (Russian) [Latvian mathematical yearbook. 7] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1970. 301 *pp.* (Editors) 42 #4347

* Латвийский математический ежегодник. 8. (Russian) [Latvian mathematical yearbook. 8] Latvian State University. Academy of Sciences of the Latvian SSR. *Izdat. "Zinatne", Riga,* 1970. 261 *pp.* (Editors) 42 #4348

Law of mass action

(See Prigogine, I., 31 #4518)

Learning systems

* Automation theory and learning systems. Edited by D. J. Stewart, from contributions selected by Stafford Beer, F. H. George and the late Richard Goodman. *Academic Press, London; Thompson Book Co., Inc., New York,* 1967. xi + 215 *pp.* (Editors) 36 #7442

Lectures in Applied Mathematics

(See Bers, Lipman; John, Fritz; Schechter, Martin, 29 #346; Jost, Res, 31 #1929; and Friedrichs, Kurt O., 32 #365)

* Space mathematics. Part 1. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 5. *American Mathematical Society, Providence, R. I.,* 1966. xvi 296 *pp.* (Editors) 34 #2397a

* Space mathematics. Part 2. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 6. *American Mathematical Society, Providence, R. I.,* 1966. v + 258 *pp.* (Editors) 34 #2397b

* Space mathematics. Part 3. Edited by J. Barkley Rosser. Lectures in Applied Mathematics. Vol. 7. *American Mathematical Society, Providence, R. I.,* 1966. v + 315 *pp.* (Editors) 34 #2397c

Lectures in differential equations

* Lectures in differential equations. Vol. I. Edited by A. K. Aziz. Van Nostrand Mathematical Studies, No. 18. *Van Nostrand; Reinhold Co., New York-Toronto, Ont.-London,* 1969. vii + 199 *pp.* (Editors) 39 #3069

Lectures on the many-body problem

* Lectures on the many-body problem. Vol. 2. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1964. xi + 294 *pp.* (Editors) 31 #2003

Lectures in modern analysis and applications

* Lectures in modern analysis and applications. I. Edited by C. T. Taam. Lecture Notes in Mathematics, Vol. 103. *Springer-Verlag, Berlin-New York,* 1969. vii + 162 *pp.* (Editors) 39 #5278

* Lectures in modern analysis and applications. II. Edited by C. T. Taam. Lecture Notes in Mathematics, Vol. 140. *Springer-Verlag, Berlin-New York,* 1970. vi + 119 *pp. (loose erratum)* (Editors) 41 #8183

* Lectures in modern analysis and applications. III. Edited by C. T. Taam. Lecture Notes in Mathematics, Vol. 170. *Springer-Verlag, Berlin-New York,* 1970. vi + 213 *pp.* (Editors) 42 #4349

Lectures on modern mathematics

* Lectures on modern mathematics. Vol. I. Edited by T. L. Saaty. *John Wiley & Sons, Inc., New York-London,* 1963. ix + 175 *pp.* (Editors) 31 #2104a

* Lectures on modern mathematics. Vol. II. Edited by T. L. Saaty. *John Wiley & Sons, Inc., New York-London-Sydney,* 1964. ix + 183 *pp.* (Editors) 31 #2104b

* Lectures on modern mathematics. Vol. III. Edited by T. L. Saaty. *John Wiley & Sons, Inc., New York-London Sydney,* 1965. ix + 321 *pp.* (Editors) 31 #2104c

Lectures on ordinary differential equations

* Lectures on ordinary differential equations. Edited by Robert McKelvey. *Academic Press, New York-London,* 1970. x + 495 *pp.* (Editors) 41 #3848

Lectures on particles and field theory

* Lectures on particles and field theory. Brandeis Summer Institute in Theoretical Physics, 1964, Vol. 2. Lectures by K. Johnson, D. B. Lichtenberg, J. Schwinger, S. Weinberg. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1965. vii + 485 *pp.* (Editors) 32 #2070

Lect. Sem. on High-Energy Physics and Elementary Particles

* High-energy physics and elementary particles. Lectures presented at the seminar on high-energy physics and elementary particles, organized by and held at the International Centre for Theoretical Physics, Trieste, May 3 to June 30, 1965. *International Atomic Energy Agency, Vienna,* 1965. xvii + 1006 *pp.* (Editors) 33 #8183

Lectures in theoretical physics

* Lectures in theoretical physics. Vol. VI. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1963. Edited by Wesley E. Brittin and Willard R. Chappell. *The University of Colorado Press, Boulder, Colo.,* 1964. ix + 516 *pp.* (Editors) 29 #4419

* Lectures in theoretical physics. Vol. VII A. Lorentz group. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1964. Edited by Wesley E. Brittin and Asim O. Barut. *The University of Colorado Press, Boulder, Colo.,* 1965. viii + 386 *pp.* (Editora) 32 #2037

* Lectures in theoretical physics. Vol. VIII B: Fundamental particles and high energy physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. viii + 428 *pp.* (Editors) 34 #5403

* Lectures in theoretical physics. Vol. VIII A: Statistical physics and solid state physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. vi + 355 *pp.* (Editors) 34 #5457

* Lectures in theoretical physics. Vol. IXA: Mathematical methods of theoretical physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin, Asim O. Barut and Marcel Guenin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. ix + 400 *pp.* (Editors) 38 #5433a

* Lectures in theoretical physics. Vol. IXB: High energy and particle physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin and Asim O. Barut. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xi + 436 *pp.* (Editors) 38 #5433b

* Lectures in theoretical physics. Vol. IXC: Kinetic theory. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin. *Gorodn and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xii + 791 *pp.* (Editors) 38 #5433c

* Lectures in theoretical physics. Vol. XA: Quantum theory and statistical physics. Lectures delivered at the Tenth Summer Institute of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. x + 573 *pp.* (Editors) 38 #4099a

* Lectures in theoretical physics. Vol. XB: High energy physics and fundamental particles. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. xiii + 708 *pp.* (Editors) 38 #4099b

Leibniz (1646-1716): Aspects de l'homme et de l'oeuvre

* Leibniz (1646-1716): Aspects de l'homme et de l'oeuvre. Journées Leibniz. Organisées au Centre International de Synthèse, salon de Madame de Lambert, les 28, 29 et 30 mai 1966. *Éditions Aubier-Montaigne, Paris,* 1968. 294 *pp.* (F. C. Kreiling) 40 #4062

Leibniz-Bibliographie. Die Literatur über Leibniz

* Leibniz-Bibliographie. Die Literatur über Leibniz. Bearbeitet von Kurt Müller. Veröffentlichungen des Leibniz-Archives herausgegeben von der Niedersächsischen Landesbibliothek, Band 1. *Vittorio Klostermann, Frankfurt am Main,* 1967. xx + 478 *pp.* (F. Krafft) 38 #14

Leningrad City Seminar

* Исследования по некоторым проблемам конструктивной теории функций. (Russian) [Studies in certain problems of the constructive theory of functions] A collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions. No. 1. Leningrad. Meh. Inst. Sb. Naučn. Trudov, No. 50. *Leningrad. Meh. Inst., Leningrad,* 1965. 249 *pp. (errata insert)* (Editors) 39 #1853

Leningrad. Meh. Inst. Sb. Naučn. Trudov

* Исследования по некоторым проблемам конструктивной теории функций. (Russian) [Studies in certain problems of the constructive theory of functions] A collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions. No. 1. Leningrad. Meh. Inst. Sb. Naučn. Trudov, No. 50. *Leningrad. Meh. Inst., Leningrad,* 1965. 249 *pp. (errata insert)* (Editors) 39 #1853

Lettres de Bouguer à Euler

Lettres de Bouguer à Euler. Publication et notes par Roland Lamontagne. *Rev. Histoire Sci. Appl.* 19 (1966), 225-246. (V. E. Thoren) 37 #6151

Lie groups

* Translations, Ser. 1, Vol. 9: Lie groups. *American Mathematical Society, Providence, R. I.,* 1962. iii + 541 *pp.* (Editors) 38 #1984

Lie series

* Contributions to the method of Lie series. Edited by W. Gröbner and H. Knapp. B. I. Hochschulskripten, 802/802a. *Bibliographisches Institut, Mannheim,* 1967. vi + 265 *pp.* (Editors) 39 #6027

Life sciences

* Mathematical aspects of life sciences. Edited by M. T. Wasan. Queen's Papers in Pure and Applied Mathematics, No. 26. *Queen's University, Kingston, Ont.,* 1971. iii + 255 *pp.* (Editors) 42 #8943

Limit theorems and probabilistic processes

* Пределные теоремы и вероятностные процессы. (Russian) [Limit theorems and probabilistic processes] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. 98 *pp.* (Editors) 36 #5969

Limit theorems and statistical inference

* Предельные теоремы и статистические выводы. (Russian) [Limit theorems and statistical inference] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1966. 163 *pp.* (Editors) 33 #4983

Linear equations of math. physics

* Linear equations of mathematical physics. Edited by S. G. Mihlin. English translation edited by Harry Hochstadt. *Holt, Rinehart and Winston, Inc., New York-Toronto, Ont.-London,* 1967. xiii + 318 *pp.* (Editors) 34 #6278

Linear operators

* Проблемы математического анализа. Вып. 2: Линейные операторы и операторные уравнения. (Russian) [Problems of mathematical analysis. No. 2: Linear operators and operator equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ., Leningrad,* 1969. 157 *pp.* (Editors) 41 #7453

Linear Programming

* Linear Programming. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 3. Edited by K. Kunisawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 41 *pp.* (Editors) 30 #2932

Linear sequential switching circuits

* Linear sequential switching circuits. Selected technical papers. Edited by William H. Kautz. *Holden-Day, Inc., San Francisco-London-Amsterdam,* 1965. v + 234 *pp.* (Editors) 31 #6729

Lineare Strukturen in Mathematik und Statistik

(See Roppert, J.; Fischer, G., 32 #6593)

Linguistics

* Структурно-математична лингвистика. (Russian) [Structural mathematical linguistics] *Vidavnictvo "Naukova Dumka", Kiev,* 1965. 151 *pp.* 32 #5470

Local Fields, Proc. Conf.

* Proceedings of a Conference on Local Fields. NUFFIC Summer School held at Driebergen (The Netherlands) in 1966. Edited by T. A. Springer. *Springer-Verlag, Berlin-New York,* 1967. v + 214 *pp.* (Editors) 37 #3885

Logic

* Математическая логика и ее применение. (Russian) [Mathematical logic and its applications] A collection of articles edited by E. Nagel, P. Suppes and A. Tarski. Translated from the English by A. E. Mal'cev. *Izdat. "Mir", Moscow,* 1965. 341 *pp.* (Editors) 33 #5444

* Polish logic: 1920-1939. Papers by Ajdukiewicz, Chwistek, Jaśkowski, Jordan, Leśniewski, Łukasiewicz, Słupecki, Sobociński and Wajsberg. With an introduction by Tadeusz Kotarbiński. Edited by Storrs McCall. Translated by B. Gruchman, H. Hiz, Z. Jordan, E. C. Luschei, S. McCall, W. Teichmann, H. Weber and P. Woodruff. *Clarendon Press, Oxford,* 1967. viii + 406 *pp.* (Editors) 36 #1287

* Математическая теория логического вывода. (Russian) [Mathematical theory of logical inference] Collection of translations edited by A. V. Idel'son and G. E. Minc. *Izdat. "Nauka", Moscow,* 1967. 351 *pp.* (Editors) 36 #4957

* Contributions to mathematical logic (Proceedings of the Logic Colloquium, Hannover, 1966). Edited by H. Arnold Schmidt, Kurt Schütte and H.-J. Thiele. *North-Holland Publishing Co., Amsterdam,* 1968. x + 298 *pp.* (Editors) 38 #3120

Logic colloquium

* Formal systems and recursive functions. Edited by J. N. Crossley and M. A. E. Dummett. Proceedings of the Eighth Logic Colloquium, Oxford, July 1963. *North-Holland Publishing Co., Amsterdam,* 1965. ix + 320 *pp.* (Editors) 31 #4722

* Logic Colloquium '69. Proceedings of the Summer School and Colloquium in Mathematical Logic, Manchester, August 1969. Edited by R. O. Gandy and C. E. M. Yates. Studies in Logic and the Foundations of Mathematics, Vol. 61. *North-Holland Publishing Co., Amsterdam-London,* 1971. xiv + 451 *pp.* (Editors) 42 #7479

Logic and foundations of mathematics

* Logic and foundations of mathematics. Dedicated to Prof. A. Heyting on his 70th birthday. *Wolters-Noordhoff Publishing, Groningen,* 1968. 248 *pp. (1 plate)* (Editors) 40 #1255

Logic and foundations of science

* E. W. Beth Memorial Colloquium. Logic and foundations of science (Paris, Institut Henri Poincaré, 19-21 May 1964). Edited by Jean-Louis Destouches. *D. Reidel Publishing Co., Dordrecht; The Humanities Press, New York,* 1968. viii + 137 *pp. (1 plate)* (Editors) 39 #30

Logic, methodology and philosophy of science

* Logic, methodology and philosophy of science. Proceedings of the 1960 International Congress. Edited by Ernest Nagel, Patrick Suppes and Alfred Tarski. *Stanford University Press, Stanford, Calif.,* 1962. ix + 661 *pp.* (Editors) 29 #3347

* Logic, methodology and philosophy of science. Proceedings of the 1964 International Congress. Edited by Yehoshua Bar-Hillel. *North-Holland Publishing Co., Amsterdam,* 1965. viii + 440 *pp.* (Editors) 34 #2426

* Logic, methodology and philosophy of science. III. Proceedings of the Third International Congress for Logic, Methodology and Philosophy of Science, Amsterdam, 1967. Edited by B. van Rootselaar and J. F. Staal. *North-Holland Publishing Co., Amsterdam,* 1968. xiii + 533 + i *pp.* (Editors) 40 #14

Logical semantics and modal logic

* Логическая семантика и модальная логика. (Russian) [Logical semantics and modal logic] Academy of Sciences of the USSR. Institute of Philosophy. *Izdat. "Nauka", Moscow,* 1967. 278 *pp. (errata insert)* (Editors) 36 #1286

Logique et Analyse

* Le raisonnement juridique et la logique déontique (Actes colloq., Bruxelles, 22-23 décembre 1969). Logique et Analyse (N.S.) 13 (1970), no. 49-50. *Éditions Nauwelaerts, Louvain-Paris,* 1970. 271 *pp.* (Table of contents) 42 #1648

Logique et connaissance scientifique

* Logique et connaissance scientifique. Volume publié sous la direction de Jean Piaget. Encyclopédie de la Pléiade, Vol. XXII. *Éditions Gallimard, Paris,* 1967. xiv + 1345 *pp.* (A. Heyting) 35 #2718

Lorentz group

* Lectures in theoretical physics. Vol. VII A. Lorentz group. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1964. Edited by Wesley E. Brittin and Asim O. Barut. *The University of Colorado Press, Boulder, Colo.,* 1965. viii + 386 *pp.* (Editors) 32 #2037

Low-temperature physics

* Low-temperature physics. Conduction electrons—superconductivity—helium—magnetism—Mössbauer effect—defects and irradiation. Lectures delivered at Les Houches during the 1961 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt, B. Dreyfus and P. G. de Gennes. *Gordon and Breach Science Publishers, New York,* 1962. xvi 638 *pp.* (Editors) 32 #3764

MAA Studies in Mathematics

* Studies in real and complex analysis. Edited by I. I. Hirschman, Jr. MAA Studies in Mathematics, Vol. 3. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1965. v + 213 *pp.* (Editors) 32 #1080

* Studies in global geometry and analysis. Edited by S. S. Chern. MAA Studies in Mathematics, Vol. 4. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1967. v + 197 *pp.* (Editors 35 #1429

* Studies in modern topology. Edited by P. J. Hilton. MAA Studies in Mathematics, Vol. 5. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1968. vii + 212 *pp.* (Editors) 36 #5932

* Studies in number theory. Edited by W. J. LeVeque. MAA Studies in Mathematics, Vol. 6. *The Mathematical Association of America, Buffalo, N. J. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1969. vii + 212 *pp.* (Editors) 39 #1388

Machine intelligence

* Machine intelligence. 4. Edited by Bernard Meltzer and Donald Michie. With a preface by Michael Swann. *American Elsevi Publishing Co., Inc., New York,* 1969. viii + 508 *pp.* (Editors) 40 #3749

* Machine intelligence. 5. Edited by Bernard Meltzer and Donald Michie. With a previously unpublished report by A. M. Turing [1912-1954]. *American Elsevier Publishing Co., Inc., New York,* 1970. vii + 588 *pp.* (Editors) 41 #2974

* Machine intelligence. 6. Edited by Bernard Meltzer and Donald Michie. With a perspective view by R. L. Gregory. *American Elsevier Publishing Co., Inc., New York,* 1971. v + 525 *pp* (Editors) 42 #9102

Machine translation

* Automation in language translation and theorem proving. Some applications of mathematical logic. Edited by P. Braffort and F. van Scheepen. EUR 4038 e. *Commission of the European Communities, Directorate-General for Dissemination of Information, Brussels,* 1968. xv + 295 *pp.* (Editors) 38 #3119

Machines

* Information processing machines. 14. Research Institute of Mathematical Machines, Prague. Czechoslovak Academy of Sciences. *Academia Publishing House of the Czechoslovak Academy of Sciences Prague,* 1968. 305 *pp.* (Editors) 40 #4030

Magnetism

* Magnetism. A treatise on modern theory and materials. Vol. II Statistical models, magnetic symmetry, hyperfine interactions, and metals. Part A. Edited by George T. Rado and Harry Suhl. *Academic Press, New York-London,* 1965. xv + 443 *pp.* (Editors) 31 #3178

Magneto-fluid dynamics

* Proceedings of Symposia in Applied Mathematics. Vol. XVIII: Magneto-fluid and plasma dynamics. Edited by Harold Grad. *American Mathematical Society, Providence, R. I.,* 1967. vii + 293 *pp.* (Editors) 35 #2543

Magnetofluidodinamica

* Magnetofluidodinamica. 3° Ciclo, Varenna, Villa Monastero, 28 settembre - 6 ottobre 1962. Centro Internazionale Matematico Estivo (C.I.M.E.) *Edizioni Cremonese, Rome,* 1964. 330 *pp. (not consecutively numbered).* (Editors) 29 #5502

Magnetohydrodynamics and plasma dynamics

* Вопросы магнитной гидродинамики и динамики плазмы. II. (Russian) [Problems of magnetohydrodynamics and plasma dynamics. I Proceedings of the second conference on theoretical and applied magnetohydrodynamics held in Riga, June 27-July 2, 1960. *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. 660 *pp.* (Editors) 31 #6501

Magnetohydrodynamic stability and thermonuclear containment

* Magnetohydrodynamic stability and thermonuclear containment. A collection of reprints with an introductory review by A. Jeffrey and T. Taniuti. *Academic Press, New York-London,* 1966. viii + 222 *pp.* (Editors) 33 #7063

La magnétohydrodynamique classique et relativiste

* La magnétohydrodynamique classique et relativiste. Actes du Colloque International organisé à Lille, du 16 au 20 juin 1969. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 184. *Éditions du Centre National de la Recherc Scientifique, Paris,* 1970. 312 *pp.* (Editors) 43 #4341

Maitrise de mathématiques

(See Ehresmann, Charles, 38 #2189)

Manifolds

* Manifolds—Amsterdam 1970. Proceedings of the Nuffic Summer School on Manifolds, Amsterdam, August 17-29, 1970. Edited by Nicolaas H. Kuiper. Lecture Notes in Mathematics, Vol. 197. *Springer-Verlag, Berlin-New York,* 1971. iv + 231 *pp.* (Editors) 43 #4041

Manuscript legacy of academician Alekseĭ Nikolaevič Krylov

* Рукописное наследие академика Алексея Николаевича Крылова. Научное описание. (Russian) [The manuscript legacy of academician Alekseĭ Nikolaevič Krylov. Scientific description] Edited by V. I. Smirnov. Compiled by M. N. Glagoleva, N. M. Raskin, N. G. Skrynskiĭ and L. M. Stolin. Trudy Arhiva Akad. Nauk SSSR, Vyp. 23. *Izdat. "Nauka", Leningrad. Otdel., Leningrad,* 1969. 333 *pp. (1 plate)* (From the introduction) 40 #2510

Manuscripts of L. Euler in the Archives of the Academy of Sciences of the USSR

* Рукописные материалы Л. Эйлера в Архиве Академии Наук СССР. Том I. Научное описание. (Russian) [Manuscripts of L. Euler in the Archives of the Academy of Sciences of the USSR. Vol. I. Scientific description] Compiled by Ju. H. Kopelevič, M. V. Krutikova, G. K. Mihaĭlov and N. M. Raskin. Editorial committee; G. A. Kjazev, G. K. Mihaĭlov, N. M. Raskin. V. I. Smirnov and A. P. Juškevič. Academy of Sciences of the USSR. Transactions of the Archives, No. 17. *Izdat. Akad. Nauk SSSR, Moscow,* 1962. 427 *pp. (1 plate)* (C. Truesdell) 34 #5620

* Рукописные материалы Л. Эйлера в Архиве Академии Наук СССР Том. II. Труды по механике. Часть I. (Russian) [Manuscripts of L. Euler in the Archives of the Academy of Sciences of the USSR. Vol. II. Works on mechanics. Part I.] Edited by G. K. Mihaĭlov. Translated from the Latin by I. A. Perel′muter. Editorial committee: G. A. Knjazev, G. K. Mihaĭlov, N. M. Raskin. V. I. Smirnov and A. P. Juškevič. Academy of Sciences of the USSR. Transactions of the Archives, No. 20. *Izdat. "Nauka", Moscow,* 1965. 574 *pp.* (C. Truesdell) 34 #5621

Many-body problem

* Lectures on the many-body problem. Vol. 2. Edited by E. R. Caianiello. *Academic Press, New York-London,* 1964. xi + 294 *pp.* (Editors) 31 #2003

Many-body theory

* Many-body theory. 1965 Tokyo Summer Lectures in Theoretical Physics, Part I. Edited by Ryogo Kubo. *Syokabô, Tokyo; Benjamin, New York,* 1966. v + 160 *pp.* (Editors) 33 #5313a

The many facets of graph theory

* The many facets of graph theory. Proceedings of the Conference held at Western Michigan University, Kalamazoo, Mich., October 31-November 2, 1968. Edited by G. Chartrand and S. F. Kapoor. Lecture Notes in Mathematics, No. 110. *Springer-Verlag, Berlin-New York,* 1969. viii + 290 *pp.* (Editors) 40 #4161

Markov processes and potential theory, Proc. Sympos.

* Markov processes and potential theory. Proceedings of a Symposium conducted by the Mathematics Research Center and the United States Army at the University of Wisconsin, Madison, Wis., May 1-3, 1967. Edited by Joshua Chover. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 235 *pp.* (Editors) 37 #3647

Materials for the forthcoming Scientific Conference of the Novokuznetsk Pedagogical Institute

* Материалы к предстоящей VIII научной конференции Новокузнецкого педагогического инстисуса. Серия фезико-математическая. (Russian) [Materials for the forthcoming Eighth Scientific Conference of the Novokuznetsk Pedagogical Institute. Physics and mathematics series] *Novokuzneck. Gosudarstv. Ped. Inst., Novokuznetsk,* 1967. 172 *pp.* (Editors) 42 #5

Materials of the Mathematics and the Physics Interuniversity Scientific Conferences of the Far East

* Материалы седьмой математической и седьмой физической межвузовских научных конференций Дальнего Востока. (Russian) [Materials of the Seventh Mathematics and the Seventh Physics Interuniversity Scientific Conferences of the Far East] *Habarovsk. Gosudarstv. Ped. Inst., Khabarovsk,* 1968. 197 *pp.* (Editors) 39 #2552

Materials of a Scientific Conference on Mathematics and Mechanics

* Труды второй научной конфиринции математических кафедр педагогических институтов Поволжья (22-26 мая 1961 года). Вып. I. (Russian) [Proceedings of the Second Scientific Conference of Mathematical Departments of Pedagogical Institutes of the Volga Region (May 22-26, 1961). No. I.] *Kuĭbyšev. Gosudarstv. Ped. Inst., Kuybyshev,* 1962. 235 *pp.* (Editors) 34 #1131

* Материалы отчетно-научной конференции по математике и механике. (Russian) [Materials of a scientific conference on mathematics and mechanics] Academy of Sciences of the Kazakh SSR Institute of Mathematics and Mechanics. *Izdat. "Nauka", Kazah. SSR, Alma-Ata,* 1967. 68 *pp.* (Editors) 37 #8

Mathematical analysis

* Математический анализ 1963. (Russian) [Mathematical analysis 1963] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 178 *pp.* (Editors) 32 #5473

* Исследования по алгебре и математическому анализу. (Russian) [Studies in algebra and mathematical analysis] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Izdat. "Karta Moldovenjaske", Kishinev,* 1965. 159 *pp.* (Editors) 33 #7221

* Математический анализ 1964. (Russian) [Mathematical analysis 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 237 *pp. (errata insert)* (Editors) 33 #5419

* Математический анализ 1965. (Russian) [Mathematical analysis 1965] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 156 *pp. (errata insert)* (Editors) 34 #2390

* Пробвемы математического анализа. Краевые задачи и интегральные уравнения. (Russian) [Problems of mathematical analysis. Boundary value problems and integral equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ., Leningrad,* 1966. 166 *pp.* (Editors) 34 #6279

* Математический анализ. 1966. (Russian) [Mathematical analysis. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1967. 125 *pp. (errata insert)* (Editors) 38 #1974

* Progress in mathematics. Vol. 1: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1968. ix + 246 *pp.* (Editors) 36 #2454

* Progress in mathematics. Vol. 2: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1968. viii + 161 *pp.* (Editors) 36 #4940

* Progress in mathematics. Vol. 4: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian by J. S. Wood. *Plenum Press, New York-London,* 1969. viii + 132 *pp.* (Editors) 39 #6700

* Математический анализ 1967. (Russian) [Mathematical analysis 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1969. 188 *pp.* (Editors) 44 #2543

* Progress in mathematics. Vol. 8: Mathemtical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York-London,* 1970. viii + 215 *pp.* (Editors) 44 #2544

Mathematical analysis and its applications

* Математический анализ и его приложения. (Russian) [Mathematical analysis and its applicaitons] *Izdat. Rostov. Univ., Rostov-na-Donu,* 1969. 195 *pp.* (Editors) 43 #7276

Mathematical analysis. Theory of probability. Control

* Математический анализ. Теория вероятностей. Регулирование (1962). (Russian) [Mathematical analysis. Theory of probability. Control (1962)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1964. 211 *pp.* (Editors) 34 #3258

Mathematical aspects of computer science

* Proceedings of Symposia in Applied Mathematics. Vol. XIX: Mathematical aspects of computer science. Edited by J. T. Schwartz. *American Mathematical Society, Providence, R. I.,* 1967. v + 224 *pp.* (Editors) 38 #2975

Mathematical aspects of life sciences

* Mathematical aspects of life sciences. Edited by M. T. Wasan. Queen's Papers in Pure and Applied Mathematics, No. 26. *Queen's University, Kingston, Ont.,* 1971. iii + 255 *pp.* (Editors) 42 #8943

Mathematical Centre publications

* M. C. publications, 1946-1971. Part 1: Bibliography and author index. *Mathematical Centre, Amsterdam,* 1971. vii + 190 *pp.* (Editors) 43 #3066a

* M. C. publications, 1946-1971. Part 2: KWIC index. *Mathematical Centre, Amsterdam,* 1971. ii + 121 *pp.* (Editors) 43 #3066b

Mathematical conference

* Первая Республиканская Конференция Молодых Исследователей (Киев, 2-4 апреля 1964). Вып. II. (Russian) [First Republican Mathematical Conference of Young Researchers (Kiev, April 2-4, 1964). Part II] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 754 *pp.* (Editors) 32 #7368

* Первая Республиканская Математическая Конференция Молодых Исследователей (Киев, 2-4 апреля 1964). Вып. I. (Russian) [First Republican Mathematical Conference of Young Researchers (Kiev, April 2-4, 1964). Part I] *Akad. Nauk Ukrain. SSR Inst. Mat. Kiev,* 1965. 706 *pp.* (Editors) 33 #1189

Mathematical-economic methods and models. Bibliographical index

* Математико-экономечеспие методы и модели. (Применение математических методов и электронных вычислительных машин в технико-экономичеэких вопросах) Библиографический указатель. (Russian) [Mathematical-economic methods and models. (The application of mathematical methods and electronic computers to technological-economic questions) Bibliographical index] Edited by I. V. Romanovskiĭ and K. I. Šafranovskiĭ. *Izdat. "Nauka", Moscow,* 1964. 170 *pp.* (Editors) 31 #1103

Mathematical-economical methods and models

* Математико-экономические методы и модели. Применение математических методов и электронных вычислительных машин в планировании и тахнико-экономических задачах. Библиографический указатель (июнь 1963 г.-декабрь 1966 г.) (Russian) [Mathematical-economical methods and models. Applications of mathematical methods and electronic computers in planning and technical-economical problems. Bibliography (June, 1963-December, 1966)] Compiled by I. A. Lifšis , I. V. Romanovskiĭ, A. A. Korbut and T. G. Fursa. Edited by I. V. Romanovskiĭ. Academy of Sciences of the USSR. Leningrad Branch of the Steklov Institute of Mathematics. The Library of the Academy of Sciences of the USSR. *Izdat. "Nauka", Leningrad,* 1968. 314 *pp. (errata insert)* (Editors) 39 #3797

Mathematical essays dedicated to A. J. Macintyre

* Mathematical essays dedicated to A. J. Macintyre. Edited by Hari Shankar. *Ohio University Press, Athens, Ohio,* 1970. xvi + 377 *pp.* (Editors) 42 #6194

Mathematical logic

* Automation in language translation and theorem proving. Some applications of mathematical logic. Edited by P. Braffort and F. van Scheepen. EUR 4038 e. *Commission of the European Communities, Directorate-General for Dissemination of Information, Brussels,* 1968. xv + 295 *pp.* (Editors) 38 #3119
* Aspects of mathematical logic. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, Varenna, 9-17 settembre, 1968. Coordinatore: E. Casari. *Edizioni Cremonese, Rome,* 1969. ii + 285 *pp.* (Editors) 40 #4079

Mathematical logic and foundations of set theory

* Mathematical logic and foundations of set theory. Proceedings of an International Colloquium held under the auspices of the Israel Academy of Sciences and Humanities, Jerusalem, 11-14 November 1968. Edited by Hehoshua Bar-Hillel. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam-London,* 1970. v + 145 *pp.* (Editors) 42 #1643

Mathematical logic and its applications

* Математическая логика и ее применение. (Russian) [Mathematical logic and its applications] A collection of articles edited by E. Nagel, P. Suppes and A. Tarski. Translated from the English by A. I. Mal'cev. *Izdat. "Mir", Moscow,* 1965. 341 *pp.* (Editors) 33 #5444

Mathematical machines and programmed instruction

* Математические машины и программированное обучение. (Russian) [Mathematical machines and programmed instruction] *Izdat. Belorus. Gosudarstv. Univ., Minsk,* 1969. 207 *pp.* (Editors) 42 #5478

Mathematical methods

* Lectures in theoretical physics. Vol. IXA: Mathematical methods of theoretical physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin, Asim O. Barut and Marcel Guenin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. ix + 400 *pp.* (Editors) 38 #5433a

Mathematical methods in certain optimal planning problems

* Математические методы в некоторых задачах оптимального планирования. (Russian) [Mathematical methods in certain optimal planning problems] Edited by I. I. Eremin. Academy of Sciences of the USSR. Ural Branch. Sverdlovsk Division of the V. A. Steklov Institute of Mathematics. *Ural'sk. Filial Akad. Nauk SSSR, Sverdlovsk,* 1967. 83 *pp.* (Editors) 39 #3798

Mathematical methods for digital computers

* Mathematical methods for digital computers. Vol. II. Edited by Anthony Ralston and Herbert S. Wilf. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 287 *pp.* (Editors) 35 #2516

Mathematical methods in economic research

* Konference o matematických metodách v ekonomickém výzkumu (Smolenice, 8.-11. června, 1965). (Czech) [Conference on mathematical methods in economic research (Smolenice, June 8-11, 1965)] Research Publication No. 12. *Ekonom.-Mat. Lab. Ekonom. Ústavu ČSAV, Prague,* 1966. x + 292 *pp.* (Editors) 35 #2616

Mathematical methods in economics

* Математические методы в экономике. Вып. 4: Планирование и управление в водном хозяйстве. (Russian) [Mathematical methods in economics. No. 4: Planning and control in water resource management] *Izdat. "Zinatne", Riga,* 1969. 179 *pp. (2 foldouts)* (Editors) 41 #6555
* Математические методы в экомике. Вып. 5: Экономические функции и вопросы оптимального планирования в сельском хозяйстве. Типовые программы для ЭВМ. (Russian) [Mathematical methods in economics. No. 5: Economic functions and questions of optimal planning in agriculture. Standard programs for electronic computers] *Izdat. "Zinatne", Riga,* 1969. 123 *pp. (1 foldout)* (Editors) 42 #5615

Mathematical methods in nuclear physics

* Материалы совещания по математическим методам решения задач ядерной физики (Дубна, 17-20, 1964 г.) [Proceedings of the conference on mathematical methods of solution of problems in nuclear physics (Dubna, November 17-20, 1964)] Joint Institute for Nuclear Studies, Report No. 2005. *Ob"edin. Inst. Jadernyh Issled., Dubna,* 1965. 118 *pp.* (Editors) 34 #2264

Mathematical methods in prediction of industrial development

* Применение математических методов и вычислительной техники в прогнозировании производственно-технического развития предприятий и отраслей народного хозяйства (Тезисы Всесоюзного научно-технического симпозиума). (Russian) [Application of mathematical methods and computing technology to the prediction of industrial-technological development of the enterprises and branches of the national economy (Abstracts of an All-Union scientific and technological symposium)] *Moldav. Naučno-Issled. Inst. Naučno-Tehn. Informacii i Tehn.-Èkonom. Issled., Kishinev,* 1970. 249 *pp.* (Editors) 42 #7237

Mathematical methods in quality control and reliability

* Математические методы контроля качества и надежности. (Russia [Mathematical methods in quality control and reliability] Proceedings of an All-Union Colloquium (Tashkent, 1967). *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 125 *pp.* (Editors) 42 #3957

Mathematical methods in small group processes

* Mathematical methods in small group processes. Stanford Mathematical Studies in the Social Sciences, VIII. Edited by Joan H. Criswell, Herbert Solomon and Patrick Suppes. *Stanford University Press, Stanford, Calif.,* 1962. viii + 361 *pp.* (Editors 29 #4611

Mathematical methods of solution of economic problems

* Математические методы решения экономических задач. (Russian) [Mathematical methods of solution of economic problems] Supplemen to Èkonom. i Mat. Metody. Collection No. 1 (1969). *Izdat. "Nauka", Moscow,* 1969. 176 *pp.* (Editors) 43 #5892

Mathematical methods in specialized computer technology

* Математические методы в специализированной вычислительной технике (Труды семинара, Киев, 1967/68 гг.). Вып. 1. (Russian) [Mathematical methods in specialized computer technology (Proceedings of a Seminar, Kiev, 1967/68). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 123 *pp.* (Editors) 39 #5035

Mathematical methods of theoretical physics

* Lectures in theoretical physics. Vol. IXA: Mathematical methods of theoretical physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin, Asim O. Barut and Marcel Guenin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. ix + 400 *pp.* 38 #5433a

Mathematical models in physical sciences

* Mathematical models in physical sciences. Proceedings of the Conference of the University of Notre Dame, 1962. Edited by Stefan Drobot and Paul A. Viebrock. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1963. viii + 193 *pp.* (Editors) 31 #2984

Mathematical optimization techniques

* Mathematical optimization techniques. Edited by Richard Bellman. *University of California Press, Berkeley-Los Angeles, Calif.,* 1963. xii + 346 *pp.* (Editors) 31 #1100

Mathematical papers of Isaac Newton

* The mathematical papers of Isaac Newton. Vol. I: 1664-1666. Edited by D. T. Whiteside, with the assistance in publication of M. A. Hoskin. *Cambridge University Press, London-New York,* 1967. xlvii + 590 *pp. (5 plates)* (C. J. Scriba) 35 #5276
* The mathematical papers of Isaac Newton. Vol. II: 1667-1670. Edited by D. T. Whiteside, with the assistance in publication of M. A. Hoskin. *Cambridge University Press, London-New York,* 1968. xxii + 520 *pp. (5 plates; 1 foldout)* (C. J. Scriba) 37 #3901
* The mathematical papers of Isaac Newton. Vol. III: 1670-1673. Edited by D. T. Whiteside, with the assistance in publicatio of M. A. Hoskin and A. Prag. *Cambridge University Press, London-New York,* 1969. xxxviii + 576 *pp. (5 plates)* (C. J. Scriba) 41 #8197

Mathematical papers of Sir William Rowan Hamilton

* The mathematical papers of Sir William Rowan Hamilton. Vol. III: Algebra. Edited by H. Halberstam and R. E. Ingram. Cunningham Memoir No. XV. *Cambridge University Press, London-New York,* 1967. xxiv + 672 *pp. (1 plate)* (Kenneth May) 35 #4081

Mathematical physics

* Математическая физика (1965). (Russian) [Mathematical physics (1965)] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1965. 158 *pp.* (Editors) 32 #7369
* Математическая физика (1966). (Russian) [Mathematical physics (1966)] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Naukova Dumka, Kiev,* 1966. 194 *pp.* (Editors) 34 #2391
* Linear equations of mathematical physics. Edited by S. G. Mihlin. English translation edited by Harry Hochstadt. *Holt, Rinehart and Winston, Inc., New York-Toronto, Ont.-London,* 1967. xiii + 318 *pp.* (Editors) 34 #6278
* Математическая физика. Вып. 3 (1967). (Russian) [Mathematical physics. No. 3 (1967)] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1967. 287 *pp.* (Editors) 35 #2517
* Математическая физика. Вып. 4 (1968). (Russian) [Mathematical physics. No. 4 (1968)] *Naukova Dumka, Kiev,* 1968. 200 *pp.* (Editors) 41 #6431
* Математическая физика. Вып. 5 (1968). (Russian) [Mathematical physics. No. 5 (1968)] *Naukova Dumka, Kiev,* 1968. 211 *pp.* (Editors) 41 #7883
* Математическая физика. Вып. 5 (1969). (Russian) [Mathematical physics. No. 6 (1969)] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1969. 204 *pp.* (Editors) 41 #6641
* Математическая физика. Вып. 7. (Russian) [Mathematical physics. No. 7] *Naukova Dumka, Kiev,* 1970. 212 *pp.* (Editors) 42 #1621

* Проблемы математической физики. Вып. 4. Спектральная теория. Волновые процессы. (Russian) [Problems of mathematical physics. No. 4. Spectral theory. Wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1970. 135 *pp. (errata)* (Editors) 42 #2198

* Methoden und Verfahren der mathematischen Physik. Band 3 (Oktober 1970). Herausgegeben von Bruno Brosowski und Erich Martensen. B. I-Hochschulsckripten, 722/722a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1970. iv + 176 *pp.* (Editors) 42 #7111

* Математическая физика. Вып. 8. (Russian) [Mathematical physics. No. 8] *Naukova Dumka, Kiev,* 1970. 200 *pp.* (Editors) 44 #6420

* Математическая физика. Вып. 9. (Russian) [Mathematical physics. No. 9] *Naukova Dumka, Kiev,* 1971. 200 *pp.* (Editors) 44 #6421

Mathematical physics and theory of functions

* Вопросы математической физики и теории функций. I. (Russian) [Problems of mathematical physics and theory of functions. I] *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. 192 *pp.* (Editors) 32 #2

* Ворпосы математической физики и теории функций. II. (Russian) [Problems of mathematical physics and the theory of functions. II] *Naukova Dumka, Kiev,* 1964. 196 *pp.* (Editors) 32 #2292

Mathematical problems in biological sciences

* Математические проблемы в биологии. (Russian) [Mathematical problems in the biological sciences] Collection of articles edited by R. Bellman. Translated from the English by S. V. Fomin. *Izdat. "Mir", Moscow,* 1966. 278 *pp.* (Editors) 35 #4029

Mathematical problems in biology

* Some mathematical problems in biology. Proceedings of the Symposium on Mathematical Biology, Washington, D. C., December, 19-6. Foreward by Murray Gerstenhaber. Lectures on Mathematics in the Life Sciences. *American Mathematical Society, Providence, R. I.,* 1968. vi + 117 *pp.* (Editors) 38 #4160

Mathematical problems in fluid mechanics

* The mathematical problems in fluid mechanics. Institute of basic technical problems. Polish Academy of Sciences. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1967. 86 *pp.* (Editors) 37 #3807

Mathematical programming

* Математическое программирование. (Russian) [Mathematical programming] Academy of Sciences of the USSR. Institute of Mathematics of the Siberian Branch. *Izdat. "Nauka", Moscow,* 1966. 135 *pp. (errata insert)* (Editors) 35 #6441

* Исследования по математическому программированию. (Russian) [Studies in mathematical programming] Academy of Sciences of the USSR. Central Institute of Mathematical Economics. *Izdat. "Nauka", Moscow,* 1968. 224 *pp. (1 foldout)* (Editors) 43 #5915

Mathematical provisioning of electronic digital computers and effective organization of the computing process

* Математическое обеспечение ЭЦВМ и эффективная организация вычислительного процесса (Труды семинара, Киев, 1968 г.). Вып. 2. [Mathematical provisioning of electronic digital computers and effective organization of the computing process (Proceedings of a Seminar, Kiev, 1968). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 110 *pp.* (Editors) 39 #6548

Mathematical publications of M. A. Lavrent′ev

* The mathematical publications of M. A. Lavrent′ev. (Russian) *Certain Problems of Mathematics and Mechanics (On the Occasion of the Seventieth Birthday of M. A. Lavrent′ev) (Russian), pp.* 13-30. *Izdat. "Nauka", Leningrad,* 1970. (J. Burlak) 44 #5203b

Mathematical sciences: A collection of essays

* The mathematical sciences: A collection of essays. Edited by the National Research Council's Committee on Support of Research in the Mathematical Sciences (COSRIMS) with the collaboration of George A. W. Boehm. *The M.I.T. Press, Cambridge, Mass.-London,* 1969. x + 271 *pp.* (Editors) 38 #4255

Mathematical sciences: A report

* The mathematical sciences: A report. By the Committee on Support of Research in the Mathematical Sciences of the National Research Council for the Committee on Science and Public Policy, National Academy of Sciences. *National Academy of Sciences, Washington, D. C.,* 1968. xiv + 256 *pp.* 38 #4254

Mathematical sciences: Undergraduate education

* The mathematical sciences: Undergraduate education. A report by the Panel on Undergraduate Education in Mathematics of the Committee on Support of Research in the Mathematical Sciences of the National Research Council. *National Academy of Sciences, Washington, D. C.,* 1968. ix + 113 *pp.* 38 #4253

Mathematical simulation and specialized computer technology

* Кибернетика и вычислительная техника на Украине. Бибвиографический указатель. Часть 3: Математическое моделирование и специавизированная вычислительная техника. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 3: Mathematical simulation and specialized computer technology] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Izdat. "Naukova Dumka", Kiev,* 1970. 178 *pp.* (Editors) 43 #1788c

Mathematical simulation and the theory of electrical circuits

* Математическое моделирование и теория электрических цепей. Вып. 3. (Russian) [Mathematical simulation and the theory of electrical circuits. No. 3] Works of the Seminar on Methods in Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1965. 319 *pp.* (Editors) 32 #7331

* Математическое моделирование и теория электрических цепей. Вып. 7. (Russian) [Mathematical simulation and the theory of electrical circuits. No. 7] Proceedings of the Seminar on Methods of Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1970. 316 *pp.* (Editors) 42 #4350

Mathematical statistics

* Теория вероятностей. Математическая статистика (1963). [Theory of probability. Mathematical statistics (1963)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 126 *pp.* (Editors) 32 #3083

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 100 *pp.* (Editors) 36 #6

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1966. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1967. 109 *pp.* (Editors) 38 #1977

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1967. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1968. 125 *pp. (errata insert)* (Editors) 39 #2559

* Progress in mathematics. Vol. 3: Probability theory, mathematical statistics and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1969. vii + 122 *pp.* (Editors) 39 #1259

* Труды шестой математической летней школы: Теория вероятностей и математической статистике (Кацивели, 1968). (Russian) [Proceedings of the Sixth Mathematical Summer School: Probability Theory and Mathematical Statistics (Kaciveli, 1968)] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 326 *pp.* (Editors) 42 #6889

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1968. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 111 *pp.* (Editors) 41 #3209

* Теория вероятностей. Математическая статистика. Теоритическая кибернетика. 1969. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 104 *pp. (errata insert)* (Editors) 42 #4346

Mathematical statistics and probability

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. I: Statistics. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvii + 666 *pp.* (Editors) 35 #2383

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 1. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 447 *pp.* (Editors) 35 #2303

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 2. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 483 *pp.* (Editors) 35 #2304

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. III: Physical Sciences. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 324 *pp. (1 plate)* (Editors) 36 #6033

Mathematical summer school

* Первая летняя математическая школа (г. Канев, Июнь-Июль 1963 г.). Часть I. (Russian) [First mathematical summer school (Kanev, June-July, 1963). Part I] Akademija Nauk Ukrainskoĭ SSR. Institut Matematiki. *Naukova Dumka, Kiev,* 1964. 332 *pp.* (Editors) 32 #2291a

* Первая летняя математическая школа (г. Канев, Июнь-Июль 1963 г.). Часть II. (Russian) [First mathematical summer school (Kanev, June-July, 1963). Part II] Akademija Nauk Ukrainskoĭ SSR. Institut Matematiki. *Naukova Dumka, Kiev,* 1964. 348 *pp.* (Editors) 32 #2291b

* Вторая летняя математическая школа (Кацивели, Июнь-Июль 1964 г.). Часть I. (Russian) [Second mathematical summer school (Kaciveli, June-July, 1964). Part I] Akademija Nauk Ukrainskoĭ SRR. Institut Matematiki. *Naukova Dumka, Kiev,* 1965. 199 *pp.* (Editors) 32 #2293

* Вторая летняя математическая школа Кацивели, Июнь-Июль 1964 г. . Часть II. (Russian) [Second mathematical summer school (Kaciveli, June-July, 1964). Part II] Academija Nauk Ukrainskoĭ SSR. Institut Matematiki. *Naukova Dumka, Kiev,* 1965. 232 *pp.* (Editors) 32 #7370

* Третья летная математическая школа (Кацивели, июнь-июль, 1965): Конструктивная теория функций. (Russian) [Third Mathematical Summer School (Kaciveli, June-July, 1965): Constructive theory of functions] Edited by Ju. A. Mitropol'skiĭ, V. K. Dzjadyk and S. M. Nikol'skiĭ. Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev,* 1966. 242 *pp.* (Editors) 36 #1881

* четвертая летняя математическая школа (Кацивели, июнь-июль 1966 г.). (Russian) [Fourth Mathematical Summer School (Kaciveli, June-July, 1966] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev,* 1968. 270 *pp.* (Editors) 41 #3203

* Пятая летняя математическая школа (г. Ужгород, июнь-июль 1967 год): Теория обыкновенных дифференциальных уравнений и нелинейных колебаний. (Russian) [Fifth Mathematical Summer School (Uzhgorod June-July, 1967): The theory of ordinary differential equations and nonlinear oscillations] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. 550 *pp.* (Editors) 41 #3849

* Труды шестой математической летней школы: Теория вероятностей и математической статистике (Кацивели, 1968). (Russian) [Proceedings of the Sixth Mathematical Summer School: Probability Theory and Mathematical Statistics (Kaciveli, 1968)] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 326 *pp.* (Editors) 42 #6889

Mathematical tables

(See Sheppard, W. F., 37 #7065)

Mathematical theory of control

* Mathematical theory of control. Proceedings of a Conference held at the University of Southern California, Los Angeles, January 30-February 1, 1967. Edited by A. V. Balakrishnan and Lucien W. Neustadt. *Academic Press, New York-London,* 1967. xv + 459 *pp.* (Editors) 40 #5279

Mathematical theory of elementary particles

* Mathematical theory of elementary particles. Proceedings of the Conference on the Mathematical Theory of Elementary Particles, held at Endicott House, in Dedham, Mass., September 12-15, 1965. Edited by Roe Goodman and Irving Segal. *The M.I.T. Press, Cambridge, Mass.-London,* 1966. vii + 188 *pp.* (Editors) 34 #7134

Mathematical theory of logical inference

* Математическая теория логического вывода. (Russian) [Mathematical theory of logical inference] Collection of translations edited by A. V. Idel'son and G. E. Minc. *Izdat. "Nauka", Moscow,* 1967. 351 *pp.* (Editors) 36 #4957

Mathematical thinking in behavioral sciences

* Mathematical thinking in behavioral sciences. With introductions by David M. Messick. Readings from Scientific American. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1968. iv + 231 *pp.* (Editors) 38 #3104

Mathematical topics in population genetics

* Mathematical topics in population genetics. Edited by Ken-ichi Kojima. Biomathematics, Vol. 1. *Springer-Verlag, New York-Berlin,* 1970. viii + 400 *pp.* (E. Seneta) 43 #5932

Mathematical treatise of Chang Ch'iu-chien

The mathematical treatise of Chang Ch'iu-chien. (Russian) Translated from the Chinese by È. I. Berezkina. *Phys. Math. Sci. in the East, No. 2 (Russian), pp.* 28-60. *Izdat. "Nauka", Moscow,* 1969. (I. N. Veselovskiĭ) 41 #8b

Mathematical treatise of five registers

(See Berezkina, È. I., 40 #5388a and 40 #5388c)

The mathematical treatise of five registers. (Russian) Translated from Literary Chinese by È. I. Berezkina. *Phys. Math. Sci. in the East, No. 2 (Russian), pp.* 85-93. *Izdat. "Nauka", Moscow,* 1969. (I. N. Veselovskiĭ) 40 #5388b

Mathematical works of Gheorghe Lazăr

* Scrierile matematice ale lui Gheorghe Lazăr. (Romanian) [Mathematical writings of Gheorghe Lazăr] Transcribed from the Cyrillic manuscripts of Gheorghe Lazăr and annotated by Axente Creangă. With a preface by G. Vrănceanu. *Editura Academiei Republicii Socialiste Romania, Bucharest,* 1968. 157 *pp.* (H. W. Guggenheimer) 40 #13

}

Mathematica Seminosa

* Mathematica Seminosa. I. Séminaire Choquet: 4^e année, 1964/65. Initiation à l'Analyse. *Secrétariat mathématique, Paris,* 1965. iii + 221 *pp. (not consecutively paged)* (Editors) 33 #7219

* Mathematica seminosa. Vol. 3: Séminaire Bourbaki, 3^e et 4^e années, 1950-1952. Textes des conférences (corrigés en 1959), exposés 33 à 67. *Secrétariat mathématique, Paris,* 1965. iv + 308 *pp. (not consecutively paged)* (Editors) 34 #2388

* Mathematica seminosa. Vol. 4: Séminaire Bourbaki, 5^e et 6^e années, 1952-1954. Textes des conférences (corrigés en 1959), exposés 68 à 100. *Secrétariat Mathématique, Paris,* 1965. iv + 256 *pp. (not consecutively paged)* (Editors) 34 #2389

Mathematicians who perished in the great patriotic war of the Soviet Union

To the memory of the mathematicians who perished in the great patriotic war of the Soviet Union. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 3 (153), 235-256. (Editors) 42 #7474

Mathematics: Its content, methods and meaning

* Mathematics: Its content, methods and meaning. Part One: A general view of mathematics. Analysis. Edited by A. D. Aleskandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monographs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1962. vi + 189 *pp.* (J. R. Isbell) 30 #1904

* Mathematics: Its content, methods and meaning. Part Two: Analytic geometry. Algebra (theory of the algebraic equation). Ordinary differential equations. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monographs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1963. iv + 183 *pp.* (J. R. Isbell) 30 #1905

* Mathematics: Its content, methods and meaning. Part Three: Partial differential equations. Curves and surfaces. Calculus of variations. Functions of a complex variable. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monographs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1963. iv + 203 *pp.* (J. R. Isbell) 30 #1906

* Mathematics: Its content, methods and meaning. Part Four: Prime numbers. Theory of probability. Approximation of functions. Approximation methods and techniques. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monographs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1963. iv + 193 *pp.* (J. R. Isbell) 30 #1907

* Mathematics: Its content, methods and meaning. Part Five: Theory of functions of a real variable. Linear algebra. Abstract spaces. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monogrpahs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1963. iii + 197 *pp.* (J. R. Isbell) 30 #1908

* Mathematics: Its content, methods and meaning. Part Six: Topology. Functional analysis. Groups and other algebraic systems. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translations of Mathematical Monographs, Vol. 1. *American Mathematical Society, Providence, R. I.,* 1963. iv + 165 *pp.* (J. R. Isbell) 30 #1909

* Mathematics: Its content, methods and meaning. Vol. I. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translated by S. H. Gould and T. Bartha. *The M.I.T. Press, Cambridge, Mass.,* 1963. xi + 359 *pp.* (Editors) 30 #1910a

* Mathematics: Its content, methods and meaning. Vol. II. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translated by S. H. Gould. *The M.I.T. Press, Cambridge, Mass.,* 1963. xi + 377 *pp.* (Editors) 30 #1910b

* Mathematics: Its content, methods and meaning. Vol. III. Edited by A. D. Aleksandrov, A. N. Kolmogorov and M. A. Lavrent'ev. Translated by K. Hirsch. *The M.I.T. Press, Cambridge, Mass.,* 1963. xi + 356 *pp.* (Editors) 30 #1910c

* Mathematics: Its content, methods, and meaning. Vol. I. Edited by A. D. Aleksandrov, A. N. Kolmogorov, M. A. Lavrent'ev. Translated from the Russian by S. H. Gould and T. Bartha. Second paperback edition. *The M.I.T. Press, Cambridge, Mass.,* 1969. xii + 382 *pp.* (Editors) 39 #1258a

* Mathematics: Its content, methods, and meaning. Vol. II. Edited by A. D. Aleksandrov, A. N. Kolmogorov, M. A. Lavrent'ev. Translated from the Russian by S. H. Gould. Second, paperback edition. *The M.I.T. Press, Cambridge, Mass.,* 1969. xii + 401 *pp.* (Editors) 39 #1258b

* Mathematics: Its content, methods, and meaning. Vol. III. Edited by A. D. Aleksandrov, A. N. Kolmogorov, M. A. Lavrent'ev. Translated from the Russian by K. Hirsch. Second, paperback edition. *The M.I.T. Press, Cambridge, Mass.,* 1969. xii + 378 *pp.* (Editors) 39 #1258c

Mathematics applied to physics

* Mathematics applied to physics. Edited by É. Roubine. *Springer-Verlag New York Inc., New York; UNESCO, Paris,* 1970. xvii + 610 *pp.* (Editors) 41 #3206

Mathematics Colloquium

* Mathematics Colloquium, University of Cape Town, Vol. III: Abstracts of talks delivered during 1966-1967. *Department of Mathematics, University of Cape Town, Cape Town,* 1968. iv + 133 *pp.* (Table of contents) 43 #3060

* Mathematics Colloquium, Univeristy of Cape Town, Vol. IV: Abstracts of talks delivered during 1968. *Department of Mathematics, University of Cape Town, Cape Town,* 1969. iii + 97 *pp.* (Table of contents) 43 #3061

* Mathematics Colloquium and 1969 Symposium on Topology, University of Cape Town, Vol. V: Abstracts of talks delivered during 1969. _Department of Mathematics, University of Cape Town, Cape Town,_ 1970. iv + 77 _pp._ (Table of contents) 43 #3062

Mathematics of computation

* Вычислительная математика (Семинар, Киев, 1966 г.). Вып. 1. (Russian) [Mathematics of computation (Seminar, Kiev, 1966). No. 1] _"Naukova Dumka", Kiev,_ 1966. 93 _pp._ (Editors) 39 #7791

Mathematics of the decision sciences

* Mathematics of the decision sciences, Parts 1, 2. Edited by George B. Dantzig and Arthur F. Veinott, Jr. Lectures in Applied Mathematics, Vols. 11, 12. _American Mathematical Society, Providence, R. I.,_ 1968. _Part_ 1: ix + 429 _pp.; Part_ 2: vii + 443 _pp._ (Editors) 38 #958

Mathematics in economic studies

Применение математики в экономических исследованиях. Том 3. (Russian) [Application of mathematics in economic studies. Vol. 3] Edited by V. S. Nemčinov. _Izdat. Soc.-Èkonom. Lit. "Mysl'", Moscow,_ 1965. 495 _pp. (3 foldouts)_ (Editors) 34 #3988

Mathematics (geometry and graph theory)

* Matematika (geometrie a teorie grafů). (Czech) [Mathematics (geometry and graph theory)] Sborník pedagogické Fakulty Universita Karlova, Prague, 1970. 136 _pp._ (Editors) 43 #3063

Mathematics in the modern world

* Математика в современном мире. (Russian) [Mathematics in the modern world] Translated from the English by N. G. Ryčkova. Introduction by V. A. Uspenskiĭ. _Izdat. "Mir", Moscow,_ 1967. 205 _pp._ (Editors) 38 #976

* Mathematics in the modern world. Readings from Scientific American. With introductions by Morris Kline. _W. H. Freeman and Co., San Francisco, Calif.-London,_ 1968. vi + 409 _pp._ (Editors) 38 #1969

Mathematics: Periodical collection of translations of foreign articles

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 1] _Izdat. "Mir", Moscow,_ 1968. 160 _pp._ (Editors) 40 #1234

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 2] _Izdat. "Mir", Moscow,_ 1968. 143 _pp._ (Editors) 40 #2477

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 3] _Izdat. "Mir", Moscow,_ 1968. 184 _pp._ (Editors) 40 #2478

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 4. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 4] _Izdat. "Mir", Moscow,_ 1968. 136 . (Editors) 40 #2479

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 5. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 5] _Izdat. "Mir", Moscow,_ 1968. 150 _pp._ (Editors) 40 #4040

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 6] _Izdat. "Mir", Moscow,_ 1968. 160 _pp._ (Editors) 40 #4041

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 1] _Izdat. "Mir", Moscow,_ 1969. 144 _pp._ (Editors) 40 #4042

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 2] _Izdat. "Mir", Moscow,_ 1969. 174 _pp._ (Editors) 40 #4043

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 3] _Izdat. "Mir", Moscow,_ 1969. 156 _pp._ (Editors) 40 #2480

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 4. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 4] _Izdat. "Mir", Moscow,_ 1969. 143 _pp._ (Editors) 40 #2481

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 5. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 5] _Izdat. "Mir", Moscow,_ 1969. 151 _pp._ (Editors) 40 #2482

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 6] _Izdat. "Mir", Moscow,_ 1969. 174 _pp._ (Editors) 40 #7057

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 1] _Izdat. "Mir", Moscow,_ 1970. 175 _pp._ (Editors) 40 #7058

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 2] _Izdat. "Mir", Moscow,_ 1970. 159 _pp._ (Editors) 41 #3204

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 3] _Izdat. "Mir", Moscow,_ 1970. 128 _pp._ (Editors) 41 #3205

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 6] _Izdat. "Mir", Moscow,_ 1970. 176 _pp._ (Editors) 44 #3817

* Математика: Периодический сборник переводов иностранных статей. Том 15, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 15, No. 2] _Izdat. "Mir", Moscow,_ 1971. 165 _pp._ (Editors) 43 #7277

Mathematics for physicists and engineers

* Report of the O.E.E.C. seminar on "The Mathematical Knowledge Required by the Physicist and Engineer" (Project STP 17), Château de la Muette, Paris, 1961. _Organisation for Economic Co-operation and Development, Paris,_ 1961. 223 _pp._ 29 #5703

Mathematics Research Center

* Perturbation theory and its application in quantum mechanics. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, and the Theoretical Chemistry Institute at the University of Wisconsin, Madison, Wis., October 4-6, 1965. Edited by Calvin H. Wilcox. _John Wiley & Sons, Inc., New York-London-Sydney,_ 1966. x + 428 _pp._ (Editors) 34 #1130

Mathematics in the St. Petersburg-Leningrad University

* Математика в Петербургском-Ленинградском университете. (Russian) [Mathematics in the St. Petersburg-Leningrad University] Edited by V. I. Smirnov. _Izdat. Leningrad. Univ., Leningrad,_ 1970. 288 _pp. (errata insert)_ (Editors) 43 #17

Mathematics in the USSR

* Математика в СССР 1958-1967 в двух томах. Том второй: Биобиблиография. Вып 1: А-Л. (Russian) [Mathematics in the USSR 1958-1967 in two volumes. Vol. II: Biobibliography. No. 1: A-L] Edited under the auspices of the Moscow Mathematical Society by S. V. Fomin and G. E. Šilov. _Izdat. "Nauka", Moscow,_ 1969. 816 _pp._ (From the editors' introduction) 40 #4048

Mathematik und Technik

* Mathematik und Technik. Vorträge, gehalten auf der Konferenz der Forschungsgemeinschaft der Deutschen Akademie der Wissenschaften zu Berlin am 8. und 9. 12. 1961 in Berlin-Adlershof. _Akademie-Verlag, Berlin,_ 1962. 160 _pp._ 30 #3746

Mathematische Formelsammlung

(See Vogel, Alfred, 29 #2436)

Mathematische Hilfsmittel des Ingenieurs

(See Doetsch, G.; Schäfke, F. W.; Tietz, Horst, 36 #4851; Andelić, T. P.; Aumann, G.; Bauer, F. L.; Bulirsch, R.; Künzi, H. P.. Rutishauser, H.; Samelson, K.; Sauer, R.; Stoer, J., 37 #7115; Collatz, L.; Nicolovius, R.; Törnig, W., 40 #8315; and Hahn, W.; Mammitzsch, V.; Morgenstern, D.; Pöschl, K.; Zander, W., 42 #5480)

Mathematische Methoden für Digitalrechner

* Mathematische Methoden für Digitalrechner. Edited by Anthony Ralston and Herbert S. Wilf. Übersetzt aus dem Englischen von B. Thüring. _R. Oldenbourg Verlag, Munich-Vienna,_ 1967. 522 _pp._ (Editors) 40 #8314

* Mathematische Methoden für Digitalrechner. II. Edited by Anthony Ralston and Herbert S. Wilf. Übersetzt aus dem Englischen von R. Herschel, G. Kirschmer und R. Unbehauen. _R. Oldenbourg Verlag, Munich-Vienna,_ 1969. 450 _pp._ (Editors) 40 #8213

Mathematische Methoden der Himmelsmechanik und Astronautik

* Mathematische Methoden der Himmelsmechanik und Astronautik. Bericht Tagung Math. Forschungsinstituts Oberwolfach, 15.-21. März 1964. Herausgegeben von Eduard Stiefel. Berichte aus dem Mathematischen Forschungsinstitut, Oberwolfach, Heft 1. _Bibliographisches Institut, Mannheim,_ 1966. 350 _pp._ (Table of contents) 34 #3979

Mathematische Olympiadeaufgaben aus der UdSSR mit ausführlichen Lösungen

* Mathematische Olympiadeaufgaben aus der UdSSR mit ausführlichen Lösungen. Bearbeitet von Arthur Engel. _Ernst Klett Verlag, Stuttgart,_ 1965. 155 _pp._ (C. Brumfiel) 32 #3979

Mathematische und physikalisch-technische Probleme der Kybernetik

* Mathematische und physikalisch-technische Probleme der Kybernetik. Vorträge, gehalten auf der Konferenz der Forschungsgemeinschaft der Deutschen Akademie der Wissenschaften zu Berlin vom 20. bis 23. März 1962 in Berlin-Adlershof. Deutsche Akademie der Wissenschaften zu Berlin, Reihe A: Tagungen, Band V. Über Wissenschaftliche Grundlagen der Modernen Technik. _Akademie-Verlag, Berlin,_ 1963. 557 _pp. (2 inserts + 2 plates)_ (Editors) 29 #3267

Mathematische Probleme der Ökonomie und Rechentechnik

* X. Internationales Wissenschaftliches Kolloquium, Heft 11: Mathematische Probleme der Ökonomie und Rechentechnik. Held at the Technische Hochschule Ilmenau, September 27 to October 1, 1965. _Technische Hochschule Ilmenau, Ilmenau,_ 1966. 61 _pp._ (Editors) 35 #5269

Mathematisches Forschungsinstitut Oberwolfach

* Algebraische Zahlentheorie. Bericht einer Tagung des Mathematischen Forschungsinstitut Oberwolfach, 6.-12. September 1964. Herausgegeben von Helmut Hasse und Peter Roquette. Berichte aus dem Mathematischen Forschungsinstitut Oberwolfach, Heft 2. *Bibliographisches Institut Mannheim, Mannheim,* 1966. 272 *pp.* (Editors) 36 #99

Mathematisches Wörterbuch

* Mathematisches Wörterbuch. Mit Einbeziehung der theoretischen Physik. Band I: A-K. Band II: L-Z. Bearbeitet und herausgegeben unter Mitwirkung zahlreicher Fachgelehrter von Joseph Naas und Hermann Ludwig Schmid. *Akademie-Verlag, Berlin; B. G. Teubner Verlagsgesellschaft, Stuttgart* 1961. *Band I:* xii + 1043 *pp.; Band II:* viii + 952 *pp.* (Editors) 29 #4658

Matrix methods of structural analysis

* Matrix methods of structural analysis. Published for and on behalf of Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization. Edtied by B. Fraeijs de Veubeke. A Pergamon Press Book. *The Macmillan Co., New York,* 1964. v + 343 *pp.* (P. P. Teodorescu) 29 #785

Mécanique de la Turbulence

* Mécanique de la turbulence. Marseille, 28 août - 2 septembre, 1961. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 108. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. 470 *pp.* (Editors) 29 #6743

Mechanical foundations of elasticity and fluid dynamics

(See Truesdell, C., 33 #1187a)

Mechanical processes in a mountain massif

* Механические процессы в горном массиве. (Russian) [Mechanical processes in a mountain massif] Academy of Sciences of the Kazah. SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1969. 85 *pp.* (Editors) 43 #4318

Mechanics. See Congress on Theoretical and Applied Mechanics.

Mechanics

* Simposio di meccanica e matematica applicata. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 8 (1963/64). *Seminario Matematico dell'Università, Messina,* 1964. i + 188 *pp.* (Editors) 39 #6703c

Mechanics of continuous media

* Численные методы решения задач механики сплошных сред. (Russian) [Numerical methods of solution of problems in the mechanics of continuous media] Lectures presented at the Summer School on Numerical Methods, Kiev, June 15-July 7, 1966. Edited by O. M. Belocerkovskiĭ. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. 230 *pp.* (Editors) 42 #4085

Mechanics of fluids and gases

* Колебания. Гироскопия. Теория механисмов. Механика жидкости и газа. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. II. (Russian) [Vibrations. Gyroscopics. Theory of mechanisms. Mechanics of fluids and gases. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports, Vol. II] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur'e, G. K. Mihaĭlov and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 306 *pp. (errata insert)* (Editors) 34 #2b

Mechanics: Periodical collection of translations of foreign articles

* Механика: Периодический сборник переводов иностранных статей. Том 21, Вып. 3 (121). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 3 (121)] *Izdat. "Mir", Moscow,* 1970. 149 *pp.* (Editors) 41 #5139

* Механика: Периодический сборник переводов иностранных статей. Том 21, Вып. 5 (123). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 5 (123)] *Izdat. "Mir", Moscow,* 1970. 150 *pp.* (Editors) 42 #2902

* Механика: Периодический сборник переводов иностранных статей. Том 21, Вып. 6 (124). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 6 (124)] *Izdat. "Mir", Moscow,* 1970. 136 *pp.* (Editors) 43 #6

* Механика: Периодический сборник переводов иностранных статей. Том 22, Вып. 1 (125). (Russian) [Mechanics: Periodical collectionof translations of foreign articles. Vol. 22, No. 1 (125)] *Izdat. "Mir", Moscow,* 1971. 152 *pp.* (Editors) 43 #1785

* Механика: Периодический сборник переводов иностранных статей. Том 22, Вып. 2 (126). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 22, No. 2 (126)] *Izdat. "Mir", Moscow,* 1971. 157 *pp.* (Editors) 43 #1784

Mechanics of rock strata

* Исследования по механике горных пород. (Russian) [Studies in the mechanics of rock strata] Academy of Science of the Kazakh SSR. *Izdat. Akad. Nauk Kazan. SSR, Alma-Ata,* 1965. 145 *pp.* (Editors) 34 #3985

* Вопросы механики горных пород. (Russian) [Problems in the mechanics of rock strata] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. 112 *pp.* (Editors) 35 #7680

Mechanics in sixteenth-century Italy

* Mechanics in sixteenth-century Italy. Selections from Tartaglia, Benedetti, Guido Ubaldo, and Galileo. Translated and annotated by Stillman Drake and I. E. Drabkin. *The University of Wisconsin Press, Madison, Wis.-London,* 1969. xii + 428 *pp.* (J. B. Hofmann) 38 #5558

Mechanics of a solid body

* Механика твердого тела. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. III. (Russian) [Mechanics of a solid body. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey reports. Vol. III] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. S. Vol'mir and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 412 *pp.* (Editors) 34 #2c

Mechanics in the USSR in the last 50 years in four volumes

* Механика в СССР за 50 лет в четырех томах. Том I. Общая и прикладная механика. (Russian) [Mechanics in the USSR in the last 50 years in four volumes. Vol. I: General and applied mechanics] Edited by L. I. Sedov, Ja. B. Zel'dovič, A. Ju. Išlinskiĭ, M. A. Lavrent'ev, G. K. Mihaĭlov, N. I. Mushelišvili and G. G. Černyĭ. *Izdat. "Nauka", Moscow,* 1968. 416 *pp.* (Editors) 39 #2371

Medial axis transformation

* Study of the mathematical foundations of the medial axis transformation. Containing an article by L. Calabi: A study of the skeletal graph. AFCRL-68-0498. *Air Force Cambridge Research Laboratories, Office of Aerospace Research, United States Air Force, Bedford, Mass.; Parke Mathematical Laboratories, Inc., Carlisle, Mass.,* 1968. iv + 42 *pp.* 41 #1442

Medieval mathematics

A collection of the rules of the science of astronomy. (Russian) Translated from the Arabic by N. G. Haĭretdinova. *Phys. Math. Sci. in the East, No. 2 (Russian), pp.* 147-182. *Izdat. "Nauka", Moscow,* 1969. (B. Rozenfel'd) 40 #4059

(See also Haĭretdinova, N. G., 40 #4060)

Mélanges d'algèbre pure et appliquée

* Mélanges d'algèbre pure et appliquée. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1969-1970, Publication No. 83. *Université de Montpellier, Montpellier,* 1970. 65 *pp.* (Editors) 42 #6

Memoirs of the American Mathematical Society

* Memoirs of the American Mathematical Society, No. 81. *American Mathematical Society, Providence, R. I.,* 1968. 87 *pp. (not consecutively paged)* (Editors) 37 #2559

(See also Ginsburg, Seymour; Greibach, Sheila; Hopcroft, John, 40 #8534)

Memorial Colloquium: E. W. Beth

* E. W. Beth Memorial Colloquium. Logic and foundations of science (Paris, Institut Henri Poincaré, 19-21 May 1964). Edited by Jean-Louis Destouches. *D. Reidel Publishing Co., Dordrecht; The Humanities Press, New York,* 1968. viii + 137 *pp. (1 plate)* (Editors) 39 #30

Method of statistical testing

* Method of statistical testing. Monte Carlo method. Edited by Ju. A. Šreĭder. Translated by Scripta Technica Inc. *Elsevier Publishing Co., Amsterdam-London-New York,* 1964. ix + 303 *pp.* (Editors) 31 #6348

Methoden der Logik und Mathematik

* Enzyklopädie der geisteswissenschaftlichen Arbeitsmethoden. 3. Lieferung: Methoden der Logik und Mathematik. Statistische Methoden. Dargestellt von Hans Hermes und Erich Mittenecker. *R. Oldenbourg Verlag, Munich-Vienna,* 1968. ii + 141 *pp.* (Editors) 38 #961

Methoden und Verfahren der mathematischen Physik

* Methoden und Verfahren der mathematischen Physik. Band 1 (Oktober 1969). Bericht über eine Tagung vom 13. bis 19. April 1969 in Oberwolfach. Herausgegeben von Bruno Brosowski und Erich Martensen. B. I-Hochschulskripten, 720/720a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. v + 183 *pp.* (Editors) 41 #6432a

* Methoden und Verfahren der mathematischen Physik. Band 2 (November 1969). Bericht über eine Tagung vom 13. bis 19. April in Oberwolfach. Herausgegeben von Bruno Brosowski und Erich Martensen. B. I-Hochschulskripten, 721/721a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1969. vi + 179 *pp.* (Editors) 41 #6432b

* Methoden und Verfahren der mathematischen Physik. Band 3 (Oktober 1970). Herausgegeben von Bruno Brosowski und Erich Martensen. B. I-Hochschulskripten, 722/722a*. *Bibliographisches Institut, Mannheim-Vienna-Zürich,* 1970. iv + 176 *pp.* (Editors) 42 #7111
(See also Jeggle, H., 42 #5745)

Methodology
* Logic, methodology and philosophy of science. Proceedings of the 1960 International Congress. Edited by Ernest Nagel, Patrick Suppes and Alfred Tarski. *Stanford University Press, Stanford, Calif.,* 1962. ix + 661 *pp.* (Editors) 29 #3347

Methods in computational physics
* Methods in computational physics. Advances in research and applications. Vol. 2: Quantum mechanics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1963. xi + 271 *pp.* (P. J. Davis) 29 #4418
* Methods in computational physics. Advances in research and applications. Vol. 3: Fundamental methods in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1964. xii + 386 *pp.* (Editors) 34 #8706
* Methods in computational physics. Advances in research and applications. Vol. 4: Applications in hydrodynamics. Edited by Berni Alder, Sidney Fernbach and Manuel Rotenberg. *Academic Press, New York-London,* 1965. xi + 385 *pp.* (Editors) 34 #8707

Methods of mathematical simulation and the theory of electrical circuits
* Методы математического моделирования и теория электрических цепей (Труды семинара, Киев, 1968 г.). Вып. 3. (Russian) [Methods of mathematical simulation and the theory of electrical circuits (Proceedings of a Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 92 *pp.* (Editors) 39 #6663

Methods of operations research
* Methods of operations research. III. Edited by Rudolf Henn. *Verlag Anton Hain, Meisenheim am Glan,* 1967. vii + 434 *pp. (1 plate)* (Editors) 36 #7398

Methods and problems of theoretical physics
* Methods and problems of theoretical physics. In honour of R. E. Peierls. Conference held at the University of Birmingham, Birmingham, June, 1967. Edited by J. E. Bowcock. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Inc., New York,* 1970. viii + 440 *pp. (1 plate)* (Editors) 43 #4359

Metric questions of the theory of functions and mappings
* Метрические вопросы теории функций и отображений. Вып. 1 (Доклады коллоквиума по теории квазиконформных отображений и ее обобщениям, Донецк, сентябрь 1968 г.). (Russian) [Metrical questions of the theory of functions and mappings. No. 1 (Proceedings of the Colloquium on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk, September, 1968)] Academy of Sciences of the Ukrainian SSR. Donetsk Computing Center. *Izdat. "Naukova Dumka", Kiev,* 1969. 242 *pp.* (Editors) 43 #517

Midwestern Conf. on Ergodic Theory
* Contributions to ergodic theory and probability. Proceedings of the First Midwestern Conference on Ergodic Theory, held at the Ohio State University, March 27-30, 1970. Organized by Louis Sucheston. Lecture Notes in Mathematics, Vol. 160. *Springer-Verlag, Berlin-New York,* 1970. vii + 278 *pp.* (Editors) 42 #3256

Minneapolis Conf. Complex Analysis
* Proceedings of the Conference on Complex Analysis. Minneapolis, Minn., 1964. Edited by A. Aeppli, E. Calabi, H. Röhrl. *Springer-Verlag, Berlin-Heidelberg-New York,* 1965. vii + 308 *pp.* (Editors) 30 #4969

Modal logic
* Логическая семантика и модальная логика. (Russian) [Logical semantics and modal logic] Academy of Sciences of the USSR. Institute of Philosophy. *Izdat. "Nauka", Moscow,* 1967. 278 *pp. (errata insert)* (Editors) 36 #1286

Models
* Economic models, estimation and risk programming: Essays in honor of Gerhard Tintner. Edited by K. A. Fox, J. K. Sengupta and G. V. L. Narasimham. Lecture Notes in Operations Research and Mathematical Economics, No. 15. *Springer-Verlag, Berlin-New York,* 1969. viii + 461 *pp.* (Editors) 40 #2336
* Экономико-математические модели. (Russian) [Economic-mathematical models] Supplement to Èkonom. i Mat. Metody. Collection No. 2 (1969). *Izdat. "Nauka", Moscow,* 1969. 160 *pp.* (Editors) 43 #5893

Modern computing methods
* Nowoczesne metody numeryczne. (Polish) [Modern computing methods] Compiled by the National Physical Laboratory, Teddington, Middlesex. Translated from the English by Jerzy Szczepkowicz. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1965. 264 *pp.* (Editors) 33 #508

Modern control systems theory
* Современная теория систем управления. (Russian) [Modern control systems theory] Edited by C. T. Leondes. Translated from the English by Ja. A. Kogan, Ju. È. Sagalov and I. V. Time. Translation edited by Ja. Z. Cypkin. *Izdat. "Nauka", Moscow,* 1970. 511 *pp.* (Editors) 42 #5661

Modern matematik konferansi
* Modern matematik konferansi. (Turkish) [Modern mathematics conference] Edited by Okan Gürel. Turkish Science and Technical Research Association. Publications of the Scientific Education Group, No. I. *Ankara Üniv. Basimevi, Ankara,* 1968. vii + 68 *pp. (loose errata)* 37 #5068

Modern numerical methods
* Современные численные методы. Вып. 1. Вычислительные методы линейной алгебры. (Russian) [Modern numerical methods. No. 1. Computational methods of linear algebra] Proceedings of the International Summer School on Numerical Methods, Kiev, 1966. Edited by A. A. Abramov. The Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1968. 102 *pp.* (Editors) 39 #5050

Modern problems of the theory of functions
(See Andreian Cazacu, Cabiria; Constantinescu, C.; Jurchescu, M., 34 #4)

Monotone mappings
* The Proceedings of the First Conference on Monotone Mappings and Open Mappings (State University of New York at Binghamton, October 8-11, 1970). Edited by Louis F. McAuley. Dedicated to the memory of Gordon Thomas Whyburn. *State University of New York at Binghamton, Binghamton, N. Y.,* 1971. xxii + 422 *pp.* (Editors) 43 #1146

Monotone operators
* Theory and applications of monotone operators. Edited by Aldo Ghizzetti. Proceeding of a NATO Advanced Study Institute held in Venice, Italy, June 17-30, 1968. *Edizioni "Oderisi", Gubbio,* 1969. vi + 343 *pp.* (Editors) 41 #5987

Montpellier
(See Charles, B., 34 #222)

Moscow Mathematical Society
* Transactions of the Moscow Mathematical Society for the year 1963 (Vol. 12). 1963 volume of the translation prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1965. iv + 524 *pp.* (Editors) 30 #3821
* Transactions of the Moscow Mathematical Society for the year 1965 (Vol. 13). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1967. iii + 384 *pp.* (Editors) 36 #1262; erratum, 40, p. 1704
* Transactions of the Moscow Mathematical Society for the year 1965 (Vol. 14). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1967. iii + 368 *pp.* (Editors) 36 #1263; erratum, 40, p. 1704
* Transactions of the Moscow Mathematical Society for the year 1966 (Vol. 15). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1967. iv + 508 *pp.* (Editors) 36 #6248
* Transactions of the Moscow Mathematical Society for the year 1967 (Vol. 16). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1968. iv + 373 *pp.* (Editors) 39 #5
* Transactions of the Moscow Mathematical Society for the year 1967 (Vol. 17). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1969. iv + 386 *pp.* (Editors) 39 #1260
* Transactions of the Moscow Mathematical Society for the year 1968 (Vol. 18). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1969. iv + 291 *pp.* (Editors) 40 #2486
* Transactions of the Moscow Mathematical Society for the year 1968 (Vol. 19). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1969. iii + 331 *pp.* (Editors) 40 #2487

Moscow school
(See Keldyš, M. V.; Sedov, L. I., 33 #3575)

Moskov. Univ. Učen. Zap.

* Систематический указатель к "Ученым запискам Московского университета" (1833-1961). (Russian) [Systematic index to "Učenye Zapiski Moskovskogo Universiteta" (1833-1961)] *Izdat. Moskov. Univ., Moscow,* 1969. 176 *pp. (errata insert)* (Editors) 41 #1467

Motions in spaces with affine connections

* Движения в пространствах аффинной связности. (Russian) [Motions in spaces with affine connections] V. G. Belinskiĭ Penza State Pedagogical Institute Scientific Notes. *Izdat. Kazan. Univ., Kazan,* 1965. 206 *pp.* (Editors) 33 #3228

Multiply connected and invariant systems

* Многосвязные и инвариантные системы. Нелинейные и дискретные системы. (Russian) [Multiply connected and invariant systems. Nonlinear and discrete systems] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow,* 1968. 559 *pp.* (Editors) 38 #3061

Multistage inventory models and techniques

* Multistage inventory models and techniques. Edited by Herbert E. Scarf, Dorothy M. Gilford, Maynard W. Shelly. *Stanford University Press, Stanford, Calif.,* 1963. vii + 225 *pp.* (Editors) 32 #3866

Multivariate analysis

* Multivariate analysis. Proceedings of an International Symposium held in Dayton, Ohio, June 14-19, 1965. Edited by Paruchuri R. Krishnaiah. *Academic Press, New York-London,* 1966. xix + 592 *pp. (1 plate)* (Editors) 34 #8513

* Multivariate analysis. II. Proceedings of the Second International Symposium on Multivariate Analysis held at Wright State Univeristy, Dayton, Ohio, June 17-22, 1968. Edited by Paruchuri R. Krishnaiah. *Academic Press, New York-London,* 1969. xx + 696 *pp.* (Editors) 40 #5069

National Physical Laboratory mathematical tables
(See Curtis, A. R., 29 #4916 and Clenshaw, C. W.; Picken, Susan M., 34 #2948)

NATO Advanced Study Institute
* Algebraic number theory. Proceedings of an instructional conference organized by the London Mathematical Society (a NATO Advanced Study Institute) with the support of the International Mathematical Union. Edited by J. W. S. Cassels and A. Fröhlich. *Academic Press, London; Thompson Book Co., Inc., Washington, D. C.*, 1967. xviii + 366 *pp.* (Editors) 35 #6500
* Graph theory and theoretical physics. Edited by Frank Harary. *Academic Press, London-New York*, 1967. xv + 358 *pp.* (Editors) 37 #6208
* Алгебраическая теория чисел. (Russian) [Algebraic number theory] Edited by J. W. S. Cassels and A. Fröhlich. Translated from the English by A. A. Bel'skiĭ, A. Ju. Geronimus, M. E. Novodvorskiĭ and V. M. Fišman. Edited by I. I. Pjateckiĭ-Šapiro. *Izdat. "Mir", Moscow*, 1969. 483 *pp.* (Editors) 41 #174

NATO Summer School on Nonlinear Programming
* Nonlinear programming. Edited by J. Abadie. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York*, 1967. xxii + 316 *pp.* (Editors) 35 #6454

Netherlands Universities Foundation for International Cooperation.
See NUFFIC Summer School.

Network planning and control
* И всесоюзная конференция по математическим вопросам сетевого планирования и управления (Киев, апрель 1966г.): Тезисы и доклады. (Russian) [First All-Union Conference on Mathematical Questions of Network Planning and Control (Kiev, April, 1966): Abstracts and reports] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev*, 1967. 249 *pp.* (Editors) 44 #6412

Neun Bücher arithmetischer Technik
* Neun Bücher arithmetischer Technik (Chiu-chang suan-shu). Ein chinesisches Rechenbuch für den praktischen Gebrauch aus der frühen Hanzeit (202 v. Chr. bis 9 n. Chr.). Übersetzt aus dem Chinesischen und erläutert von Kurt Vogel. Ostwalds Klassiker der exakten Wissenschaften, Neue Folge, Band 4. *Friedr. Vieweg & Sohn, Braunschweig*, 1968. 159 *pp.* (A. Kobori) 43 #4605

New books
New books. (Russian) *Differencial'nye Uravnenija* 1 (1965), 426-427; *ibid.* 2 (1966), 435. (Editors) 38 #2356a

New directions in mathematics
* New directions in mathematics. Dartmouth College Mathematics Conference arranged by John G. Kemeny and Robin Robinson. Edited by Robert W. Ritchie. *Prentice Hall, Inc., Englewood Cliffs, N. J.*, 1963. iv + 124 *pp.* (L. K. Durst) 32 #1087

Nicole Oresme and the medieval geometry of qualities and motions
* Nicole Oresme and the medieval geometry of qualities and motions. A treatise on the uniformity and difformity of intensities known as *Tractatus de configurationibus qualitatum et motuum.* Edited with an introduction, English translation, and commentary by Marshall Clagett. *The University of Wisconsin Press, Madison, Wis.-London*, 1968. xiii + 713 *pp.* (N. Swerdlow) 41 #3217

Nine books of mathematics
(See Berezkina, È. I., 40 #4053)

Nomographic collection
* Номографический сборник. Но. 6. (Russian) [Nomographic collection. No. 6] *Vyčisl. Centr Akad. Nauk SSSR, Moscow*, 1969. 225 *pp.* (Editors) 44 #1263
* Номографический сборник. Но. 7. (Russian) [Nomographic collection. No. 7] *Vyčisl. Centr Akad. Nauk SSSR, Moscow*, 1970. 144 *pp.* (Editors) 44 #1264

Non-equilibrium thermodynamics, variational techniques and stability
* Non-equilibrium thermodynamics, variational techniques and stability. Edited by Russell J. Donnelly, Robert Herman and Ilya Prigogine. Proceedings of a symposium held at the University of Chicago, May 17-19, 1965. *The University of Chicago Press, Chicago, Ill.-London*, 1966. ix + 313 *pp.* (Editors) 33 #938

Non-linear analysis
* Problems in non-linear analysis. Centro Internazionale Matematico Estivo (C.I.M.E.). IV Ciclo, Varenna, 20-29 agosto 1970. Coordinatore: G. Prodi. *Edizioni Cremonese, Rome*, 1971. ii + 574 *pp.* (Editors) 43 #7987

Non linear continuum theories
* Non linear continuum theories. Centro Internazionale Matematico Estovo (C.I.M.E.). I Ciclo, Bressanone, 31 maggio-9 giugno, 1965, diretto dai C. Truesdell e G. Grioli. *Edizioni Cremonese, Rome*, 1966. 358 *pp.* (Editors) 36 #7370

Nonlinear and discrete systems
* Многосвязные и инвариантные системы. Нелинейные и дискретные системы. (Russian) [Multiply connected and invariant systems. Nonlinear and discrete systems] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow*, 1968. 559 *pp.* (Editors) 38 #3061

Nonlinear eigenvalue problems
* Bifurcation theory and nonlinear eigenvalue problems. Edited by Joseph B. Keller and Stuart Antman. *W. A. Benjamin, Inc., New York-Amsterdam*, 1969. xiv + 434 *pp.* (Editors) 39 #2555

Nonlinear functional analysis
* Nonlinear functional analysis. Proceedings of Symposia in Pure Mathematics, Vol. XVIII, Part 1. Edited by Felix E. Browder. *American Mathematical Society, Providence, R. I.*, 1970. v + 296 *pp.* (Editors) 42 #1625

Nonlinear functional analysis and applications
* Nonlinear functional analysis and applications. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, the University of Wisconsin, Madison, October 12-14, 1970. Edited by Louis B. Rall. *Academic Press, New York-London*, 1971. vii + 586 *pp.* (Editors) 42 #7457

Nonlinear oscillations
* Пятая летняя математическая школа (г. Ужгород, июнь-июль 1967 год): Теория обыкновенных дифференциальных уравнений и нелинейных колебаний. (Russian) [Fifth Mathematical Summer School (Uzhgorod June-July, 1967): The theory of ordinary differential equations and nonlinear oscillations] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev*, 1968. 550 *pp.* (Editors) 41 #3849

Nonlinear partial differential equations
* Nonlinear partial differential equations: A symposium on methods of solution. Edited by W. F. Ames. *Academic Press, New York-London*, 1967. xv + 316 *pp.* (Editors) 36 #510

Nonlinear physics
* Topics in nonlinear physics. Proceedings of the Physics Session, International School of Nonlinear Mathematics and Physics. A NATO Advanced Study Institute, Max-Planck-Institute for Physics and Astrophysics (Munich, 1966). Edited by Norman J. Zabusky. *Springer-Verlag New York Inc., New York*, 1968. xxx + 724 *pp.* (Editors) 39 #1251

Nonlinear problems of engineering
* Nonlinear problems of engineering. Edited by William F. Ames. *Academic Press, New York-London*, 1964. xiv + 252 *pp.* (Editors) 31 #6399

Nonlinear programming
* Nonlinear programming. Edited by J. Abadie. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York*, 1967. xxii + 316 *pp.* (Editors) 35 #6454
* Nonlinear programming. Proceedings of a Symposium Conducted by the Mathematics Research Center, The University of Wisconsin, Madison, May 4-6, 1970. Edited by J. B. Rosen, O. L. Mangasarian and K. Ritter. Publication No. 25 of the Mathematics Research Center, The University of Wisconsin. *Academic Press, New York-London*, 1970. xii + 490 *pp.* (Editors) 42 #7288

Nonlinear stochastic control systems
* Nonlinear stochastic control systems. Edited by A. T. Fuller. *Taylor and Francis, Ltd., London; Barnes & Noble, Inc., New York*, 1970. vi + 456 *pp.* (Editors) 43 #5971

Nonlinear theory of plates and shells
* Нелинейная теория пластин и оболочек. (Russian) [Nonlinear theory of plates and shells] Edited by K. Z. Galimov. *Izdat. Kazan. Univ., Kazan'*, 1962. 175 *pp.* (Editors) 32 #1958

Non-linear transformations of stochastic processes
* Non-linear transformations of stochastic processes. Edited by P. I. Kuznecov, R. L. Stratonovič, V. I. Tihonov. Translation edited by J. Wise and D. C. Cooper. *Pergamon Press, Oxford-Edinburgh-New York*, 1965. xvi + 498 *pp.* (Editors) 32 #3120

Nonlinear vibration problems
* Nonlinear vibration problems. 5. Second Conference on Nonlinear Vibrations, Warsaw, September 18-21, 1962. Institute of Basic Technical Problems of Polish Academy of Sciences. Department of Vibrations. *Państwowe Wydawnictwo Naukowe, Warsaw*, 1964. 661 *pp.* (Editors) 32 #1944
* Nonlinear vibration problems. Vol. 6. Institute of Basic Technical Problems of the Polish Academy of Sciences. Department of Vibrations. *Panstwowe Wydawnictwo Naukowe, Warsaw*, 1966. 348 *pp.* (Editors) 35 #6399
* Nonlinear vibration problems. Vol. 7. Institute of Basic Technical Problems of Polish Academy of Sciences. *Panstwowe Wydawnictwo Naukowe, Warsaw*, 1966. 248 *pp.* (Editors) 38 #1342
* Nonlinear vibration problems. Vol. 8. Institute of Basic Technical Problems of the Polish Academy of Sciences. Department of Machine Theory. *Państwowe Wydawnictwo Naukowe, Warsaw*, 1967. 355 *pp.* (1 *plate;* 1 *foldout; loose errata*) (Editors) 37 #4341

Nonlinear vibrations

* Dritte Konverenz über Nichtlineare Schwingungen, Berlin 25.-30. Mai 1964. Teil I. Quantitative und qualitative Verfahren in der Theorie der nichtlinearen Schwingungen. Herausgegeben von K. Schröder und R. Reissig. Bearbeitet von G. Maess, W. Müller, H. Rothkirch. *Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech.* 1965, *no.* 1. *Akademie-Verlag, Berlin,* 1965. x + 384 *pp.* (Editors) 33 #905

* Dritte Konferenz über Nichtlineare Schwingungen, Berlin vom 25. bis 30. Mai 1964. Teil II. Technische Schwingungsprobleme und Fragen der Regelung und Steuerung. Herausgegeben von K. Schröder und R. Reissig. Bearbeitet von G. Maess, W. Müller, H. Rothkirch. Abh. Deutsch. Akad. Wiss. Berlin Kl. Math. Phys. Tech. 1965, no. 2. *Akademie-Verlag, Berlin,* 1966. xi + 464 *pp. (13 plates)* (Editors) 35 #1239

* Пятая международная конференция по нелинейным колебаниям (Киев, 25 августа-5 сентября 1969 г.). Тезисы докладов. (Russian) [Fifth International Conference on Nonlinear Vibrations (Kiev, August 25-September 1, 1969). Abstracts of papers] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 252 *pp.* (Editors) 40 #5376

Nonparametric techniques in statistical inference

* Nonparametric techniques in statistical inference. Proceedings of the First International Symposium on Nonparametric Techniques held at Indiana University, June, 1969. Edited by Madan Lal Puri. *Cambridge University Press, London-New York,* 1970. xiv + 623 *pp.* (Editors) 42 #8632

Note de l'éditeur

Note de l'éditeur. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 16 (1968), iv. (Editors) 38 #1209; erratum, 42, p. 1823

Nuclear physics

* Материамы совещания по математическим методам решения задач ядерной физики (Дубна, 17-20 ноября 1964 г.) (Russian) [Proceedings of the conference on mathematical methods of solution of problems in nuclear physics (Dubna, November 17-20, 1964)] Joint Institute for Nuclear Studies, Report No. 2005. *Ob"edin. Inst. Jadernyh Issled., Dubna,* 1965. 118 *pp.* (Editors) 34 #2264

* Progress in nuclear physics, Vol. 10. Edited by D. M. Brink and J. H. Mulvey. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1969. vii + 390 *pp.* (Editors) 41 #7986

NUFFIC International Summer Session in Science

* Asymptotic distribution modulo 1. Papers presented at the NUFFIC International Summer Session in Science, sponsored by NATO, held in Breukelen, August 1-11, 1962. Edited by J. F. Koskma and L. Kuipers. *P. Noordhoff N. V., Groningen,* 1965. iv + 203 *pp.* (Editors) 31 #113

NUFFIC Summer School

* Proceedings of a Conference on Local Fields. NUFFIC Summer School held at Driebergen (The Netherlands) in 1966. Edited by T. A. Springer. *Springer- Verlag, Berlin-New York,* 1967. v + 214 *pp.* (Editors) 37 #3885

Number theory

* Исследования по теории чисел. Вып. I. (Russian) [Studies in number theory. No. I] Collection of articles honoring Nikolaĭ Grigor'evič Čudakov's sixtieth birthday. *Izdat. Saratov. Univ., Saratov,* 1966. 72 *pp. (errata insert)* (Editors) 34 #122

* Séminaire Delange-Pisot. 4^e année (1962/63): Théorie des nombres. *Secrétariat mathématique, Paris,* 1967. iii + 142 *pp. (not consecutively paged)* (Editors) 35 #6502

* Séminaire Delange-Pisot. 5^e année (1963/64): Théorie des nombres. *Secrétariat mathématique, Paris,* 1967. ii + 133 *pp. (not consecutively paged).* (Editors) 35 #6503

* Séminaire Delange-Pisot. 6^e année (1964/65): Théorie des nombres. Fasc. 1: Exposés 1 à 9. *Secrétariat mathématique, Paris,* 1967. ii + 121 *pp. (not consecutively paged).* (Editors) 35 #6504

* Séminaire Delange-Pisot. 6^e année (1964/65): Théorie des nombres. Fasc. 2: Exposés 10 à 17. *Secrétariat mathématique, Paris,* 1967. ii + 91 *pp. (not consecutively paged).* (Editors) 35 #6505

* Séminaire Delange-Pisot-Poitou. 7^e année (1965/66): Théorie des nombres. Fasc. 1: Exposés 1 à 10. *Secrétariat mathématique, Paris,* 1967. iii + 99 *pp. (not consecutively paged).* (Editors) 35 #6506

* Séminaire Delange-Pisot-Poitou. 7^e année (1965/66): Théorie des nombres. Fasc. 2: Exposés 11 à 21. *Secrétariat mathématique, Paris,* 1967. iii + 113 *pp. (not consecutively paged).* (Editors) 35 #6507

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20^e année: 1966/67. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 10. *Secretariat mathematique, Paris,* 1968. iii + 150 *pp. (not consecutively paged)* (Editors) 37 #6139a

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20^e année: 1966/67. Algèbre et théorie des nombres. Fascicule 2: Exposés 11 à 21 et index cumulatif. *Secrétariat mathématique, Paris,* 1968. iii + 178 + iii *pp. (not consecutively paged)* (Editors) 37 #6139b

* Séminarie Delange-Pisot-Poitou. 8^e année: 1966/67. Théorie des nombres. Fascicule 1: Exposés 1 à 9. *Secretariat mathematique, Paris,* iii + 110 *pp. (not consecutively paged)* (Editors) 37 #6140a

* Séminaire Delange-Pisot-Poitou. 8^e année: 1966/67. Théorie des nombres. Fascicule 2: Exposés 10 à 21. *Secrétariat mathématique, Paris,* 1968. iii + 105 *pp. (not consecutively paged)* (Editors) 37 #6140b

* Studies in number theory. Edited by A. V. Malyshev. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad. Vol. 1. *Consultants Bureau, New York,* 1968. vi + 66 *pp.* (Editors) 38 #103

* Исследования по теории чисел, Вып. 2. (Russian) [Studies in number theory, No. 2] *Izdat. Saratov. Univ., Saratov,* 1968. 98 *pp.* (Editors) 38 #2074

* Studies in number theory. Edited by W. J. LeVeque. MAA Studies in Mathematics, Vol. 6. *The Mathematical Association of America, Buffalo, N. J. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1969. vii + 212 *pp.* (Editors) 39 #1388

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 21^e année: 1967/68. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 9; Fascicule 2: Exposés 10 à 20. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: ii + 134 *pp. Fasc.* 2: ii + 119 *pp. (not consecutively paged)* (Editors) 39 #5286

* Séminaire Delange-Pisot-Poitou. 9^e année: 1967/68. Théorie des nombres. Fascicule 1: Exposés 1 à 14; Fascicule 2: Exposés 15 à 23, et Groupe d'études. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: iii + 134 *pp. Fasc.* 2: iii + 139 *pp. (not consecutively paged)* (Editors) 39 #5453

* Number theory. Proceedings of Symposia in Pure Mathematics, Vol. XII. Edited by William J. LeVeque and Ernst G. Straus. *American Mathematical Society, Providence, R. I.,* 1969. v + 98 *pp. (loose errata)* (Editors) 40 #2592

* Séminaire Delange-Pisot-Poitou. 10^e année: 1968/69. Théorie des nombres. Fascicule 1: Exposés 1 à 13; Fascicule 2: Exposés 14 à 20; Groupe d'études et index cumulatif 1^{re} à 10^e années. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: ii + 82 *pp. (not consecutively paged); Fasc.* 2: ii + 94 *pp. (not consecutively paged)* (Editors) 40 #7061

* Исследования по теории чисел. Вып. 3. (Russian) [Studies in number theory. No. 3] Edited by D. N. Lenskoĭ. *Izdat. Saratov. Univ., Saratov,* 1969. 78 *pp.* (Editors) 42 #3010

* Number theory. Edited by P. Turán. Colloquia Mathematica Societatis János Bolyai, 2. *North-Holland Publishing Co., Amsterdam-London,* 1970. 244 *pp.* (Editors) 42 #4470

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 23^e année: 1969/70. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12 [1969/70, Paris]; Fasc. 2: Demi-groupes: Exposés DG1 à DG1b [1970, Nice]. *Secrétariat mathématique, Paris,* 1970. *Fasc.* 1: ii + 143 *pp. (not consecutively paged); Fasc.* 2: ii + 70 + iii + *pp. (not consecutively paged)* (Editors) 43 #4598

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 22^e année: 1968/69. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12; Fasc. 2: Exposés 13 à 21. *Secrétariat mathématique, Paris,* 1970. *Fasc.* 1: ii + 90 *pp. (not consecutively paged); Fasc.* 2: ii + 97 + iii *pp. (not consecutively paged)* (Editors) 43 #4599

Number theory and analysis

* Translations, Ser. 1, Vol. 2: Number theory and analysis. *American Mathematical Society, Providence, R. I.,* 1962. iii + 539 *pp.* (Editors) 38 #4250

* Number theory and analysis. A collection of papers in honor of Edmund Landau (1877-1938). Edited by Paul Turán. *Plenum Press, New York; VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 355 *pp.* (Editors) 41 #3200b

Numerical analysis of partial differential equations

* Numerical analysis of partial differential equations. Centro Internazionale Matematico Estivo (C.I.M.E.), 2° Ciclo, Ispra (Varese), 3-11 luglio 1967. Coordinatore: J. L. Lions. *Edizioni Cremonese, Rome,* 1968. 468 *pp.* (Editors) 39 #2343

Numerical and applied mathematics

* Некоторые вопросы вычислительной и прикладной математики. (Russian) [Certain problems in numerical and applied mathematics] Edited by G. I. Marčuk. Academy of Sciences of the USSR, Siberian Branch. *Izdat. "Nauka", Sibirsk. Otdel., Novosibirsk,* 1966. 277 *pp.* (Editors) 35 #1425

Numerical mathematics and computing technology

* Вопросы вычислительной математики и вычислительной техники. (Russian) [Questions of numerical mathematics and computing technology] *Izdat. Rostov. Univ., Rostov,* 1965. 147 *pp. (1 foldout)* (Editors) 34 #2142

Numerical methods

* Вычислительные методы и программирование. XV: Численные методы в механике сплошных сред. (Russian) [Computing methods and programming. XV: Numerical methods in the mechanics of continuous media] *Izdat. Moskov. Univ., Moscow,* 1970. 199 *pp.* (Editors) 44 #1307

Numerical methods in fluid dynamics

* Proceedings of the Second International Conference on Numerical Methods in Fluid Dynamics (September 15-19, 1970, University of California, Berkeley). Edited by Maurice Holt. Lecture Notes in Physics, Vol. 8. *Springer-Verlag, Berlin-New York,* 1971. ix + 462 *pp.* (Editors) 43 #4216

Numerical methods in gas dynamics

* Численные методы в газовой динамике. (Russian) [Numerical methods in gas dynamics] Collection of works of the Moscow State University Computing Center. No. 4. *Izdat. Moskov. Univ., Moscow,* 1965. 304 *pp.* (Editors) 34 #2392

* Вычислительные методы и программирование. XI: Численные методы в газовой динамике. (Russian) [Computing methods and programming. XI: Numerical methods in gas dynamics] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1968. 177 *pp.* (Editors) 44 #1238

Numerical methods and programming

* Вычислительные методы и программирование. I. (Russian) [Numerical methods and programming. I] A collection of papers from the Computing Center of Moscow University. Edited by N. P. Trifonov, G. S. Rosljakov, and E. A. Žogolev. *Izdat. Moskov. Univ., Moscow,* 1962. 350 *pp.* (M. L. Juncosa) 29 #4172

Numerical methods of solution of problems in the mechanics of continuous media

* Численные методы решения задач механики сплошных сред. (Russian) [Numerical methods of solution of problems in the mechanics of continuous media] Lectures presented at the Summer School on Numerical Methods, Kiev, June 15-July 7, 1966. Edited by O. M. Belocerkovskiĭ. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. 230 *pp.* (Editors) 42 #4085

Numerical solution of differential equations

* Conference on the Numerical Solution of Differential Equations (Dundee, Scotland, June 23-27, 1969). Edited by J. Ll. Morris. Lecture Notes in Mathematics, Vol. 109. *Springer-Verlag, Berlin-New York,* 1969. vi + 275 *pp.* (Editors) 42 #2670

Numerical solution of field problems in continuum physics

* Numerical solution of field problems in continuum physics. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in Durham, North Carolina, April 5-6, 1968. Edited by Garrett Birkhoff and Richard S. Varga. SIAM-AMS Proceedings, Vol. II. *American Mathematical Society, Providence, R. I.,* 1970. viii + 280 *pp.* (Editors) 40 #7059

Numerical solution of partial differential equations

* Numerical solution of partial differential equations. Proceedings of a Symposium held at the University of Maryland, College Park, Maryland, May 3-8, 1965. Edited by James H. Bramble. *Academic Press, New York-London,* 1966. xiv + 373 *pp.* (Editors) 33 #7220

* Numerical solution of partial differential equations. II (SYNSPADE 1970). Proceedings of the Second Symposium, held at the University of Maryland, College Park, Md., May 11-15, 1970. Edited by Bert Hubbard. *Academic Press, New York-London,* 1971. ix + 649 *pp.* (Editors) 42 #8711

Numerical solutions of nonlinear differential equations

* Numerical solutions of nonlinear differential equations. Proceedings of an Advanced Symposium conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., May 9-11, 1966. Edited by Donald Greenspan. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. x + 347 *pp.* (Editors) 34 #3749

Numerical solutions of nonlinear problems

* Studies in numerical analysis, 2: Numerical solutions of nonlinear problems. A collection of papers presented at Symposia in Numerical Solution of Nonlinear Problems sponsored by the Office of Naval Research at the Fall meeting of the Society for Industrial and Applied Mathematics, Philadelphia, Pennsylvania, October 21-23, 1968. Edited by James M. Ortega and Werner C. Rheinboldt. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1970. iv + 143 *pp.* (Editors) 42 #1302

Numerische Mathematik

* Funktionalanalytische Methoden der numerischen Mathematik. Vortragsauszüge der Tagung über funktionalanalytische Methoden der numerischen Mathematik vom 19. bis 25. November 1967 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald). Herausgegeben von L. Collatz und H. Unger. ISNM Internationale Schriftenreihe zur Numerischen Mathematik, Vol. 12. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 143 *pp.* (Editors) 40 #2207

* Numerische Mathematik. Differentialgleichungen. Approximationstheorie. Vortragsauszüge der Tagung über Numerische Behandlung von Differentialgleichungen vom 20. bis 25. Juni 1966 und der Tagung über Numerische Analysis, insbesondere Approximationstheorie vom 13. bis 19. November 1966 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald). Herausgegeben von L. Collatz, G. Meinardus, und H. Unger. International Series of Numerical Mathematics (ISNM), Vol. 9. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. 401 *pp.* (Editors) 42 #7

Obituary

A. Walfisz (A. Z. Val′fis). (Georgian) *Akad. Nauk Gruzin. SSR Trudy Tbiliss. Mat. Inst. Razmadze* 29 (1963), iii-xii (1964). (Editors) 31 #2120

} Alexandru Myller, 1879-1965. Obituary. (Romanian) *An. Şti. Univ. "Al. I. Cuza" Iaşi Secţ. I a Mat. (N.S.)* 11a (1965), I-XIV. *(1 plate)* (Editors) 34 #4097

} Manindra Nath Ghosh: 1918-1965. *Calcutta Statist. Assoc. Bull.* 14 (1965), 89-92. *(1 plate)* (Editors) 33 #5435

Academician Alexandru Myller. (Romanian) *Gaz. Mat. Ser. A* 71 (1966), 115-118. (Editors) 33 #15

Obituary: Tadasi Nakayama. *Nagoya Math. J.* 27 (1966), i-vii. *(1 plate)* (Editors) 33 #16

Stanisław Jaśkowski (1906-1965). (Polish) *Studia Logica* 19 (1966), 7-8. (Editors) 33 #5437

Nikolaĭ Vasil′evič Smirnov. (Russian) *Teor. Verojatnost. i Primenen.* 11 (1966), 495-496. *(1 plate)* (Editors) 33 #5440

Georgii Vladimirovich Kamenkov. *Prikl. Mat. Meh.* 31 (1967), 3-4 *(1 plate) (Russian); translated as J. Appl. Math. Mech.* 31 (1967), 1-2. (Editors) 35 #6516

Anatoliĭ Ivanovič Mal′cev. (Russian) *Sibirsk. Mat. Ž.* 8 (1967), I-VI. *(1 plate)* (Editors) 35 #4079

Obituary: Arvid Janovič Lusis. (Russian) *Latvian Math. Yearbook,* 5 *(Russian), pp.* 3-10. *Izdat. "Zanatne", Riga,* 1969. (Editors) 41 #1496

Obituary: A. C. Aitken. *Proc. Edinburgh Math. Soc.* (2) 16 (1968/69), 151-176 *(1 plate).* (Editors) 38 #3113

Alfréd Rényi. 1921-1970. *Studia Sci. Math. Hungar.* 5 (1970), 4. (Editors) 41 #8200

Rényi Alfréd, 1921-1970. (Hungarian) *Magyar Tud. Akad. Mat. Fiz. Oszt. Közl.* 20 (1971), 1-12. (Editors) 43 #6046

Obituary: Leonard Roth
(See Togliatti, E., 41 #5177)

Obituary: Alfréd Rényi
(See Kendall, David, 41 #5174)

October and science in Kazakhstan

* Октябрь и наука Казахстана. (Russian) [October and science in Kazakhstan] Academy of Sciences of the Kazakh SSR. *Izdat. "Nauka" Kazak. SSR, Alma-Ata,* 1967. 574 *pp.* (Editors) 35 #5270

Les oeuvres d'Euclide

* Les oeuvres d'Euclide. Traduites littéralement par F. Peyrard. Nouveau tirage augmenté d'une importante introduction par Jean Itard. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1966. xxvi + 627 *pp. (errata insert)* (G. J. Toomer) 35 #5273

Oeuvres de Jacques Hadamard

* Oeuvres de Jacques Hadamard. Tomes I, II, III, IV. Comité de publication des oeuvres de Jacques Hadamard: M. Fréchet, P. Levy, S. Mandelbrojt, L. Schwartz. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1968. *Tome I:* v + *pp.* 1-465 + 3 *pp. (1 plate); Tome II:* ii + *pp.* 467-1014; *Tome III:* iii + *pp.* 1015-1713; *Tome IV:* ii + *pp.* 1714-2296. (Editors) 37 #6158

Oeuvres mathématiques de Riemann

* Oeuvres mathématiques de Riemann. Traduites de l'allemand par L. Laugel, avec une préface de C. Hermite et un discours de Félix Klein. Nouveau tirage. *Librairie Scientifique et Technique Albert Blanchard, Paris,* 1968. xxxv + 453 *pp.* (Editors) 36 #4952

Oeuvres de Maurice Gevrey

* Oeuvres de Maurice Gevrey. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1970. xvi + 573 *pp. (1 plate)* (Editors) 42 #1641

Open House for Algebraists

* Papers from the "Open House for Algebraists", June-July, 1970, at Aarhus Universitet, Denmark. Various Publications Series, No. 17. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. iv + 161 *pp.* (Editors) 42 #5741

Open mappings

* The Proceedings of the First Conference on Monotone Mappings and Open Mappings (State University of New York at Binghamton, October 8-11, 1970). Edited by Louis F. McAuley. Dedicated to the memory of Gordon Thomas Whyburn. *State University of New York at Binghamton, Binghamton, N. Y.,* 1971. xxii + 422 *pp.* (Editors) 43 #1146

Opérateurs intégraux singuliers

* Séminaire Choquet. 7^e année: 1967/68. Initiation à l'analyse. Fasc. 1: Opérateurs intégraux singuliers. *Secrétariat mathématique, Paris,* 1969. iii + 98 *pp. (not consecutively paged)* (Editors) 43 #6032a

Operations research

(See Batchelor, James H.; Athans, Chris N., 29 #5627)

* Вопросы исследования операций. (Russian) [Problems in operations research] Academy of Sciences of the Georgian SSR. Institute of Cybernetics. *Izdat. "Mecniereba", Tbilisi,* 1966. 119 *pp.* (Editors) 35 #2618

* Methods of operations research. III. Edited by Rudolf Henn. *Verlag Anton Hain, Meisenhaim am Glan,* 1967. vii + 434 *pp. (1 plate)* (Editors) 36 #7398

Operations Research-Verfahren

* Operations Research-Verfahren. I. Herausgegeben von Rudolf Henn. *Verlag Anton Hain, Meisenheim am Glan,* 1963. 225 *pp.* (H. Künzi) 30 #4583

Operationsforschung und mathematische Statistik

* Operationsforschung und mathematische Statistik. I. Herausgegeben von Olaf Bunke. Schriftenreihe der Institute für Mathematik. Reihe B: Angewandte Mathematik und Mechanik, Heft 8. *Akademie-Verlag, Berlin,* 1968. 151 *pp.* (Editors) 39 #3805

* Operationsforschung und mathematische Statistik. II. Herausgegeben von Olaf Bunke. Schriftenreihe der Institute für Mathematik. Reihe B: Angewandte Mathematik und Mechanik, Heft 9. *Akademie-Verlag, Berlin,* 1970. 118 *pp. (loose insert)* (Editors) 41 #1365

Operator equations

* Проблемы математического анализа. Вып. 2: Линейные операторы и операторные уравнения. (Russian) [Problems of mathematical analysis. No. 2: Linear operators and operator equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ., Leningrad,* 1969. 157 *pp.* (Editors) 41 #7453

Optimal planning

* Математические методы в некоторых задачах оптимального планирования. (Russian) [Mathematical methods in certain optimal planning problems] Edited by I. I. Eremin. Academy of Sciences of the USSR. Ural Branch. Sverdlovsk Division of the V. A. Steklov Institute of Mathematics. *Ural'sk. Filial Akad. Nauk SSSR, Sverdlovsk,* 1967. 83 *pp.* (Editors) 39 #3798

* Математические методы в экомике. Вып. 5: Экономические функции и вопросы оптимального планирования в сельском хозяйстве. Типовые программы для ЭВМ. (Russian) [Mathematical methods in economics. No. 5: Economic functions and questions of optimal planning in agriculture. Standard programs for electronic computers] *Izdat. "Zinatne", Riga,* 1969. 123 *pp.* (1 *foldout*) (Editors) 42 #5615

Optimal solutions

* Семинар: Теория оптимальных решений. Вып. 1. (Russian) [Seminar: Theory of optimal solutions. No. 1] Academy of Science of the Ukrainian SSR. Science Council for Cybernetics. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 88 *pp.* (Editors) 37 #7188

Optimal systems

* Оптимальные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow,* 1967. 392 *pp.* (Editors) 38 #3060

Optimal systems of automatic control

* Оптимальные системы автоматического управления. (Russian) [Optimal systems of automatic control] Academy of Sciences of the USSR. Institute of Automation and Remote Control. *Izdat. "Nauka", Moscow,* 1967. 220 *pp. (loose errata)* (Editors) 36 #3586

Optimal systems. Statistical methods

* Оптимальные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 486 *pp.* (Editors) 32 #7268b

Optimization

* Topics in optimization. Edited by George Leitmann. Mathematics in Science and Engineering, Vol. 31. *Academic Press, New York-London,* 1967. xv + 469 *pp.* (Editors) 34 #8828

* Optimization. Symposium of the Institute of Mathematics and its Applications, University of Keele, England, 1968. Edited by R. Fletcher. *Academic Press, London-New York,* 1969. xviii + 354 *pp.* (Editors) 42 #1626

* Colloquium on Methods of Optimization (Held in Novosibirsk/USSR, June 1968). Edited by N. N. Moiseev. Lecture Notes in Mathematics, Vol. 112. *Springer-Verlag, Berlin-New York,* 1970. iii + 293 *pp.* (Editors) 40 #6993

* Symposium on Optimization (held in Nice, June 29th-July 5th, 1969). Edited by A. V. Balakrishnan, M. Contensou, B. F. de Veubeke, P. Krée, J. L. Lions and N. N. Moiseev. Lecture Notes in Mathematics, Vol. 132. *Springer-Verlag, Berlin-New York,* 1970. iii + 350 *pp.* (Editors) 41 #7828

Optimization problems

* Computing methods in optimization problems. Papers presented at the 2nd International Conference on Computing Methods in Optimization Problems, San Remo, Italy, September 9-13, 1968. Lecture Notes in Operations Research and Mathematical Economics, Vol. 14. *Springer-Verlag, Berlin-New York,* 1969. (Editors) 39 #7987

Optique et électronique quantiques

* Optique et électronique quantiques. Quantum optics and electronics. Lectures delivered at Les Houches during the 1964 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt, A. Blandin, C. Cohen and Tannoudji. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1965. ix + 621 *pp.* (Editors) 32 #3432

Ordinary differential equations

* Пятая летняя математическая школа (г. Ужгород, июнь-июль 1967 год): Теория обыкновенных дифференциальных уравнений и нелинейных колебаний. (Russian) [Fifth Mathematical Summer School (Uzhgorod June-July, 1967): The theory of ordinary differential equations and nonlinear oscillations] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. 550 *pp.* (Editors) 41 #3849

* Quelques problèmes de la théorie qualitative des équations différentielles ordinaires. Éditions Spéciales de l'Institut Mathématique de Béograd, Tome 7. *Matematički Institut u Beogradu, Belgrade,* 1969. 165 *pp.* (Editors) 41 #563

Orthogonal expansions and their continuous analogues

* Orthogonal expansions and their continuous analogues. Proceedings of the Conference held at Southern Illinois University, Edwardsville, Ill., April 27-29, 1967. Edited by Deborah Tepper Haimo. *Southern Illinois University Press, Carbondale, Ill.; Feffer & Simons, Inc., London-Amsterdam,* 1968. xx + 307 *pp.* (Editors) 37 #6141

Outlines of the Joint Soviet-American Symposium on Partial Differential Equations

* Outlines of the Joint Soviet-American Symposium on Partial Differential Equations (Novosibirsk, August, 1963). *Academy of Sciences of the USSR, Siberian Branch, Moscow,* 1963. 378 *pp.* (Editors) 33 #7726

Oxford: Logic Colloquium

* Formal systems and recursive functions. Edited by J. N. Crossley and M. A. E. Dummett. Proceedings of the Eighth Logic Colloquium, Oxford, July 1963. *North-Holland Publishing Co., Amsterdam,* 1965. ix + 320 *pp.* (Editors) 31 #4722

Pacific International Summer School in Physics

* Recent developments in particle physics. Proceedings of the First Pacific International Summer School in Physics, Honolulu, Hawaii, August, 1965. Edited by Michael J. Moravcsik. Nuclear Physics, Vol. 3. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. vii + 263 *pp.* (Editors) 35 #2561

Papers from the "Open House for Algebraists"

* Papers from the "Open House for Algebraists", June-July, 1970, at Aarhus Universitet, Denmark. Various Publications Series, No. 17. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. iv + 161 *pp.* (Editors) 42 #5741

Papers from the Summer Gathering on Function Algebras

* Papers from the Summer Gathering on Function Algebras at Aarhus, July 1969. Various Publications Series, No. 9. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. ii + 78 *pp.* (Editors) 40 #4771

Partial differential equations

* Outlines of the Joint Soviet-American Symposium on Partial Differential Equations (Novosibirsk, August, 1963). *Academy of Sciences of the USSR, Siberian Branch, Moscow,* 1963. 378 *pp.* (Editors) 33 #7726

* Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi, 25-27 Febbraio 1965). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1966. v + 144 *pp.* (Editors) 33 #7725

* Proceedings of Katata conference on the theory of partial differential equations and on the theory of complex manifolds. Held at Katata, Japan, September 18-22, 1966. *Research Institute for Mathematical Sciences of Kyoto University, Kyoto,* 1966. vi + 107 *pp.* (Editors) 36 #1252

* Atti del Convegno sulle Equazioni alle Derivate Parziali (Bologna, 22-24 aprile 1967). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni "Oderisi", Gubbio,* 1967. iv + 188 *pp.* (Editors) 40 #6022

Particle physics

* Recent developments in particle physics. Proceedings of the First Pacific International Summer School in Physics, Honolulu, Hawaii, August, 1965. Edited by Michael J. Moravcsik. Nuclear Physics, Vol. 3. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. vii + 263 *pp.* (Editors) 35 #2561

* Lectures in theoretical physics. Vol. IXB: High energy and particle physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin and Asim O. Barut. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. xi + 436 *pp.* (Editors) 38 #5433b

* Particle physics. Proceedings of the VIII Internationale Universitätswochen für Kernphysik 1969 der Karl-Franzens-Universität Graz, at Schladming (Steiermark), 24th February-8th March 1969. Edited by Paul Urban. Acta Physica Austriaca, Supplementum VI. *Springer-Verlag, Vienna-New York,* 1969. x + 550 *pp. (loose errata)* (Table of contents) 42 #2737

Particle symmetries

* Particle symmetries and axiomatic field theory. Vol. 2: Particle symmetries. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 691 *pp.* (Editors) 34 #3887b

Particle symmetries and axiomatic field theory

* Particle symmetries and axiomatic field theory. Vol. 1: Axiomatic field theory. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 516 *pp.* (Editors) 34 #3887a

* Particle symmetries and axiomatic field theory. Vol. 2: Particle symmetries. Brandeis University Summer Institute in Theoretical Physics, 1965. Edited by M. Chrétien and S. Deser. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1966. xi + 691 *pp.* (Editors) 34 #3887b

Paulišasiddhānta

(See Pingree, David, 42 #5755)

Periodic orbits, stability and resonances

* Periodic orbits, stability and resonances. Proceedings of a Symposium conducted by the University of São Paulo, the Technical Institute of Aeronautics of São José dos Campos, and the National Observatory of Rio de Janeiro, at the University of São Paulo, São Paulo, Brasil, 4-12 September, 1969. Edited by G. E. O. Giacaglia. *D. Reidel Publishing Co., Dordrecht,* 1970. xiv + 530 *pp.* (Editors) 42 #8753

Perspectiva communis

* John Pecham and the science of optics: *Perspectiva communis.* Edited with an introduction, English translation, and critical notes by David C. Lindberg. *The University of Wisconsin Press, Madison, Wis.-London,* 1970. xvii + 300 *pp.* (J. A. Lohne) 42 #2925

Perspectives in geometry and relativity

* Perspectives in geometry and relativity. Essays in honor of Václav Hlavatý. Edited by Banesh Hoffmann. Issued under the auspices of the Czechoslovak Society of Arts and Sciences in America, Inc. *Indiana University Press, Bloomington, Ind.-London,* 1966. xi + 491 *pp. (loose errata)* (Editors) 34 #5

Perturbation theory and its applications in quantum mechanics

* Perturbation theory and its application in quantum mechanics. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, and the Theoretical Chemistry Institute at the University of Wisconsin, Madison, Wis., October 4-6, 1965. Edited by Calvin H. Wilcox. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. x + 428 *pp.* (Editors) 34 #1130

Perturbed angular correlations

* Perturbed angular correlations. Supplemented by Proceedings of the Uppsala Meeting on "Extranuclear Perturbations in Angular Correlations", May 27-30, 1963. Edited by E. Karlsson, E. Matthias, and K. Siegbahn. *North-Holland Publishing Co., Amsterdam,* 1964. xvi + 467 *pp.* (Editors) 31 #5576

Philosophical problems in logic. Some recent developments

* Philosophical problems in logic. Some recent developments. Edited by Karel Lambert. *D. Reidel Publishing Co., Dordrecht; Humanities Press, New York,* 1970. v + 176 *pp.* (Editors) 42 #7480

Philosophy of mathematics

* Philosophy of mathematics: Selected readings. Edited and with an introduction by Paul Benacerraf and Hilary Putnam. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1964. vii + 536 *pp.* (G. Buchdahl) 29 #3333

* The philosophy of mathematics. Edited by Jaakko Hintikka. Oxford Readings in Philosophy. *Oxford University Press, London,* 1969. iv + 186 *pp.* (Editors) 40 #2517

hilosophy of Mathematics, Problems in the

* Problems in the philosophy of mathematics. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 1. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam,* 1967. xv + 241 *pp.* (Editors) 35 #5

* The problem of inductive logic. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 2. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam,* 1968. viii + 417 *pp.* (Editors) 37 #3886

hilosophy of science

* Logic, methodology and philosophy of science. Proceedings of the 1960 International Congress. Edited by Ernest Nagel, Patrick Suppes and Alfred Tarski. *Stanford University Press, Stanford, Calif.,* 1962. ix + 661 *pp.* (Editors) 29 #3347

honons and phonon interactions

* Phonons and phonon interactions. Aarhus Summer School Lectures, 1963. Edited by Thor A. Bak. *W. A. Benjamin, Inc., New York-Amsterdam,* 1964. xiv + 640 *pp.* (From the introduction) 32 #8942

hysical acoustics

* Physical acoustics: Principles and methods. Vol. I—Part B: Methods and devices. Edited by Warren P. Mason. *Academic Press, New York-London,* 1964. xiv + 376 *pp.* (Editors) 29 #4383

* Physical acoustics. Principles and methods. Vol. II-Part A: Properties of gases, liquids and solutions. Edited by Warren P. Mason. *Academic Press, New YOrk-London,* 1965. xv + 476 *pp.* (Editors) 31 #1861a

* Physical acoustics. Principles and methods. Vol. II-Part B: Properties of polymers and nonlinear acoustics. Edited by Warren P. Mason. *Academic Press, New York-London,* 1965. xvii + 383 *pp.* (Editors) 31 #1861b

Physical and mathematical sciences in the East

* Физико-математические науки в странах Востока.(Russian) [Physical and mathematical sciences in the East] A collection of articles and publications. Edited by A. T. Grigorjan and A. P. Juškevič. Academy of Sciences of the USSR. Institute of History of Natural Sciences and Technology. *Izdat. "Nauka", Moscow,* 1966. 358 *pp.* (Editors) 34 #5608

* Физико-математические науки в странах Востока. (Russian) [Physical and mathematical sciences in the East] A collection of articles and publications, No. 2 (5). Edited by A. T. Grigor'jan and A. P. Juškevič. Academy of Sciences of the USSR. Institute of History of Natural Sciences and Technology. *Izdat. "Nauka", Moscow,* 1969. 197 *pp.* (Editors) 40 #2497

Physical sciences

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. III: Physical Sciences. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 324 *pp. (1 plate)* (Editors) 36 #6033

Physics, mathematics and mechanics

* Физика, математика и механика. (Russian) [Physics, mathematics and mechanics] Proceedings of the First Moscow Conference of Young Scientists. *Izdat. "Nauka", Moscow,* 1968. 231 *pp.* (Editors) 39 #3942

Physics of plasma and problems of controlled thermonuclear synthesis

* Физика плазмы и проблемы управляемого термоядерного синтеза. IV. (Russian) [Physics of plasma and problems of controlled thermonuclear synthesis. IV] Proceedings of the Fourth Conference on Physics of Plasma and Problems of Controlled Thermonuclear Synthesis, May, 1963. *Naukova Dumka, Kiev,* 1965. 544 *pp.* 32 #951

Physikalisch-mathematische Monographien von W. v. Ignatowsky

* Physikalisch-mathematische Monographien von W. v. Ignatowsky. *Chelsea Publishing Co., Bronx, N. Y.,* 1966. x + 234 *pp. (not consecutively paged)* (Editors) 34 #4098

Planning and control

* Математические методы в экономике. Вып. 4: Планирование и управление в водном хозяйстве. (Russian) [Mathematical methods in economics. No. 4: Planning and control in water resource management] *Izdat. "Zinatne", Riga,* 1969. 179 *pp. (2 foldouts)* (Editors) 41 #6555

Plasma dynamics

* Proceedings of Symposia in Applied Mathematics. Vol. XVIII: Magneto-fluid and plasma dynamics. Edited by Harold Grad. *American Mathematical Society, Providence, R. I.,* 1967. vii + 293 *pp.* (Editors) 35 #2543

Plasma physics

* Вопросы теории плазмы, Вып. I. (Russian) [Problems in the theory of plasma physics, I] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 287 *pp.* (Editors) 32 #7141

* Вопросы теории плазмы, Вып. II. (Russian) [Problems in the theory of plasma physics, II] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 264 *pp.* (Editors) 32 #7142

* Вопросы теории плазмы, Вып. III. (Russian) [Problems in the theory of plasma physics, III] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 291 *pp.* (Editors) 32 #7143

* Вопросы теории плазмы, Вып. IV. (Editors) [Problems in the theory of plasma physics, IV] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1964. 640 *pp.* (Editors) 32 #7144

* Reviews of plasma physics. Vol. 1. Edited by M. A. Leontovič. Authorized translation from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1965. xii + 326 *pp.* (Edward Frieman) 33 #2341

* Reviews of plasma physics. Vol. 2. Edited by M. A. Leontovič. Translated from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1966. viii + 297 *pp.* (Editors) 34 #2309

* Reviews of plasma physics. Vol. 4. Edited by M. A. Leontovič. Authorized translation from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1966. viii + 241 *pp.* (Editors) 32 #7145

Plates and shells

* Труды конференции по теории пластин и оболочек (24-29 Октября 1960). (Russian) [Proceedings of the Conference on Plates and Shells] Akademija Nauk SSSR. Kazanskiĭ Filial. *Izdat. Kazan. Univ., Kazan,* 1961. 427 *pp.* (Editors) 33 #6921

* Исследования по теории пластин и оболочек. Сборник II. (Russian) [Studies in the theory of plates and shells. Collection II] *Izdat. Kazan. Univ., Kazan,* 1964. 195 *pp.* (Editors) 33 #6922

* Исследования по теории пластин и оболочек. Сборник III. (Russian) [Studies in the theory of plates and shells. Collection III] *Izdat. Kazan. Univ., Kazan,* 1965. 330 *pp.* (Editors) 33 #6923

* Исследования по теории пластин и оболочек. Сборник IV. (Russian) [Studies in the theory of plates and shells. Collection IV] *Izdat. Kazan. Univ., Kazan,* 1966. 565 *pp. (errata insert)* (Editors) 41 #6440

Polish Academy of Sciences

* Scientific activities of the Institute of Basic Technical Problems of the Polish Academy of Sciences in 1962. Institute of Basic Technical Problems, Polish Academy of Sciences. *Państwowe Wydawnictwo Naukowe, Warsaw,* 1964. 83 *pp.* 30 #1914

Polish logic

* Polish logic: 1920-1939. Papers by Ajdukiewicz, Chwistek, Jaśkowski, Jordan, Leśniewski, Łukasiewicz, Słupecki, Sobociński and Wajsberg. With an introduction by Tadeusz Kotarbiński. Edited by Storrs McCall. Translated by B. Gruchman, H. Hiz, Z. Jordan, E. C. Luschei, S. McCall, W. Teichmann, H. Weber and P. Woodruff. *Clarendon Press, Oxford,* 1967. viii + 406 *pp.* (Editors) 36 #1287

Positional games

* Теория игр: Позиционные игры. (Russian) [Theory of games: Positional games] Edited by N. N. Vorob′ev and I. N. Vrublevskaja. *Izdat. "Nauka", Moscow,* 1967. 523 *pp.* (Editors) 36 #4906

Potential theory

* Seminar S. Stoilow, 1959-60. Teoria potenţialului pe suprafeţe Riemanniene. (Romanian. Russian and English summaries) [Seminar S. Stoilow, 1959-60. Potential theory on Riemann surfaces] Conducted by N. Boboc, C. Constantinescu and A. Cornea. *Editura Academiei Republicii Populare Romîne, Bucharest,* 1962. 160 *pp.* (L. Fourès) 33 #4295

* Séminarie de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 10^e année: 1965/66. Fasc. 1: Exposés 1 à 4. *Secrétariat mathématique, Paris,* 1967. ii + 143 *pp. (not consecutively paged)* (Editors) 35 #3080a

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 10^e année: 1965/66. Fasc. 2: Exposés 5 à 12 et index cumulatif. *Secrétariat mathématique, Paris,* 1967. ii + 140 *pp.* + 1 + 14 *pp. (not consecutively paged)* (Editors) 35 #3080b

* Markov processes and potential theory. Proceedings of a Symposium conducted by the Mathematics Research Center and the United States Army at the University of Wisconsin, Madison, Wis., May 1-3, 1967. Edited by Joshua Chover. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 235 *pp.* (Editors) 37 #3647

* Seminar über Potentialtheorie. Herausgegeben von H. Bauer. Lecture Notes in Mathematics, No. 69. *Springer-Verlag, Berlin-New York,* 1968. v + 180 *pp.* (Editors) 38 #2318

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 11^e année: 1966/67. *Secrétariat mathématique, Paris,* 1968. iii + 172 *pp. (not consecutively paged)* (Editors) 38 #3457

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 12^e année: 1967/68. *Secrétariat mathématique, Paris,* 1969. iii + 166 *pp. (not consecutively paged)* (Editors) 40 #5381

* Potential theory. Centro Internazionale Matematico Estivo (C.I.M.E.). I Ciclo, Stresa, 2-10 Luglio 1969. Coordinatore: M. Brelot. *Edizioni Cremonese, Rome,* 1970. ii + 248 *pp.* (Editors) 42 #6261

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 13^e année: 1969/70. *Secrétariat mathématique, Paris,* 1971. iii + 94 *pp. (not consecutively paged)* (Editors) 44 #4226

Praktische Funktionenlehre

(See Tölke, Friedrich, 35 #3089, 36 #433, 39 #3040 and 43 #6466)

Praktische Methoden und Anwendungen der Mathematik

* Grundzüge der Mathematik. Band V: Praktische Methoden und Anwendungen der Mathematik (Rechenanlagen, Algebra und Analysis). Herausgegeben von H. Behnke, G. Bertram, L. Collatz, R. Sauer und H. Unger. *Vandenhoeck & Ruprecht, Göttingen,* 1968. xi + 478 *pp.* (Editors) 38 #957

Probabilistic methods in applied mathematics

* Probabilistic methods in applied mathematics, Vol. 1. Edited by A. T. Bharucha-Reid. *Academic Press, New York-London,* 1968. x + 291 *pp.* (Editors) 41 #4701a

* Probabilistic methods in applied mathematics, Vol. 2. Edited by A. T. Bharucha-Reid. *Academic Press, New York-London,* 1970. x + 220 *pp.* (Editors) 41 #4701b

Probabilistic models and quality control

* Вероятностные модели и статистический контроль. (Russian) [Probabilistic models and quality control] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1968. 75 *pp.* (Editors) 41 #4697

Probabilistic processes

* Предельные теоремы и вероятностные процессы. (Russian) [Limit theorems and probabilistic processes] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. 98 *pp.* (Editors) 36 #5969

Probability

* Математический анализ. Теория вероятностей. Регулирование (1962). (Russian) [Mathematical analysis. Theory of probability. Control (1962)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1964. 211 *pp.* (Editors) 31 #3258

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 100 *pp.* (Editors) 36 #6

* Séminaire de Probabilités (Université de Strasbourg, novembre 1966 - février 1967). Vol. I. Lecture Notes in Mathematics, No. 39. *Springer-Verlag, Berlin-New York,* 1967. i + 189 *pp.* (Editors) 37 #4845

* Séminaire de Probabilités (Université de Strasbourg, mars 1967-octobre 1967). Vol. II. Lecture Notes in Mathematics, No. 51. *Springer-Verlag, Berlin-New York,* 1968. iii + 199 *pp.* (Editors) 38 #737

* Séminaire de Probabilités. III (Université de Strasbourg, octobre 1967-juin 1968). Lecture Notes in Mathematics, No. 88. *Springer-Verlag, Berlin-New York,* 1969. iii + 229 *pp.* (Editors) 40 #5026

* Séminaire de Probabilités. IV (Université de Strasbourg, 1968-1969). Lecture Notes in Mathematics, Vol. 124. *Springer-Verlag, Berlin-New York,* 1970. iv + 282 *pp.* (Editors) 41 #4649

* Contributions to ergodic theory and probability. Proceedings of the First Midwestern Conference on Ergodic Theory, held at the Ohio State University, March 27-30, 1970. Organized by Louis Sucheston. Lecture Notes in Mathematics, Vol. 160. *Springer-Verlag, Berlin-New York,* 1970. vii + 278 *pp.* (Editors) 42 #3256

* Advances in probability and related topics. Vol. 2. Edited by Peter Ney. *Marcel Dekker, Inc., New York,* 1970. ix + 248 *pp.* (Editors) 43 #6977b

* Advances in probability and related topics. Vol. 1. Edited by Peter Ney. *Marcel Dekker, Inc., New York,* 1971. xii + 215 *pp.* (Editors) 43 #6977a

Probability and information theory

* Probability and information theory. Proceedings of the International Symposium at McMaster University, Canada, April, 1968. Edited by M. Behara, K. Krickeberg, and J. Wolfowitz. Lecture Notes in Mathematics, Vol. 89. *Springer-Verlag, Berlin-New York,* 1969. iv + 256 *pp.* (Editors) 42 #1249

Probability and mathematical statistics

* Зимная школа по теории вероятностей и математической статистике, г. Ужгород, 1964. (Russian) [Winter school in the theory of probability and mathematical statistics, held in Užgorod, 1964] *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. 263 *pp.* (Editors) 31 #2740

* Теория вероятностей и математическая статиска. Вып. I. (Russian) [Theory of probability and mathematical statistics. No. I] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. 134 *pp.* (Editors) 33 #1195

Probability methods in analysis

* Symposium on probability methods in analysis. Lectures delivered at a Symposium at Loutraki, Greece, May 5 to June 4, 1966. Lecture Notes in Mathematics, No. 31. *Springer-Verlag, Berlin-New York,* 1967. iv + 329 *pp.* (Editors) 36 #5

Probability and physical problems

* Translations, Ser. 1, Vol. 11: Probability and physical problems. *American Mathematical Society, Providence R. I.,* 1962. ii + 397 *pp.* (Editors) 38 #4252

Probability theory

* Progress in mathematics. Vol, 3: Probability theory, mathematical statistics and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1969. vii + 122 *pp.* (Editors) 39 #1259

* Труды шестой математической летней школы: Теория вероятностей и математической статистике (Кацивели, 1968). (Russian) [Proceedings of the Sixth Mathematical Summer School: Probability Theory and Mathematical Statistics (Kaciveli, 1968)] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 326 *pp.* (Editors) 42 #6889

Probability theory, contributions to

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 1. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 447 *pp.* (Editors) 35 #2303

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 2. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 483 *pp.* (Editors) 35 #2304

Probability theory, mathematical statistics, and theoretical cybernetics

* Progress in mathematics. Vol. 7: Probability theory, mathematical statistics, and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian by J. S. Wood. *Plenum Press, New York-London,* 1970. ix + 145 *pp.* (Editors) 42 #2903b

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1969. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 104 *pp. (errata insert)* 42 #4346

Problem of inductive logic

* The problem of inductive logic. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 2. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam,* 1968. viii + 417 *pp.* (Editors) 37 #3886

Probleme und Methoden der Mathematischen Physik

* Vorträge der 3. Tagung über Probleme und Methoden der Mathematischen Physik. Heft 1, 2. *Technische Hochschule Karl-Marx-Stadt, Karl-Marx-Stadt,* 1966. *Vol. I:* ii + 220 *pp. Vol. II:* ii + 239 *pp. (loose errata)* (Editors) 36 #6249

* Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). Wiss. Z. Techn. Hochsch. Karl-Marx-Stadt 11 (1969), Heft 3. *Verlag der Technischen Hochschule Karl-Marx-Stadt, Karl-Marx-Stadt,* 1969, *pp.* 265-410. 42 #1631

Problèmes mathématiques de la théorie des automates

* Séminaire M. P. Schützenberger, A. Lentin et M. Nivat. Année 1969/70: Problèmes mathématiques de la théorie des automates. *Secrétariat mathématique, Paris,* 1970. iii + 146 + iii *pp. (not consecutively paged)* (Table of contents) 43 #7278

Problèmes proposés par les participants au colloque

* Problèmes proposés par les participants au colloque. Colloquium on the Theory of Approximation of Functions (Cluj, 1967). *Mathematica (Cluj)* 10(33), (1968), 195-199. 38 #4857

Problems of applied mathematics

* Некоторые вопросы прикладной математики. Вып. 3. (Russian) [Certain problems of applied mathematics. No. 3] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Izdat. "Naukova Dumka", Kiev,* 1967. 432 *pp.* (2 *foldouts*) (Editors) 39 #3736

Problems of computational mathematics

* Вопросы вычислительной математики. (Russian) [Problems of computational mathematics] Academy of Sciences of the Azerbaijan SSR. Institute of Cybernetics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1967. 216 *pp.* (Editors) 35 #6326

* Вопросы вычисвительной математики. (Russian) [Problems of computational mathematics] Academy of Sciences of the Azerbaijani SSR. Institute of Cybernetics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. 196 *pp.* (Editors) 39 #2287

Problems from the Conference on Analytic Functions

Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). I, II. *Ann. Polon. Math.* 20 (1968), 311-322. (Ch. Pommerenke) 38 #3406

Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). III. *Ann. Polon. Math.* 20 (1968), 323-325. (H. B. Laufer) 38 #3461

Problems in the constructive trend in mathematics

* Proceedings of the Steklov Institute of Mathematics, No. 93 (1967): Problems in the constructive trend in mathematics. IV. Edited by V. P. Orevkov and M. A. Šanin. Translated from the Russian. *American Mathematical Society, Providence, R. I.,* 1970. viii + 329 *pp.* (1 *plate*) (Table of contents) 41 #1539

Problems in cybernetics

* Problémy kybernetiky. (Czech) [Problems in cybernetics] *Nakladatelství Československé Akademie Věd, Prague,* 1965. 371 *pp.* (Editors) 32 #7219

Problems of elementary particle physics

* Вопросы физики элементарных частиц. (Russian) [Problems in elementary particle physics] Spring School of Experimental and Theoretical Physics, Erevan, May 18-28, 1965. Edited by A. I. Alihanjan. State Committee of the Council of Ministers of the USSR for the Utilization of Atomic Energy. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1966. 754 *pp.* (Editors) 33 #8184

Problems in functional analysis and its applications

* Некоторые вопросы функционального анализа и его применений. (Russian) [Some problems in functional analysis and its applications] Academy of Sciences of the Azerbaijani SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 171 *pp.* (Editors) 33 #3070

Problems of integration of differential equations

* Вопросы интегрирования дифференциальных уравнений. (Russian) [Problems of integration of differential equations] Samarkand State University. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1966. 273 *pp.* (Editors) 35 #1905

Problems of magnetohydrodynamics and plasma dynamics

* Вопросы магнитной гидродинамики и динамини плазмы. II. (Russian) [Problems of magnetohydrodynamics and plasma dynamics. II] Proceedings of the second conference on theoretical and applied magnetohydrodynamics held in Riga, June 27-July 2, 1960. *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. 660 *pp.* (Editors) 31 #6501

Problems in mathematical analysis

* Problems in mathematical analysis. Edited by B. Demidovich. Translated from the Russian by G. Yankovsky. *Peace Publishers, Moscow,* 1965. 496 *pp.* (Editors) 32 #174

* Problems in mathematical analysis. Vol. 1. Boundary value problems and integral equations. Edited by V. I. Smirnov. Translated from the Russian. *Consultants Bureau, New York,* 1968. ii + 150 *pp.* (Editors) 38 #4793

* Problems in mathematical analysis. Edited by B. Demidovich. Translated from the Russian by G. Yankovsky. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1969. 496 *pp.* (Editors) 40 #5796

Problems of mathematical analysis

* Проблемы математического анализа. Краевые задачи и интегральные уравнения. (Russian) [Problems of mathematical analysis. Boundary value problems and integral equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ. Leningrad,* 1966. 166 *pp.* (Editors) 34 #6279

* Проблемы математического анализа. Вып 2: Линейные операторы и операторные уравнения. (Russian) [Problems of mathematical analysis. No. 2: Linear operators and operator equations] Edited by V. I. Smirnov. *Izdat. Leningrad. Univ., Leningrad,* 1969. 157 *pp.* (Editors) 41 #7453

Problems of mathematical physics

* Проблемы математической физикии. Вып. 1. Спектральная теория и волновые процессы. (Russian) [Problems of mathematical physics. No. 1. Spectral theory and wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1966. 133 *pp. (errata insert)* (Editors) 34 #2393

* Проблемы математической физики. Вып 2. Спектральная теория. Задачи дифракции. (Russian) [Problems of mathematical physics. No. 2. Spectral theory. Diffraction problems] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1967. 158 *pp.* (Editors) 38 #1975

* Проблемы математической физики. Вып. 4. Спектральная теория. Волновые процессы. (Russian) [Problems of mathematical physics. No. 4. Spectral theory. Wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1970. 135 *pp. (errata)* (Editors) 42 #2198

Problems of mathematical physics and theory of functions

* Вопросы математической физики и теории функций. I. (Russian) [Problems of mathematical physics and theory of functions. I] *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. 192 *pp.* (Editors) 32 #2

* Вопросы математической физики и теории функций. II. (Russian) [Problems of mathematical physics and the theory of functions. II] *Naukova Dumka, Kiev,* 1964. 196 *pp.* (Editors) 32 #2292

Problems in the mechanics of rock strata

* Вопросы механики горных пород. (Russian) [Problems in the mechanics of rock strata] Academy of Sciences of the Kazakh SSR. Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1967. 112 *pp.* (Editors) 35 #7680

Problems in non-linear analysis

* Problems in non-linear analysis. Centro Internazionale Matematico Estivo (C.I.M.E.). IV Ciclo, Varenna, 20-29 agosto 1970. Coordinatore: G. Prodi. *Edizioni Cremonese, Rome,* 1971. ii + 574 *pp.* (Editors) 43 #7987

Problems on non-linear elasticity

* Continuum mechanics. IV. Problems of non-linear elasticity. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 263 *pp.* (Editors) 33 #1187d

Problems in numerical mathematics and computing technology

* Вопросы вычислительной мательтатики и вычислитевьной техники. (Russian) [Problems in numerical mathematics and computing technology] Edited by L. A. Ljusternik. *Gosudarstv. Naučno-Tehn. Izdat. Mašinostr. Lit., Moscow,* 1963. 432 *pp.* (Editors) 29 #5365

Problems in operations research

* Вопросы исследования операций. (Russian) [Problems in operations research] Academy of Sciences of the Georgian SSR. Institute of Cybernetics. *Izdat. "Mecniereba", Tbilisi,* 1966. 119 *pp.* (Editors) 35 #2618

Problems in the philosophy of mathematics

* Problems in the philosophy of mathematics. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 1. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam,* 1967. xv + 241 *pp.* (Editors) 35 #5

Problems in probability theory, mathematical statistics and theory of random functions

* Problems in probability, mathematical statistics and theory of random functions. Edited by A. A. Sveshnikov. Translated from the Russian by Scripta Technica, Inc. Edited by Bernard R. Gelbaum. *W. B. Saunders Co., Philadelphia, Pa.-Toronto, Ont.-London,* 1968. ix + 481 *pp.* (Editors) 36 #5970

Problems in quantum mechanics

(See Gol′dman, I. I.; Krivčenkov, V. D.; Kogan, V. I.; Galickiĭ, V. M., 31 #4359)

Problems of structural linguistics

* Проблемы структурной лингвистики. (Russian) [Problems of structural linguistics] Edited by S. K. Šaumjan. Academy of Sciences of the USSR. Institute of Russian Language. *Izdat. Akad. Nauk SSSR, Moscow,* 1963. 282 *pp.* (Editors) 33 #8238

Problems of theoretical cybernetics

* Вопросы теоретической кибернетики. (Russian) [Problems of theoretical cybernetics] Academy of Sciences of the Ukrainian SSR. *Naukova Dumka, Kiev,* 1965. 211 *pp.* (Editors) 33 #7176

Problems in the theory of control systems

* Вопросы теории управляющих систем. (Russian) [Problems in the theory of control systems] Academy of Sciences of the Moldavian SSR. Department of Cybernetics. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. 115 *pp.* (Editors) 34 #1085

Problems in the theory of electronic computing machines

* Вопросы теории ЕЦММ (Труды Семинара). Вып. 2. (Russian) [Problems in the theory of electronic computing machines (Proc. Seminar). No. 2] Academy of Sciences of the Ukrainian SSR. Scientific Council on Cybernetics. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 103 *pp.* (Editors) 39 #2363

Problems in the theory of electronic digital computers

* Вопросы теории электронных цифровых математических машин, Вып. 3 (Семинар). (Russian) [Problems in the theory of electronic digital computers, No. 3 (Seminar)] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 111 *pp.* (Editors) 37 #3799

* Вопросы теории электронных цифровых математических машин (Труды семинара, Киев, 1966/67 гг.). Вып 1. (Russian) [Problems in the theory of electronic digital computers (Proceedings of a Seminar, Kiev, 1966/67). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 107 *pp.* (Editors) 39 #6549

Problems in the theory and history of differential equations

* Вопросы теории и истории дифференциальных уравнений. (Russian) [Problems in the theory and history of differential equations] *"Naukova Dumka", Kiev,* 1968. 183 *pp.* (Editors) 37 #3883

Problems in the theory of plasma physics

* Вопросы теории плазмы, Вып. I. (Russian) Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 287 *pp.* (Editors) 32 #7141

* Вопросы теории пвазмы, Вып. II. (Russian) [Problems in the theory of plasma physics, II] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 264 *pp.* (Editors) 32 #7142

* Вопросы теории плазмы. Вып. III. (Russian) [Problems in the theory of plasma physics, III] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1963. 291 *pp.* (Editors) 32 #7143

* Вопросы теории плазмы, Вып. IV. (Russian) [Problems in the theory of plasma physics, IV] Edited by M. A. Leontovič. *Atomizdat, Moscow,* 1964. 640 *pp.* (Editors) 32 #7144

Proceedings

* American Statistical Association 1966 Proceedings of the Business and Economic Statistics Section. Papers presented at the Annual Meeting of the American Statistical Association, Los Angeles, Calif., August 15-19, 1966. *American Statistical Association, Washington, D. C.,* 1966. xi + 487 *pp.* (Editors) 39 #7700

* American Statistical Association 1968 Proceedings of the Business and Economic Statistics Section. Papers presented at the Annual Meeting of the American Statistical Association, Pittsburgh, Pa., August 20-23, 1968. *American Statistical Association, Washington, D. C.,* 1968. xi + 495 *pp.* (Editors) 39 #7701

Proceedings Advanced Seminar

* Perturbation theory and its application in quantum mechanics. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, and the Theoretical Chemistry Institute at the University of Wisconsin, Madison, Wis., October 4-6, 1965. Edited by Calvin H. Wilcox. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. x + 428 *pp.* (Editors) 34 #1130

* Spectral analysis of time series. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army and the Statistics Department at the University of Wisconsin, Madison, Wis., October 3-5, 1966. Edited by Bernard Harris. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 319 *pp.* (Editors) 35 #1168

* Theory and applications of spline functions. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., October 7-9, 1968. Edited by T. N. E. Greville. Publication No. 22 of the Mathematics Research Center, United States Army, The University of Wisconsin. *Academic Press, New York-London,* 1969. xi + 212 *pp.* (Editors) 38 #3663

* Graph theory and its applications. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, United States Army at the University of Wisconsin, Madison, October 13-15, 1969. Edited by Bernard Harris. Publication No. 24 of the Mathematics Research Center, United States Army, the University of Wisconsin. *Academic Press, New York-London,* 1970. viii + 262 *pp. (loose errata)* (Editors) 41 #8283

* Nonlinear functional analysis and applications. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, the University of Wisconsin, Madison, October 12-14, 1970. Edited by Louis B. Rall. *Academic Press, New York-London,* 1971. vii + 586 *pp.* (Editors) 42 #7457

Proceedings of the Advanced Study Institute on Algebraic Topology

* Proceedings of the Advanced Study Institute on Algebraic Topology. Vol. II (August 10-23, 1970). *Matematisk Institut, Aarhus Universitet, Aarhus,* 1970. vi + *pp.* 240-475. (Editors) 42 #6807

Proceedings of an Advanced Symposium Numerical Solutions of Nonlinear Differential Equations

* Numerical solutions of nonlinear differential equations. Proceedings of an Advanced Symposium conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., May 9-11, 1966. Edited by Donald Greenspan. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. x + 347 *pp.* (Editors) 34 #3749

Proceedings All-Union Colloquium

* Математические методы контроля качества и надежности. (Russian) [Mathematical methods in quality control and reliability Proceedings of an All-Union Colloquium (Tashkent, 1967). *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 125 *pp.* (Editors) 42 #3957

Proceedings of the All-Union Conference held in Alma-Ata, October 10-16, 1963. See All-Union Conference.

Proceedings All-Union Conference on Automatic Control

* Оптимавьные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow,* 1967. 392 *pp.* (Editors) 38 #3060

* Многосвязные и инвариантные системы. Нелинейные и дискретные системы. (Russian) [Multiply connected and invariant systems. Nonlinear and discrete systems] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow,* 1968. 559 *pp.* (Editors) 38 #3061

Proceedings of the All-Union Conference on the Constructive Theory of Functions

* Иссведования по современным проблемам конструктивной теории функций. (Russian) [Studies of contemporary problems in the constructive theory of functions] Proceedings of the Second All-Union Conference on the Constructive Theory of Functions held in Baku, October 8-13, 1962. Edited by I. I. Ibragimov. Academy of Sciences of the Azerbaijani SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 638 *pp.* (Editors) 33 #1617

Proceedings of the All-Union Conference on Theoretical and Applied Mechanics

* Аналитическая механика. Устойчивость движения. Небесная баллисника. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. I. (Russian) [Analytic mechanics. Stability of motion. Celestial ballistics. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports. Vol. I] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur′e and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 214 *pp* *(errata insert)* (Editors) 34 #2a

* Колебания. Зироскопия. Теориа механисмов. Механика жидкости и газа. Труды II всесоюзного сьь езда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. II. (Russian) [Vibrations. Gyroscopics. Theory of mechanisms. Mechanics of fluids and gases. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-Februar 5, 1964). Survey Reports. Vol. II] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur′e, G. K. Mihaĭlov and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 306 *pp. (errata insert)* (Editors) 34 #2b

* Механика твердого тела. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. III. (Russian) [Mechanics of a solid body. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964) Survey reports. Vol. III] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. S. Vol'mir and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 412 *pp.* (Editors) 34 #2c

Proceedings of the All-Union Conference on the Theory of Probability and Mathematical Statistics

* Труды Всесоюзного Совещания по Теории Вероятностей и Математической Статистике. (Russian) [Proceedings of the All-Union Conference on the Theory of Probability and Mathematical Statistics] Erevan, 19-25 September 1958. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1960. 292 *pp.* (Editors) 29 #5261

Proceedings of the All-Union Mathematical Congress

* Труды Четвертого Всесоюзного Математического съезда. Том II: Секционные Доквады. (Russian) [Proceedings of the Fourth All-Union Mathematical Congress. Vol. II: Sectional Lectures] Leningrad, 3-12 July 1961. *Izdat. "Nauka", Leningrad,* 1964. 706 *pp.* (Editors) 29 #4649

Proc. All-Union Sympos. Comput. Methods in Transport Theory

* Вычислительные методы в теории переноса. (Russian) [Computing methods in transport theory] Proceedings of the First All-Union Symposium on Computing Methods in Transport Theory (Novosibirsk, 1967). Edited by G. I. Marčuk. *Atomizdat, Moscow,* 1969. 247 *pp.* (Editors) 43 #5846

Proceedings of the All-Union Topological Conference

* Труды IV всесоюзной топологической конференции. (Russian) [Proceedings of the Fourth All-Union Topological Conference] Conference held in Tashkent, 1963. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. 207 *pp.* (Editors) 41 #986

Proceedings Ann Arbor Graph Theory Conference

* Proof techniques in graph theory. Proceedings of the Second Ann Arbor Graph Theory Conference, February 1968. Edited by Frank Harary. *Academic Press, New York-London,* 1969. xv + 330 *pp.* (Editors) 40 #4162

Proceedings Annual Allerton Conference on Circuit and System Theory

* Proceedings Third Annual Allerton Conference on Circuit and System Theory. Edited by M. E. Van Valkenburg. Conference held October 20, 21, 22, 1965, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory Group of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1965. xii + 929 *pp.* (Editors) 39 #6664

* Proceedings Fifth Annual Allerton Conference on Circuit and System Theory. Edited by J. B. Cruz, Jr. and T. N. Trick. Conference held October 4, 5, 6, 1967, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1967. xii + 814 *pp.* (Editors) 41 #8052

* Proceedings Sixth Annual Allerton Conference on Circuit and System Theory. Edited by T. N. Trick and R. T. Chien. Conference held October 2, 3, 4, 1968, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics, Engineers. *University of Illinois, Urbana, Ill.,* 1968. xiii + 902 *pp.* (Editors) 41 #8053

* Proceedings Seventh Annual Allerton Conference on Circuit and System Theory. Edited by A. H. Haddad, G. Metze and T. N. Trick. Conference held October 8-10, 1969, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory and Automatic Control Groups of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1969. xiv + 919 *pp.* (Editors) 41 #8054

Proc. Annual Conf.

* Труды ежегодной научной конференции, проходившей 20-22 мая 1965 г. (Russian) [Proceedings of the Annual Scientific Conference held May 20-22, 1965] Published as Issue No. 24 of Kabardino-Balkarsk. Gos. Univ. Učen. Zap. *Kabardono-Balkarsk. Gos. Univ., Nal'chik,* 1965. 367 *pp.* (Editors) 35 #2698

Proceedings of the Annual Reunion of Spanish Mathematicians

* Actas de la Primera Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the First Annual Reunion of Spanish Mathematicians] In collaboration with the Institute "Jorge Juan" of the Higher Council of Scientific Investigations. *Publicaciones de la Sección de Matemática de la Universidad de Madrid, Madrid,* 1961. 203 *pp.* (Editors) 31 #1158

* Actas de la Tercera Reunión de Matemáticos Españoles. (Spanish) [Proceedings of the Third Reunion of Spanish Mathematicians] Mathematical Seminar held at the University of Barcelona, October 22-24, 1962. *Univ. of Barcelona, Barcelona,* 1963. 290 *pp.* (Table of contents) 40 #2483

* Actas de la Quinta Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Fifth Annual Reunion of Spanish Mathematicians] Held at Valencia, October 29-31, 1964. *Publicaciones del Instituto "Jorge Juan" de Matemáticas, Madrid,* 1967. 294 *pp.* (Editors) 39 #3941

* Actas de la Séptima Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Seventh Annual Reunion of Spanish Mathematicians] Held at Valladolid, December 19-21, 1966. *Univ. of Valladolid, Valladolid,* 1967. 154 *pp.* (Editors) 40 #4044

* Actas de la Octava Reunión Anual de Matemáticos Españoles. (Spanish) [Proceedings of the Eighth Annual Reunion of Spanish Mathematicians] Held at Santiago, October 25-28, 1967. *Publicaciones de Instituto "Jorge Juan" de Matemáticas, Madrid,* 1969. 239 *pp.* (Editors) 40 #4045

Proceedings, Annual Science Conference

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 1: 1962, 1963, 1964. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1966. xii + 228 *pp.* (Editors) 34 #7312

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 2: 1965, 1966. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1969. xiv + 253 *pp.* (Editors) 40 #7055

Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, 4th. See Symposium on Mathematical Statistics and Probability, Proceedings.

Proceedings of the Berkeley Symposium on Mathematical Statistics and Probability, 5th

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 1. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 447 *pp.* (Editors) 35 #2303

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 2. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 483 *pp.* (Editors) 35 #2304

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. I: Statistics. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvii + 666 *pp.* (Editors) 35 #2383

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. III: Physical Sciences. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 324 *pp.* (1 *plate*) (Editors) 36 #6033

Proceedings of the Biennial Seminar of the Canadian Mathematical Congress

* Proceedings of the Twelfth Biennial Seminar of the Canadian Mathematical Congress on Time Series and Stochastic Processes; Convexity and Combinatorics. Edited by Ronald Pyke. *Canadian Mathematical Congress, Montreal, Que.,* 1970. xiv + 279 *pp.* (1 *plate*) (Editors) 42 #7458

Proceedings of the Biometric Society Symposium

* Random counts in scientific work. Vol. 1: Random counts in models and structures. Expanded from the Proceedings of the Biometric Society Symposium, Dallas, Tex., December, 1968 (American Association for the Advancement of Science Conference). Edited by G. P. Patil. *The Pennsylvania State University Press, University Park, Pa.-London,* 1970. viii + 268 *pp.* (I. J. Good) 44 #4802

Proc. Brazilian Math. Colloq.

* Atas do Terceiro Colóquio Brasileiro de Matemática. (Portuguese) [Proceedings of the Third Brazilian Mathematical Colloquium] Held at Fortaleza, July- 1961. Published as Vol. 5 (1962) of Summa Brasiliensis Mathematicae. *Conselho Nacional de Pesquisas, São Paulo,* 1962. 259 *pp.* (Editors) 34 #4080

* Atas do Quarto Colóquio Brasileiro de Matemática. (Portuguese) [Proceedings of the Fourth Brazilian Mathematical Colloquium] Held at Poços de Caldas, July 1-12, 1963. *Conselho Nacional de Pesquisas, São Paulo,* 1965. 84 *pp.* (Editors) 34 #4081

* Atas do Quinto Colóquio Brasileiro de Matemática. (Portuguese) [Proceedings of the Fifth Brazilian Mathematical Colloquium] Held at Poços de Caldas, July 4-24, 1965. *Conselho Nacional de Pesquisas, São Paulo,* 1965. iii + 152 *pp.* (Editors) 34 #4082

* Atas do Sexto Colóquio Brasileiro de Matemática. (Portuguese) [Proceedings of the Sixth Brazilian Mathematical Colloquium] Held at Poços de Caldas, July 2-22, 1967. *Conselho Nacional de Pesquisas, São Paulo,* 1970. *ii* + 40 *pp.* (Editors) 42 #1627

Proc. Calgary Internat. Conf.

* Combinatiorial structures and their applications. Proceedings of the Calgary International Conference on Combinatiorial Structures and their Applications held at the University of Calgary, Calgary, Alberta, Canada, June, 1969. Edited by Richard Guy, Haim Hanani, Norbert Sauer and Johanan Schönheim. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1970. xvi + 508 pp. (Editors) 41 #8247

Proceedings of the Carolina Conference on Holomorphic Mappings and Minimal Surfaces

* Proceedings of the Carolina Conference on Holomorphic Mappings and Minimal Surfaces (Chapel Hill, N. C., March 30-April 3, 1970). Edited by Donald A. Eisenman and Laird E. Taylor. *Department of Mathematics, University of North Carolina, Chapel Hill, N. C.,* 1970. iv + 107 *pp.* (Editors) 42 #6276

Proceedings of the Central Regional Union of Mathematical Departments

* Труды центрального зонального объединения математических кафедр. Вып. 1: Функциональный анализ и теория функций. (Russian) [Proceedings of the Central Regional Union of Mathematical Departments. No. 1: Functional analysis and function theory] *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1970. 148 *pp.* (Editors) 42 #4351

Proc. Chapel Hill Conf. on Combinatorial Mathematics and its Applications

* Proceedings of the Second Chapel Hill Conference on Combinatorial Mathematics and its Applications (Held at the University of North Carolina at Chapel Hill, May, 1970). *Univ. North Carolina, Chapel Hill, N. C.,* 1970. xi + 548 *pp.* (Editors) 42 #1664

Proc. Colloq. Abelian Groups

(See Fuchs, L.; Schmidt, E. T.; 29 #3524)

Proceedings of the Colloquium on Convexity

* Proceedings of the Colloquium on Convexity, Copenhagen, 1965. *Københavns Universitets Matematiske Institut, Copenhagen,* 1967. xii + 325 *pp.* (Editors) 35 #5271

Proceedings of the colloquium on information theory

* Proceedings of the colloquium on information theory. Vols. I, II. Edited by A. Rényi. *János Bolyai Mathematical Society, Budapest,* 1968. *Vol. I:* ii + *pp.* 1-282; *Vol. II:* ii + *pp.* 283-520. (From the editor's preface) 39 #8001

Proc. Colloq. Theory of Graphs

* Theory of Graphs. Proceedings of the Colloquium held at Tihany, Hungary, September, 1966. Edited by P. Erdős and G. Katona. *Academic Press, New York-London; Akadémiai Kiadó, Budapest,* 1968. 370 *pp.* (Editors) 38 #1016

Proceedings of the Colloquium on the Theory of Quasiconformal Mappings and its Generalizations

* Метрические вопросы теории функций и отображений. Вып. 1 (Доклады коллоквиума по теории квазиконформных отображений и ее обобщениям, Донецк центябрь 1968 г.). (Russian) [Metrical questions of the theory of functions and mappings. No. 1 (Proceedings of the Colloquium on the Theory of Quasiconformal Mappings and its Generalizations, Donetsk, September, 1968)] Academy of Sciences of the Ukrainian SSR. Donetsk Computing Center. *Izdat. "Naukova Dumka", Kiev,* 1969. 242 *pp.* (Editors) 43 #517

Proceedings of the Conference

* Differential equations and their applications. Equadiff II. Proceedings of the Conference held in Bratislava in September, 1966. Published in the Journal Acta Facultatis Rerum Naturalium Universitatis Comenianae Mathematica. Publ. XVII. *Slovenské Pedagogické Nakladatel'stvo, Bratislava,* 1967. 322 *pp.* (Editors) 40 #2938

* Вычислительная техника в инженерных и экономических расчетах. Вып. I (Материалы конференции) (Russian) [Computer technology in engineering and economic calculations. No. I (Proceedings of a conference)] Politechnical Institute of the Far East. State University of the Far East. Joint Computing Laboratory. *Dal'nevostočn Filial Sibirsk. Otdel. Akad. Nauk SSSR, Vladivostok,* 1968. 152 *pp. (errata inside back cover)* (Editors) 39 #5083

* Category theory, homology theory and their applications. I. Proceedings of the Conference held at the Seattle Research Center of Battelle Memorial Institute, June 24-July 19, 1968. Vol. One. Edited by P. Hilton. Lecture Notes in Mathematics, No. 86. *Springer-Verlag, Berlin-New York,* 1969. vi + 216 *pp.* (Editors) 39 #2831

* Category theory, homology theory and their applications. II. Proceedings of the Conference held at the Seattle Research Center of the Battelle Momorial Institute, June 24-July 19, 1968. Vol. Two. Edited by P. Hilton. Lecture Notes in Mathematics, No. 92. *Springer-Verlag, Berlin-New York,* 1969. v + 308 *pp.* 39 #2832

* Category theory, homology theory and their applications. III. Proceedings of the Conference held at the Seattle Research Center of the Battelle Memorial Institute, June 24-July 19, 1968. Vol. Three. Edited by P. Hilton. Lecture Notes in Mathematics, No. 99. *Springer-Verlag, Berlin-New York,* 1969. iv + 489 *pp.* (Editors) 39 #2833

* Combinatorial mathematics and its applications. Proceedings of the Conference held at the University of North Carolina at Chapel Hill, April 10-14, 1967. Edited by R. C. Dose and T. A. Dowling. The University of North Carolina Monograph Series in Probability and Statistics, No. 4. *The University of North Carolina Press, Chapel Hill, N. C.,* 1969. xvii + 602 *pp.* (Editors) 40 #1288

* Computing methods in optimization problems. 2. Papers presented at a Conference held at San Remo, Italy, September 9-13, 1968. Edited by Lotfi A. Zadeh, Lucien W. Newstadt and Z. V. Balakrishnan. *Academic Press, New York-London,* 1969. ix + 393 *pp. (loose errata)* (Editors) 41 #4783

* Computational problems in abstract algebra. Proceedings of a Conference held at Oxford under the auspices of the Science Research Council, Atlas Computer Laboratory, 29th August to 2nd September, 1967. Edited by John Leech. With a foreword by J. Howlett. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1970. x + 402 *pp.* (Editors) 40 #5374

* Functional analysis and related fields. Proceedings of a Conference in honor of Professor Marshall Stone, held at the University of Chicago, May, 1968. Edited by Felix E. Browden. *Springer-Verlag, New York-Berlin,* 1970. v + 241 *pp (1 plate)* (Editors) 42 #3532

* Set-valued mappings, selections and topological properties of 2^X. Proceedings of the Conference held at the State University of New York at Buffalo, May 8-10, 1969. Edited by W. M. Fleischman. Lecture Notes in Mathematics, Vol. 171. *Springer-Verlag, Berlin-New York,* 1970. x + 110 *pp.* (Editors) 42 #3763

* The Steenrod algebra and its applications: A conference to celebrate N. E. Steenrod's sixtieth birthday. Proceedings of the Conference held at the Battelle Memorial Institute, Columbus, Ohio, March 30th-April 4th, 1970. Edited by F. P. Peterson. Lecture Notes in Mathematics. Vol. 168. *Springer-Verlag, Berlin-New York,* 1970. viii + 317 *pp.* (Editors) 42 #5256

* Combinatorial mathematics and its applications. Proceedings of a Conference held at the Mathematical Institute, Oxford, from 7-10 July, 1969. Edited by D. J. A. Welsh. *Academic Press, London-New York,* 1971. x + 364 *pp.* (Editors) 43 #3128

Proceedings of the Conference on Abstract Spaces and Approximation

* Abstract spaces and approximation. Proceedings of the Conference held at the Mathematical Research Institute at Oberwolfach, Black Forest, July 18-27, 1968. Edited by P. L. Butzer and B. Szőkefalvi-Nagy. Internatioanl Series of Numerical Mathematics (ISNM), Vol. 10. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 423 *pp. (1 plate)* (Editors) 41 #4102

Proceedings of the Conference on Analytic Functions

Proceedings of the Fourth Conference on Analytic Functions (Łódź, September 1-7, 1966). *Ann. Polon. Math.* 20 (1968), 279-325. (From the secretary's introduction) 38 #959

Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). I, II. *Ann. Polon. Math.* 20 (1968), 311-322. (Ch. Pommerenke) 38 #3406

Problems form the Fourth Conference on Analytic Functions (Łódź, 1966). III. *Ann. Polon. Math.* 20 (1968), 323-325. (H. B. Laufer) 38 #3461

Proc. Conf. Arithmetical Algebraic Geometry

* Arithmetical algebraic geometry. (Proceedings of a Conference held at Purdue University, December 5-7, 1963). Edited by O. F. G. Schilling. *Harper & Row, Publishers, New York,* 1965. vii + 200 *pp.* (Editors) 33 #1308

Proceedings of the Conference on Categorical Algebra

* Proceedings of the Conference on Categorical Algebra, La Jolla, Calif., 1965. Edited by S. Ellenberg, D. K. Harrison, S. MacLane and H. Röhrl. *Springer-Verlag New York, Inc., New York,* 1966. viii + 562 *pp.* (Editors) 34 #2646

Proceedings of the Conference on Complex Analysis

* Proceedings of the Conference on Complex Analysis. Minneapolis, Minn., 1964. Edited by A. Aeppli, E. Calabi, H. Röhrl. *Springer-Verlag, Berlin-Heidelberg-New York,* 1965. vii + 308 *pp.* (Editors) 30 #4969

* Complex analysis. Proceedings of the Conference on Complex Analysis, Rice University, Houston, Tex., 13-15 April, 1967. Edited by H. L. Resnikoff and R. O. Wells, Jr. Rice University Studies, Vol. 54 (1968), no. 4. *William Marsh Rice University, Houston, Tex.,* 1968. (Editors) 38 #6095

* Complex analysis, 1969. Proceedings of the Conference on Complex Analysis, Rice University, 26-29 March, 1969. Edited by H. L. Resnikoff and R. O. Wells, Jr. Rice University Studies, Vol. 56 (1970), no. 2. *William Marsh Rice University, Houston, Tex.,* 1970. vi + 222 *pp.* (Editors) 42 #6275

Proc. Conf. Functional Analysis
* Functional analysis. Proceedings of a Conference held at the University of Californai, Irvine, Calif., March 28-April 1, 1966. Edited by Bernard R. Gelbaum. *Academic Press, London; Thompson Book Co., Washington, D. C.,* 1967. v + 247 *pp.* (Editors) 36 #1947

Proceedings of a Conference on the Future of Statistics
* The future of statistics. Proceedings of a Conference on the Future of Statistics held at the University of Wisconsin, Madison, Wisconsin, June, 1967. Edited by Donald G. Watts. *Academic Press, New York-London,* 1968. xvi + 315 *pp.* (Editors) 38 #2856

Proc. Conf. on Graph Theory
* The many facets of graph theory. Proceedings of the Conference held at Western Michigan University, Kalamazoo, Mich., October 31-November 2, 1968. Edited by G. Chartrand and S. F. Kapoor. Lecture Notes in Mathematics, No. 110. *Springer-Verlag, Berlin-New York,* 1969. viii + 290 *pp.* (Editors) 40 #4161

Proceedings of a Conference on Local Fields
* Proceedings of a Conference on Local Fields. NUFFIC Summer School held at Driebergen (The Netherlands) in 1966. Edited by T. A. Springer. *Springer-Verlag, Berlin-New York,* 1967. v + 214 *pp.* (Editors) 37 #3885

Proceedings of the Conference on Mathematical Methods of Solution of Problems in Nuclear Physics
* Материалы совещания по математическим методам решения задач ядерной физики (Дубна, 17-20 ноября 1964 г.). (Russian) [Proceedings of the conference on mathematical methods of solution of problems in nuclear physics (Dubna, November 17-20, 1964)] Joint Institute for Nuclear Studies, Report No. 2005. *Ob"edin. Inst. Jadernyh Issled. Dubna,* 1965. 118 *pp.* (Editors) 34 #2264

Proc. Conf. Mathematical Theory of Control
* Mathematical theory of control. Proceedings of a Conference held at the University of Southern California, Los Angeles, January 30-February 1, 1967. Edited by A. V. Balakrishnan and Lucien W. Neustadt. *Academic Press, New York-London,* 1967. xv + 459 *pp.* (Editors) 40 #5279

Proc. Conf. Math. Theory Elem. Particles
* Mathematical theory of elementary particles. Proceedings of the Conference on the Mathematical Theory of Elementary Particles, held at Endicott House, in Dedham, Mass., September 12-15, 1965. Edited by Roe Goodman and Irving Segal. *The M.I.T. Press, Cambridge, Mass.-London,* 1966. vii + 188 *pp.* (Editors) 34 #7134

Proceedings of the Conference on Monotone Mappings and Open Mappings
* The Proceedings of the First Conference on Monotone Mappings and Open Mappings (State University of New York at Binghamton, October 8-11, 1970). Edited by Louis F. McAuley. Dedicated to the memory of Gordon Thomas Whyburn. *State University of New York at Binghamton, Binghamton, N. Y.,* 1971. xxii + 422 *pp.* (Editors) 43 #1146

Proc. Conf. Orthogonal Expansions and their Continuous Analogues
* Orthogonal expansions and their continuous analogues. Proceedings of the Conference held at Southern Illinois University, Edwardsville, Ill., April 27-29, 1967. Edited by Deborah Tepper Haimo. *Southern Illinois University Press, Carbondale, Ill.; Feffer & Simons, Inc., London-Amsterdam,* 1968. xx + 307 *pp.* (Editors) 37 #6141

Proceedings Conference on Partial Differential Equations
* Atti del Convegno su le Equazioni alle Deriyate Parziali (Nervi, 25-27 Febbraio 1965). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1966. v + 144 *pp.* (Editors) 33 #7725
* Atti del Convegno sulle Equazioni alle Derivate Parziali (Bologna, 22-24 aprile 1967). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni "Oderisi", Gubbio,* 1967. iv + 188 *pp.* (Editors) 40 #6022

Proceedings of the Conference on Physics of Plasma and Problems of Controlled Thermonuclear Synthesis
* Физика плазмы и проблемы управляемого термоядерного синтеза. IV. (Russian) [Physics of plasma and problems of controlled thermonuclear synthesis. IV] Proceedings of the Fourth Conference on Controlled Thermonuclear Synthesis, May, 1963. *Naukova Dumka, Kiev,* 1965. 544 *pp.* 32 #951

Proceedings of Conference on Plates and Shells
* Труды конференции по теории пластин и оболочек (24-29 Октября 1960). (Russian) [Proceedings of the Conference on Plates and Shells (October 24-29, 1960)] Akademija Nauk SSSR. Kazanskiĭ Filial. *Izdat. Kazan. Univ., Kazan,* 1961. 427 *pp.* (Editors) 33 #6921

Proc. Conf. Systems and Computer Science
* Systems and computer science. Proceedings of a conference held at the University of Western Ontario, London, Ont., September 10-11, 1965. Edited by John F. Hart and Satoru Takasu. *University of Toronto Press, Toronto, Ont.,* 1967. xi + 249 *pp.* (Editors) 38 #1976

Proceedings of the Conference on Theoretical and Applied Magnetohydrodynamics
* Вопросы магнитной гидродинамики и динамики плазмы. II. (Russian) [Problems of magnetohydrodynamics and plasma dynamics. II] Proceedings of the second conference on theoretical and applied magnetohydrodynamics held in Riga, June 27-July 2, 1960. *Izdat. Akad. Nauk Latviĭsk. SSR, Riga,* 1962. 660 *pp.* (Editors) 31 #6501

Proc. Conf. on Theory and Appl. of Analysis in Function Space
* Proceedings of a Conference on the Theory and Applications of Analysis in Function Space. Dedham, Mass., June 9-13, 1963. Edited by William Ted Martin and Irving Segal. *The M.I.T. Press, Cambridge, Mass.,* 1964. vi + 218 *pp.* (Editors) 31 #1903

Proceedings of the Conference on Transformation Groups
* Proceedings of the Conference on Transformation Groups (New Orleans, 1967). Edited by Paul S. Mostert. *Springer-Verlag New York Inc., New York,* 1968. xiii + 457 *pp.* (Editors) 39 #4875

Proceedings of the Conference on Universal Algebra
* Proceedings of the Conference on Universal Algebra, October, 1969. Queen's Papers in Pure and Applied Mathematics, No. 25. *Queen's University, Kingston, Ont.,* 1970. v + 275 *pp.* (Editors) 41 #1625

Proceedings of the Conference of the Young Moldavian Scientists
* Материалы IV конференции молодых ученых Молдавии, сентябрь 1964 г. (Секция физико-математическая). (Russian) [Proceedings of the Fourth Conference of Young Moldavian Scientists, September, 1964 (Section on Physics and Mathematics)] Edited by V. A. Andrunakievič. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. 88 *pp.* (Editors) 34 #2394

Proceedings of the Conference of Young Saratov Scientists
* Труды молодых Ученых (Выпуск математический). (Russian) [Works of Young Scientists (Mathematical part)] Proceedings of the Conference of Young Saratov Scientists. *Izdat. Saratov. Univ., Saratov,* 1964. 123 *pp.* (Editors) 32 #1083

Proceedings Congress Internat. Federation Automatic Control
* Automatic and remote control. Vol. 1: Applications and components. Vol. 2: Theory. Proceedings of the Second Congress of the International Federation of Automatic Control (I.F.A.C.), Basle, Switzerland, 1963. Editor: Victor Broĭda. Co-editors: Derek H. Barlow and Otto Schäfer. *Butterworths, London; Oldenbourg, Munich,* 1964. *Vol.* 1, xli + 749 *pp. Vol.* 2, xli + 695 *pp.* (Editors) 32 #7267
* Теория непрерыных автоматических систем. (Russian) [Theory of continuous automatic systems] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 307 *pp.* (Editors) 32 #7268a
* Оптимальные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauku", Moscow,* 1965. 486 *pp.* (Editors) 32 #7268b
* Дискретные и самонастраивающиеся системы. (Russian) [Discrete and self-adjusting systems] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 501 *pp.* (Editors) 32 #7268c

Proceedings Congress of the Italian Mathematical Society
* Atti del Settimo Congresso dell'Unione Matematica Italiana. Tenuto a Genova nei Giorni 30 Settembre-5 Ottobre, 1963. *Edizioni Cremonese, Rome,* 1965. 415 *pp.* (4 *plates*) (Editors) 34 #5603

Proceedings Congress Theoretical and Applied Mechanics
* Proceedings of the Seventh Congress on Theoretical and Applied Mechanics, Bombay, 1961. *Indian Society of Theoretical and Applied Mechanics, Indian Institute of Technology, Kharagpur,* 1962. xi + 379 *pp.* (Editors) 31 #6406

Proc. Eastern Theoretical Physics Conf.
* Proceedings of the Eastern Theoretical Physics Conference, October 26th-27th, 1962. Edited by M. E. Rose. *Gordon and Breach Science Publishers, New York-London,* 1963. viii + 462 *pp.* (J. Mathews) 32 #5040

Proceedings of the Functional Analysis Week
* Proceedings of the Functional Analysis Week (March 3rd-7th, 1969). Various Publications Series, No. 8. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. iii + 76 *pp.* (Editors) 40 #4716

Proceedings of a Harvard Symposium on Digital Computers and Their Applications
* Proceedings of a Harvard symposium on digital computers and their applications, April 3-6, 1961. Annals of the Computational Laboratory of Harvard University, Vol. XXXI. *Harvard University Press, Cambridge, Mass.,* 1962. xiv + 332 *pp.* (Editors) 35 #5158

Proceedings, Heat Transfer and Fluid Mechanics Institute

* Proceedings of the 1963 Heat Transfer and Fluid Mechanics Institute. Held at the California Institute of Technology, Pasadena, California, June 12, 13, 14, 1963. Edited by Anatol Roshko, Bradford Sturtevant, and D. R. Bartz. *Stanford University Press, Stanford, Calif.*, 1963. ix + 288 *pp.* (Editors) 29 #4414

* Proceedings of the 1964 heat transfer and fluid mechanics institute. Held at University of California Berkeley, California, June 10, 11, 12, 1964. Edited by Warren H. Giedt and Salomon Levy. *Standord University Press, Standord, Calif.*, 1964. vii + 275 *pp.* (Editors) 31 #4271

Proceedings of the IBM Scientific Computing Symposium on Combinatorial Problems

* Proceedings of the IBM Scientific Computing Symposium on Combinatorial Problems. *IBM Data Processing Division, White Plains, N. Y.*, 1966. xvii + 261 *pp.* (Editors) 35 #2699

Proceedings of the IBM Scientific Computing Symposium on Control Theory and Applications

* Proceedings of the IBM Scientific Computing Symposium on Control Theory and Applications. *IBM Data Processing Division, White Plains, N. Y.*, 1966. xvii + 248 *pp.* (Editors) 35 #4032

Proceedings of the IBM Scientific Computing Symposium on Large-Scale Problems in Physics

* Proceedings of the IBM Scientific Computing Symposium on Large-Scale Problems in Physics. Held at Yorktown Heights, N. Y., December 9-11, 1963. *IBM Data Processing Division, White Plains, N. Y.*, 1965. xvii + 252 *pp.* (Editors) 40 #4037

Proc. IEEE Sympos. on Adaptive Processes

* Proceedings of 1969 IEEE Symposium on Adaptive Processes (8th): Decision and control (The Pennsylvania State University, November 17-19, 1969). 69 C 52-AC. *Institute of Electrical and Electronics Engineers, New York*, 1969. iv + 122 *pp. (not consecutively paged)* (Editors) 41 #9637

Proceedings of IFIP Congress

* Information processing 68. Proceedings of IFIP Congress 1968. Vol. 1: Mathematics, software. Organized by the International Federation for Information Processing, Edinburgh, 5-10 August 1968. Edited by A. J. H. Morrell. *North-Holland Publishing Co., Amsterdam*, 1969. *Vol.* 1: xxvi + *pp.* 1-610. (Editors) 40 #7056a

* Information processing 68. Proceedings of IFIP Congress 1968. Vol. 2: Hardware, applications. Organized by the International Federation for Information Processing, Edinburgh, 5-10 August 1968. Edited by A. J. H. Morrell. *North-Holland Publishing Co., Amsterdam*, 1969. *Vol.* 2: xi + *pp.* 611-1650. (Editors) 40 #7056b

Proc. Instructional Conf.

* Algebraic number theory. Proceedings of an instructional conference organized by the London Mathematical Society (a NATO Advanced Study Institute) with the support of the International Mathematical Union. Edited by J. W. S. Cassels and A. Fröhlich. *Academic Press, London; Thompson Book Co., Inc., Washington, D. C.*, 1967. xviii + 366 *pp.* (Editors) 35 #6500

* Алгебраическая теория чисел. (Russian) [Algebraic number theory] Edited by J. W. S. Cassels and A. Fröhlich. Translated from the English by A. A. Bel′skiĭ, A. Ju. Geronimus, M. E. Novodvorskiĭ and V. M. Fišman. Edited by I. I. Pjateckiĭ-Šapiro. *Izdat. "Mir", Moscow*, 1969. 483 *pp.* (Editors) 41 #174

Proceedings of an International Colloquium

* Mathematical logic and foundations of set theory. Proceedings of an International Colloquium held under the auspices of the Israel Academy of Sciences and Humanities, Jerusalem, 11-14 November 1968. Edited by Yehoshua Bar-Hillel. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam-London*, 1970. v + 145 *pp.* (Editors) 42 #1643

Proceedings International Colloquium on Algebraic Geometry

* Actas del Colóquio Internacional sobre Geometría Algebraica (Madrid, 9-15 Septiembre 1965). (Spanish) [Proceedings of the International Colloquium on Algebraic Geometry] *Instituto Jorge Juan del C. S. I. C. y la International Mathematical Union, Madrid*, 1966. 190 *pp.* (Editors) 33 #4054

Proceedings of the International Colloquium on Differential Geometry

* Actas del Segundo Colóquio Internacional sobre Geometría Diferencial (Santiago, 25-28 Octubre 1967). (Spanish) [Proceedings of the Second International Colloquium on Differential Geometry (Santiago, 25-28 October, 1967)] Congresos y Coloquios de la Universidad de Santiago de Compostela. *University of Santiago de Compostela, Department of Geometry and Topology of the Faculty of Sciences, Santiago de Compostela; International Mathematical Union*, 1968. iv + 64 *pp.* (1 *plate*) (Editors) 40 #6382

Proceedings of the International Colloquium in the Philosophy of Mathematics

* Problems in the philosophy of mathematics. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 1. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam*, 1967. xv + 241 *pp.* (Editors) 35 #5

* The problem of inductive logic. Proceedings of the International Colloquium in the Philosophy of Science, London, 1965, Vol. 2. Edited by Imre Lakatos. *North-Holland Publishing Co., Amsterdam*, 1968. viii + 417 *pp.* (Editors) 37 #3886

Proceedings International Conference on Analytic Functions

* Современные проблемы теории аналитических функций. (Russian) [Contemporary problems in the theory of analytic functions] International Conference on the Theory of Analytic Functions, Erevan, 1965. Edited by M. A. Lavrent′ev. *Izdat. "Nauka", Moscow*, 1966. 362 *pp.* (Editors) 34 #2833

Proceedings Internat. Conf. on Dynamic Stability of Structures

* Dynamic stability of structures. Proceedings of an International Conference held at Northwestern University, Evanston, Illinois, October 18-20, 1965. Edited by George Herrmann. *Pergamon Press, Oxford-New York-Toronto, Ont.*, 1967. ix + 313 *pp.* (11 *plates*) (Editors) 34 #2395

Proceedings International Conference on Elementary Particles

* Proceedings of the Sienna International Conference on Elementary Particles (30 Sept.-5 Oct. 1963). Vol. I. Parallel sessions. *Società Italiana di Fisica, Bologna*, 1963. xviii + 692 *pp.* (1 *plate)* (A. C. T. Wu) 32 #7035a

* Proceedings of the Sienna International Conference on Elementary Particles (30 Sept.-5 Oct. 1963). Vol. II. Plenary sessions. *Società Italiana di Fisica, Bologna*, 1963. vi + 190 *pp.* (A. C. T. Wu) 32 #7035b

Proceedings of the International Conference on Functional Analysis and Related Topics

* Proceedings of the International Conference on Functional Analysis and Related Topics (Tokyo, April, 1969). Organized by the Mathematical Society of Japan under the co-sponsorship of the International Mathematical Union and the Science Council of Japan. *University of Tokyo Press, Tokyo*, 1970. xxxiii + 425 *pp.* (Editors) 41 #6642

Proceedings of the International Conference on Numerical Methods in Fluid Dynamics

* Proceedings of the Second International Conference on Numeric Methods in Fluid Dynamics (September 15-19, 1970, University of California, Berkeley). Edited by Maurice Holt. Lecture Notes in Physics, Vol. 8. *Springer-Verlag, Berlin-New York*, 1971. ix + 462 *pp.* (Editors) 43 #4216

Proc. Internat. Conf. on Several Complex Variables

* Several complex variables. I. Maryland 1970. Proceedings of the International Mathematical Conference, held at College Park, April 6-17, 1970. Edited by John Horváth. Lecture Notes in Mathematics, Vol. 155. *Springer-Verlag, Berlin-New York*, 1970. iv + 214 *pp.* (Editors) 42 #2904

Proceedings of the International Conference on the Theory of Groups

* Proceedings of the International Conference on the Theory of Groups. Held at the Australian National University, Canberra, August 10-20, 1965. Edited by L. G. Kovács and B. H. Neumann. *Gordon and Breach Science Publishers, New York-London-Paris*, 1967. xvii + 397 *pp.* (Editors) 35 #6732

Proceedings of the International Congress of Cybernetics

* Progress of cybernetics. Vol. 1: Main papers. The meaning of cybernetics. Neuro- and biocybernetics. Vol. 2: Cybernetics and industry. Social and economic consequences. Cybernetics and artifacts. Edited by J. Rose. Proceedings of the First International Congress of Cybernetics, London, 1969. *Gordon and Breach Science Publishers, London-New York-Paris*, 1970. *Vol.* 1: xiv + 521 *pp.* *Vol.* 2: xiv + *pp.* 523-959. (Editors) 42 #4226

Proceedings of the International Congress for Logic, Methodology and Philosophy of Science

* Logic, methodology and philosophy of science. Proceedings of the 1960 International Congress. Edited by Ernest Nagel, Patrick Suppes and Alfred Tarski. *Stanford University Press, Stanford, Calif.*, 1962. ix + 661 *pp.* (Editors) 29 #3347

* Logic, methodology and philosophy of science. Proceedings of the 1964 International Congress. Edited by Yehoshua Bar-Hillel. *North-Holland Publishing Co., Amsterdam*, 1965. viii + 440 *pp.* (Editors) 34 #2426

* Logic, methodology and philosophy of science. III. Proceedin of the Third International Congress for Logic, Methodology and Philosophy of Science, Amsterdam, 1967. Edited by B. van Rootsela and J. F. Staal. *North-Holland Publishing Co., Amsterdam*, 1968. xiii + 533 + i *pp.* (Editors) 40 #14

Proc. Internat. Congr. Math.

* Труды международного конгресса математиков (Москва, 1966). (Russian) [Proceedings of the International Congress of Mathematicians (Moscow, 1966)] Edited by I. G. Petrovskiĭ. *Izdat. "Mir", Moscow*, 1968. 726 *pp.* (Editors) 38 #960

Proceedings of the International Congress on Programming and Control

* Proceedings of the First International Congress on Programmin and Control (USAF Academy, Colo., 1965). *Society for Industrial and Applied Mathematics, Philadelphia, Pa.*, 1966. iv + 261 *pp.* (Editors) 41 #6645

Proceedings of the Internationale Hochschulwochen für Kernphysik

* Weak interactions and higher symmetries. Proceedings of the Third Internationale Hochschulwochen für Kernphysik 1964 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 24th February-7th March 1964. Edited by Paul Urban. Acta Physica Austriaca, Supplementum I. *Springer-Verlag, Vienna-New York,* 1964. iv + 255 *pp.* (P. Roman) 34 #2288

Proceedings of the Internationale Universitätswochen für Kernphysik

* Quantum electrodynamics. Proceedings of the IV. Internationale Universitätswochen für Kernphysik 1965 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 25 February-10 March 1965. Edited by Paul Urban. Acta Phys. Austriaca, Suppl. II. *Springer-Verlag, Vienna-New York,* 1965. ii + 245 *pp.* (Editors) 33 #2120

* Elementary particle theories. Proceedings of the V. Internationale Universitätswochen für Kernphysik 1966 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 24th February-9th March 1966. Edited by Paul Urban. Acta Phys. Austriaca, Suppl. III. *Springer-Verlag New York, Inc., New York,* 1966. iv + 463 *pp.* iv + 463 *pp.* (Table of contents) 34 #3888

* Particle physics. Proceedings of the VIII Internationale Universitätswochen für Kernphysik 1969 der Karl-Franzens-Universität Graz, at Schladming (Steiermark), 24th February-8th March 1969. Edited by Paul Urban. Acta Physica Austriaca, Supplementum VI. *Springer-Verlag, Vienna-New York,* 1969. x + 550 *pp. (loose errata)* (Table of contents) 42 #2737

Proc. Internat. Res. Semin., Statist. Lab.

* Bernoulli (1713), Bayes (1763), Laplace (1813). Anniversary volume. Proceedings of an International Research Seminar, Statistical Laboratory. University of California, Berkeley, 1963. Edited by Jerzy Neyman and Lucien M. LeCam. *Springer-Verlag, New York,* 1965. ix + 262 *pp.* (Table of contents) 33 #1911

Proc. Internat. School of Physics "Enrico Fermi"

* Dispersion and absorption of sound by molecular processes. Proceedings of the International School of Physics "Enrico Fermi", Course XXVII, Varenna on Lake Como, Villa Monastero, August 6-August 18, 1962. Edited by D. Sette. *Academic Press, New York-London,* 1963. xi + 443 *pp.* (1 *plate*) (Editors) 29 #4483

* Argomenti scelti sulla fisica delle particelle elementari-Selected topics on elementary particle physics. Edited by M. Conversi. Italian Physical Society. Proceedings of the International School of Physics "Enrico Fermi", Course XXVI. *Academic Press, New York-London,* 1963. xi + 294 *pp.* (Table of contents) 32 #8831

* Dispersion relations and their connection with causality. Proceedings of the International School of Physics "Enrico Fermi", Course XXIX, Varenna on Lake Como, Villa Monastero, 15th July-3rd August 1963. Edited by E. P. Wigner. *Academic Press, New York-London,* 1964. xvi + 256 *pp.* (1 *plate*) (P. Roman) 29 #4475

* Advanced plasma theory. Proceedings of the International School of Physics "Enrico Fermi", Course XXV, Varenna on Lake Como, Villa Monastero, July 9-July 21, 1962. Edited by M. N. Rosenbluth. *Academic Press, New York-London,* 1964. xii + 266 *pp.* (1 *plate*) (Editors) 30 #910

Proc. Internat. Sem. Elementary Particle Theory

* Topics in elementary particle theory. Proceedings of the International Seminar on Elementary Particle Theory (Varna, Bulgaria, May 6-19, 1968). *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (Editors) 40 #3802

Proceedings of an International Summer Institute

* Cosmological models. Proceedings of an International Summer Institute held at Lisbon, September, 1963. *Instituto Gulbenkian de Ciência. Centro de Cálculo Cientifico, Lisbon,* 1964. xxxiv + 231 *pp.* (Editors) 34 #3984

* Theory of Distributions. Proceedings of an International Summer Institute held in Lisbon, September, 1964. *Instituto Gulbenkian de Ciência Centro de Cálculo Cientifico, Lisbon,* 1964. xxviii + 390 *pp.* (Editors) 35 #5930

Proceedings of the International Summer School on Mathematical Models of Action and Reaction

* Differential games and related topics. Proceedings of the International Summer School on Mathematical Models of Action and Reaction, held in Varenna, Italy, June 15-27, 1970. Edited by H. W. Kuhn and G. P. Szegö. *North-Holland Publishing Co., Amsterdam-London; American Elsevier Publishing Co., Inc., New York,* 1971. x + 489 *pp.* (Editors) 42 #8939

Proc. Internat. Summer School on Numerical Methods

* Современные численные методы. Вып. 1. Вычислительные методы линейной алгебры. (Russian) [Modern numerical methods. No. 1. Computational methods of linear algebra] Proceedings of the International Summer School on Numerical Methods, Kiev, 1966. Edited by A. A. Abramov. The Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Vycisl. Centr Akad. Nauk SSSR, Moscow,* 1968. 102 *pp.* (Editors) 39 #5050

Proceedings of the International Symposium

* Приложения теории функций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963). Том I. Механика твердого тела. (Russian) [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963). Vol. I. Mechanics of solids] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 452 *pp.* (Editors) 32 #4889a

* Приложения теории функций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963). Том II. Механика жидкости и газа, математические методы. (Russian) [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963). Vol. II. Fluid and gas mechanics, mathematical methods] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 478 *pp.* (Editors) 32 #4889b

* The theory of models. Proceedings of the 1963 International Symposium at Berkeley. Edited by J. W. Addison, Leon Henkin, Alfred Tarski. *North-Holland Publishing Co., Amsterdam,* 1965. xv + 494 *pp.* (1 *plate*) (Editors) 33 #3878

* Probability and information theory. Proceedings of the International Symposium at McMaster University, Canada, April, 1968. Edited by M. Behara, K. Krickeberg, and J. Wolfowitz. Lecture Notes in Mathematics, Vol. 89. *Springer-Verlag, Berlin-New York,* 1969. iv + 256 *pp.* (Editors) 42 #1249

Proceedings of the International Symposium on the Applications of Model Theory to Algebra, Analysis, and Probability

* Applications of model theory to algebra, analysis, and probability. Edited by W. A. J. Luxemburg. *Holt, Rinehart and Winston, New York-Montreal, Que.-London,* 1969. vii + 307 *pp.* (Editors) 38 #3143

Proceedings of the International Symposium on Atomic and Molecular Quantum Theory

* Proceedings of the International Symposium on Atomic and Molecular Quantum Theory, dedicated to Professor Robert Sanderson Mulliken. Symposium held at Sanibel Island, Florida, on 18-23 January 1965. *J. Chem. Phys.* 43 (1965), *no.* 10 *(part* 2), S1-S272. (1 *plate*) (Editors) 32 #2124

Proceedings International Symposium on Classical and Contagious Discrete Distributions

* Classical and contagious discrete distributions. Proceedings of the International Symposium held at McGill University, Montreal, Que., Canada, August 15-August 20, 1963, with the support of the Canadian Mathematical Congress, McGill University, and the National Research Council of Canada. Edited by Ganapati P. Patil. *Statistical Publishing Society, Calcutta (distributed by Pergamon Press, Oxford),* 1965. xiv + 552 *pp.* (Editors) 35 #2384

Proceedings of an International Symposium Differential Equations and Dynamical Systems

* Differential equations and dynamical systems. Proceedings of an International Symposium held at the University of Puerto Rico, Mayaguez, Puerto Rico, December 27-30, 1965. Edited by Jack K. Hale and Joseph P. LaSalle. *Academic Press, New York-London,* 1967. xvii + 544 *pp.* (1 *plate*) (Editors) 36 #3

Proceedings International Symposium on Function Algebras

* Function algebras. Proceedings of an International Symposium on Function Algebras held at Tulane University, 1965. Edited by Frank T. Birtel. *Scott, Foresman and Co., Chicago, Ill.,* 1966. ix + 357 *pp.* (Editors) 33 #1691

Proc. Internat. Sympos. Multivariate Analysis

* Multivariate analysis. Proceedings of an International Symposium held in Dayton, Ohio, June 14-19, 1965. Edited by Paruchuri R. Krishnaiah. *Academic Press, New York-London,* 1966. xix + 592 *pp.* (1 *plate*) (Editors) 34 #8513

* Multivariate analysis. II. Proceedings of the Second International Symposium on Multivariate Analysis held at Wright State University, Dayton, Ohio, June 17-22, 1968. Edited by Paruchuri R. Krishnaiah. *Academic Press, New York-London,* 1969. xx + 696 *pp.* (Editors) 40 #5069

Proceedings of the International Symposium on Nonparametric Techniques

* Nonparametric techniques in statistical inference. Proceedings of the First International Symposium on Nonparametric Techniques held at Indiana University, June, 1969. Edited by Madan Lal Puri. *Cambridge University Press, London-New York,* 1970. xiv + 623 *pp.* (Editors) 42 #8632

Proc. Internat. Sympos. Rarefied Gas Dynamics

* Rarefied gas dynamics. Vol. I. Proceedings of the Fourth International Symposium on Rarefied Gas Dynamics, held at the University of Toronto, 1964. Edited by J. H. de Leeuw. *Academic Press, New York-London,* 1965. xiv + 700 *pp.* (Editors) 34 #1013a

* Rarefied gas dynamics. Vol. II. Proceedings of the Fourth International Symposium on Rarefied Gas Dynamics, held at the Institute for Aerospace Studies, University of Toronto, 1964. Edited by J. H. de Leeuw. *Academic Press, New York-London,* 1966. xv + 608 *pp.* (Editors) 34 #1013b

Proceedings of the International Symposium on Topology and its Applications

* Proceedings of the International Symposium on Topology and its Applications, Herceg-Novi, 25-31. 8. 1968, Yugoslavia. (English and Russian) Edited by Đuro R. Kurepa. *Savez Društava Matematičara, Fizičara I Astronoma, Belgrade,* 1969. 356 *pp.* (Editors) 42 #2416

Proceedings of the Interuniversity Conference on the History of Natural Science

* История и методология естественных наук. Вып. V. Математика. (Russian) [History and methodology of natural sciences. No. V. Mathematics] Proceedings of the Second Interuniversity Conference on the History of Natural Sciences held at Moscow University May 27-June 1, 1963. *Izdat. Moskov. Univ., Moscow,* 1966. 275 *pp.* (Editors) 33 #3865

Proceedings of the Interuniversity Scientific Conference of the Far East on Physics and Mathematics

* Материалы шестой межвузовской физико-математической научной конференции Дальнего Востока. Том 3: Дифференциальные и интегральные уравнения. (Russian) [Proceedings of the Sixth Interuniversity Scientific Conference of the Far East on Physics and Mathematics. Vol. 3: Differential and integral equations] *Habarovsk. Gosudarstv. Ped. Inst., Khabarovsk,* 1967. 247 *pp.* (Editors) 40 #7060

Proceedings of the Kanpur Topological Conference

* General topology and its relations to modern analysis and algebra. III. Proceedings of the Kanpur Topological Conference, 1968. Scientific Editors: J. Novák, M. Venkataraman, G. T. Whyburn. Editors: S. P. Franklin, Z. Frolík, V. Koutník. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague; Academic Press, New York-London,* 1971. 332 *pp.* (1 *plate*) (Editors) 43 #5474

Proceedings of Katata Conference on the Theory of Partial Differential Equations and on the Theory of Complex Manifolds

* Proceedings of Katata conference on the theory of partial differential equations and on the theory of complex manifolds. Held at Katata, Japan, September 18-22, 1966. *Research Institute for Mathematical Sciences of Kyoto University, Kyoto,* 1966. vi + 107 *pp.* (Editors) 36 #1252

Proceedings of the Kazakh Interuniversity Scientific Conference on Mathematics and Mechanics

* Труды первой Казахстанской межвузовской научной конференции по математике и механике (17-22 Октября 1963 года). (Russian) [Proceedings of the First Kazakh Interuniversity Scientific Conference on Mathematics and Mechanics (October 17-22, 1963)] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1965. 284 *pp.* (Editors) 33 #4

* Труды второй Казахстанской межвузовской научной конференции по матетатике и механике (17-22 сентября 1965 г.). (Russian) [Proceedings of the Second Kazakhstan Interuniversity Scientific Conference on Mathematics and Mechanics (September 17-22, 1965)] Department of Higher and Secondary Education of the Kazakh SSR. S. M. Kirov Kazakh State University. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 261 *pp.* *(errata insert)* (Editors) 40 #5379

Proceedings of Liverpool Singularities—Symposium

* Proceedings of Liverpool Singularities—Symposium. I (1969/70). Edited by C. T. C. Wall. Lecture Notes in Mathematics, Vol. 192. *Springer-Verlag, Berlin-New York,* 1971. iv + 319 *pp.* (Editors) 43 #4055

Proceedings Logic Colloquium

* Formal systems and recursive functions. Edited by J. N. Crossley and M. A. E. Dummett. Proceedings of the Eighth Logic Colloquium, Oxford, July 1963. *North-Holland Publishing Co., Amsterdam,* 1965. ix + 320 *pp.* (Editors) 31 #4722

* Contributions to mathematical logic (Proceedings of the Logic Colloquium, Hannover, 1966). Edited by H. Arnold Schmidt, Kurt Schutte and H.-J. Thiele. *North-Holland Publishing Co., Amsterdam,* 1968. x + 298 *pp.* (Editors) 38 #3120

Proceedings of the Louisiana Conference on Combinatorics, Graph Theory and Computing

* Proceedings of the Louisiana Conference on Combinatorics, Graph Theory and Computing (Louisiana State University, Baton Rouge, March 1-5, 1970). Edited by R. C. Mullin, K. B. Reid and D. P. Roselle. *Louisiana State University, Baton Rouge, La.,* 1970. vi + 464 *pp.* (Editors) 42 #1665

Proceedings of the Mathematical Summer School

* Труды шестой математической летней школы: Теория вероятностей и математической статистике (Кацивели, 1968). (Russian) [Proceedings of the Sixth Mathematical Summer School: Probability Theory and Mathematical Statistics (Kaciveli, 1968)] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 326 *pp.* (Editors) 42 #6889

Proc. Midwestern Conf. on Ergodic Theory

* Contributions to ergodic theory and probability. Proceedings of the First Midwestern Conference on Ergodic Theory, held at the Ohio State University, March 27-30, 1970. Organized by Louis Sucheston. Lecture Notes in Mathematics, Vol. 160. *Springer-Verlag, Berlin-New York,* 1970. vii + 278 *pp.* (Editors) 42 #3256

Proc. Moscow Conf. Young Scientists

* Физика, математика и механика. (Russian) [Physics, mathematics and mechanics] Proceedings of the First Moscow Conference of Young Scientists. *Izdat. "Nauka", Moscow,* 1968. 231 *pp.* (Editors) 39 #3942

Proceedings of the National Conferences of Mathematicians in Institutions of Higher Learning in the Georgian SSR

* Труды I и II Республиканских Конференций Математиков Высших Учебных Заведений Грузинской ССР (20 Октября 1960 года; 23-25 Ноября 1962 года). (Russian) [Proceedings of the First and Second National Conferences of Mathematicians in Institutions of Higher Learning in the Georgian SSR (October 20, 1960 and November 23-25, 1962)] *Izdat. "Codna", Tbilisi,* 1964. 294 *pp.* (Editors) 32 #1082

Proceedings of NATO Advanced Study Institute

* Theory and applications of monotone operators. Edited by Aldo Ghizzetti. Proceeding of a NATO Advanced Study Institute held in Venice, Italy, June 17-30, 1968. *Edizioni "Oderisi", Gubbio,* 1969. vi + 343 *pp.* (Editors) 41 #5987

Proceedings of the New York City Graph Theory Conference

* Recent trends in graph theory. Proceedings of the First New York City Graph Theory Conference held on June 11, 12, and 13, 1970. Sponsored by St. John's University, Jamaica, New York. Edited by M. Capobianco, J. B. Frechen and M. Krolik. Lecture Notes in Mathematics, Vol. 186. *Springer-Verlag, Berlin-New York,* 1971. vi + 219 *pp.* (Editors) 43 #3155

Proceedings of the Nuffic Summer School on Manifolds

* Manifolds—Amsterdam 1970. Proceedings of the Nuffic Summer School on Manifolds, Amsterdam, August 17-29, 1970. Edited by Nicolaas H. Kuiper. Lecture Notes in Mathematics, Vol. 197. *Springer-Verlag, Berlin-New York,* 1971. iv + 231 *pp.* (Editors) 43 #4041

Proceedings of Oberwolfach Conference on Approximation Theory

* On approximation theory. (Proceedings of the Conference held in the Mathematical Research Institute at Oberwolfach, Black Forest, August 4-10, 1963.) Edited by P. L. Butzer and J. Korevaar. International Series of Numerical Mathematics. Vol. 5. *Birkhauser Verlag, Basel-Stuttgart,* 1964. xvi + 261 *pp.* (1 *plate*) (Editors) 31 #2537

Proceedings of the Pacific International Summer School in Physics

* Recent developments in particle physics. Proceedings of the First Pacific International Summer School in Physics, Honolulu, Hawaii, August, 1965. Edited by Michael J. Moravcsik. Nuclear Physics, Vol. 3. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. vii + 263 *pp.* (Editors) 35 #2561

Proceedings of the Physics Session, International School of Nonlinear Mathematics and Physics

* Topics in nonlinear physics. Proceedings of the Physics Session, International School of Nonlinear Mathematics and Physics. A NATO Advanced Study Institute, Max-Planck-Institute for Physics and Astrophysics (Munich, 1966). Edited by Norman J. Zabusky. *Springer-Verlag New York Inc., New York,* 1968. xxx + 724 *pp.* (Editors) 39 #1251

Proceedings of the Prague Topological Symposium

* General topology and its relations to modern analysis and algebra. II. Proceedings of the Second Prague Topological Symposium, 1966. Scientific editor, J. Novák. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 365 *pp.* (Editors) 38 #654

Proceedings of the Projective Geometry Conference at the University of Illinois

* Proceedings of the projective geometry conference at the University of Illinois, Summer, 1967. *University of Illinois at Chicago Circle, Chicago, Ill.,* 1967. v + 164 *pp.* (Editors) 36 #3615

Proceedings and Reports of Scientific Conference of the Faculties of Physics, Mathematics and Natural Science

* Доклады и сообщения научных конференций физико-математического и естественного факультетов. (Russian) [Proceedings and reports of a scientific conference of the Faculties of Physics, Mathematics and Natural Science] Udmurt State Pedagogical Institute. *Izdat. "Udmurtija", Izhevsk,* 1965. 144 *pp.* (Editors) 36 #1253

Proceedings of the Republican Conference of the Mathematicians of Byelorussia, First

* Труды I республиканской конференции математиков Белоруссии. (Russian) [Proc. of the First Republican Conference of the Mathematicians of Byelorussia] *Izdat. "Vysšaja Skola", Minsk,* 1965. 501 *pp.* (Editors) 36 #4938

Proceedings of the Riga Seminar on Algebra

* Труды рижского алгебраического семинара. (Russian) [Proceedings of the Riga Seminar on Algebra] *Latv. Gosudarstv. Univ., Riga,* 1969. 310 *pp.* (Editors) 40 #4046

Proceedings of the Scandinavian Congress

* Proceedings of the Fifteenth Scandinavian Congress, Oslo, 1968. Edited by K. E. Aubert and W. Ljunggren. Lecture Notes in Mathematics, Vol. 118. *Springer-Verlag, Berlin-New York,* 1970. iv + 162 *pp.* (Editors) 40 #5377

Proceedings of a Scientific Conference

* Итоги исследований по математике и механике за 50 лет 1917-1967. (Russian) [Research advances in mathematics and mechanics during the 50 years 1917-1967] Proceedings of a Scientific Conference (Tomsk, 1967). *Izdat. Tomsk. Univ., Tomsk,* 1967 (1968). 150 *pp.* (Editors) 41 #1487

* Применение математических методов в геологии (Материалы научной конференции, Алма-Ата, 7-10 октября 1968 года). (Russian) [Application of mathematical methods in geology (Proceedings of a Scientific Conference, Alma-Ata, October 7-10, 1968)] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 413 *pp.* (Editors) 41 #5136

Proceedings of the Scientific Conference of the Department of Higher Mathematics

* Материалы седьмой научной конференции кафедры высшей математики (Фрунзе, 27-30 марта 1962 г.). (Russian) [Proceedings of the Seventh Scientific Conference of the Department of Higher Mathematics (Frunze, March 27-30, 1962)] *Frunz. Politehn. Inst., Frunze,* 1963. 152 *pp.* (Editors) 40 #1225

Proceedings of the Scientific Conference of Mathematical Departments of Pedagogical Institutes of the Volga Region

* Труды первой научной конференции математических кафедр педагогических институтов Поволжья (23-26 мая 1960 года). (Russian) [Proceedings of the First Scientific Conference of Mathematical Departments of Pedagogical Institutes of the Volga Region (May 23-26, 1960)] *Kuĭbyšev. Gosudarstv. Ped. Inst., Kuybyshev,* 1961. 264 *pp.* (Editors) 33 #1192

Proceedings of the Scientific Conference of the Professorial Teaching Staff of the Faculty of Physics and Mathematics

* Материалы XI-й научной конференции профессорско-преподавательского состава физико-математического факультета (секция математики).] *Kirgiz. Gosudarstv. Univ., Frunze,* 1963. 95 *pp.* (Editors) 41 #2

Proceedings of the Scientific Conference sponsored by the Fluid Mechanics Division IPFT ASP

* Proceedings of the Sixth Scientific Conference sponsored by the Fluid Mechanics Division IPFT ASP held in Zakopane, September 2-9, 1963. *Published in Archiwum Mechaniki Stosowanej* 16 (1964), *pp.* 557-860. (Editors) 32 #1978

Proceedings of the Scientific Conference on Physics and Mathematics of the Novokuzneck Pedagogical Institut

* Доклады VI научной конференции Новокузнецкого педагогического института по физико-математическим наукам. (Russian) [Proceedings of the Sixth Scientific Conference on Physics and Mathematics of the Novokuzneck Pedagogical Institute] *Novokuzneck. Gos. Ped. Inst., Novokuzneck,* 1963. 128 *pp.* (Editors) 40 #1235

Proceedings of the Scientific Theoretical Conference of the Professorial and Instructional Staff of the Kuybyshev Pedagogical Institute

* Материалы научно-теоретической конференции профессорско-преподавательсково состава Куйбышевского педагогического института, посвященной 50-летию Октября. (Russian) [Proceedings of the scientific theoretical conference of the professorial and instructional staff of the Kuybyshev Pedagogical Institute, dedicated to the 50th anniversary of the October Revolution] *Kuĭbyšev. Gosudarstv. Ped. Inst., Kuybyshev,* 1968. 50 *pp.* (Editors) 40 #5378

Proceedings of a Seminar

* Вопросы теории ЕЦММ (Труды Семинара). Вып. 2. (Russian) [Problems in the theory of electronic computing machines (Proc. Seminar). No. 2] Academy of Sciences of the Ukrainian SSR. Scientific Council on Cybernetics. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 103 *pp.* (Editors) 39 #2363

* Информационные методы в системах управления, измерений и контроля (Доклады семинара, ыладивосток, 1968 г.). *Dal'nevostocnyi Filial Sibirsk. Otdel. Akad. Nauk SSSR. Vladivostok* 1968. 644 *pp.* (Editors) 39 #3902

* Математические методы в специализированной вычислительной технике (Труды семинара, Киев, 1967/68 гг.). Вып. 1. (Russian) [Mathematical methods in specialized computer technology (Proceedings of a Seminar, Kiev, 1967/68). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 123 *pp.* (Editors) 39 #5035

* Теория оптимальных решений (Труды семинара, Киев, 1968 г.) Вып. 2. (Russian) [Theory of optimal solutions (Proceedings of a Seminar, Kiev, 1968). No. 2] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 106 *pp.* (Editors) 39 #5203

* Математическое обеспечение ЭЦВМ и эффективная организация вычислительного процесса (Труды семинара, Киев, 1968 г.). Вып 2. [Mathematical provisioning of electronic digital computers and effective organization of the computing process (Proceedings of a Seminar, Kiev, 1968). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 110 *pp.* (Editors) 39 #6548

* Вопросы теории электронных цифровых математических машин (Труды семинара, Киев, 1966/67 гг.). Вып. 1. (Russian) [Problems in the theory of electronic digital computers (Proceedings of a Seminar, Kiev, 1966/67). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 107 *pp.* (Editors) 39 #6549

* Алгоритмизация производственных процессов (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Algorithmization of industrial processes (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 126 *pp.* (Editors) 39 #6616

* Теория оптимальных решений (Труды семинара, Киев. 1968 г.) Вып. 1. (Russian) [Theory of optimal solutions (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 91 *pp.* (Editors) 39 #7925

* Сложные системы управления (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 113 *pp.* (Editors) 39 #7964

* Основные и типовые программы для вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Basic and standard programs for computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 93 *pp.* (Editors) 40 #1057

* Теория автоматического управления (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Theory of automatic control (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 104 *pp.* (Editors) 40 #1150

* Алгоритмизация производственных процессов (Труды семинара, Киев, 1968 г.). Вып 2. (Russian) [Algorithmization of industrial processes (Proceedings of a Seminar, Kiev, 1968). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 105 *pp.* (Editors) 39 #6617

* Методы математического моделирования и теория электрических цепей (Труды семинара, Киев, 1968 г.). Вып. 3. (Russian) [Methods of mathematical simulation and the theory of electrical circuits (Proceedings of a Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 92 *pp.* (Editors) 39 #6663

* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 4. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 4] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 114 *pp.* (Editors) 39 #6685

* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Труды семинара, Киев, 1968 г.). Вып. 5. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Proceedings of a Seminar, Kiev, 1968). No. 5] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 111 *pp.* (Editors) 39 #6686

* Применение математических методов в экономических исследованиях и планировании (Труды семинара, Киев, 1968 г.). Вып. 3. (Russian) [Application of mathematical methods in economic research and planning (Proceedings of a Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 113 *pp.* (Editors) 39 #7926

Proc. Sem. Cybernetics

* Исследование устройств передачи информации (Материалы семинара по кибернетике. Вып. 22). (Russian) [Studies of the apparatus of information transmission (Proc. Sem. Cybernetics. No. 22)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 35 *pp.* (Editors) 43 #4547

* Телеавтоматические системы массового обслуживания (Материалы семинара по кибернитике. Вып. 23-24). (Russian) [Teleautomatic systems of queueing (Proc. Sem. Cybernetics. No. 23-24)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 67 *pp.* (Editors) 43 #5639

Proceedings of the Seminar on Differential and Integral Equations

* Труды семинара по дифференциальным и интегравьным уравнениям. Вып. I. (Russian) [Proceedings of the Seminar on Differential and Integral Equations. No. I.] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1969. 350 *pp.* (Editors) 42 #3333

Proceedings of the Seminar on Functional Analysis

* Труды семинара по функциональному анализу (Киев, 1968 г.). Вып. 1. (Russian) [Proceedings of the Seminar on Functional Analysis (Kiev, 1968). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. 276 *pp.* (Editors) 40 #3251

Proceedings of the Seminar on Methods of Mathematical Simulation and the Theory of Electrical Circuits

* Математическое моделирование и теория электрических цепей. Вып. 7. (Russian) [Mathematical simulation and the theory of electrical circuits. No. 7] Proceedings of the Seminar on Methods of Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1970. 316 *pp.* (Editors) 42 #4350

Proceedings of the Southeastern Conference on Theoretical and Applied Mechanics

* Developments in theoretical and applied mechanics. Vol. 4. Proceedings of the Fourth Southeastern Conference on Theoretical and Applied Mechanics; Sponsored by Tulane University; Held in New Orleans, La., February 29th-March 1st, 1968. Edited by Daniel Frederick. *Pergamon Press, Oxford-New York-Toronto, Ont.*, 1970. xiii + 637 *pp.* (Editors) 41 #4871

Proceedings of the Steklov Institute of Mathematics

* Труды Математического института имени В. А. Стеклова. LXXIX. Работы по математической статистике и теории вероятностей. (Russian) [Proceedings of the Steklov Mathematical Institute, Vol. 79. Articles on mathematical statistics and the theory of probability] Edited by Ju. V. Linnik. *Izdat. "Nauka", Moscow*, 1965. 236 *pp. (errata insert)* (Editors) 34 #5113a

* Proceedings of the Steklov Institute of Mathematics, Number 79 (1965). Articles on mathematical statistics and the theory of probability. Edited by Ju. V. Linnik. Translated from the Russian by Lisa Rosenblatt. *American Mathematical Society, Providence, R. I.*, 1966. iv + 259 *pp.* (Editors) 34 #5113b

* Sequences of convergence for series. Translated from the Russian by G. Piranian. Proceedings of the Steklov Institute of Mathematics, No. 86 (1965). *American Mathematical Society, Providence, R. I.*, 1967. v + 85 *pp.* (Editors) 35 #4661

* Proceedings of the Steklov Institute of Mathematics. No. 83 (1965): Boundary value problems of mathematical physics. III. Edited by O. A. Ladyženskaja. Translated from the Russian by A. Jablonskiĭ. *American Mathematical Society, Providence, R. I.*, 1967. iv + 184 *pp.* (Editors) 35 #1966
(See also Postnikov, A. G., 35 #5409)

* Difference methods for solutions of problems of mathematical physics. I. Edited by N. N. Janenko. Translated from the Russian by J. M. Danskin. Proceedings of the Steklov Institute of Mathematics, No. 74 (1966). *American Mathematical Society, Providence, R. I.*, 1967. viii + 188 *pp.* (Editors) 35 #6325

* Two-dimensional manifolds of bounded curvature. Edited by A. D. Aleksandrov and V. A. Zalgaller. Translated from the Russian by J. M. Danskin. Proceedings of the Steklov Institute of Mathematics, No. 76 (1965). *American Mathematical Society, Providence, R. I.*, 1967. iv + 183 *pp.* (Editors) 35 #6052

* Proceedings of the Steklov Institute of Mathematics, Number 78 (1965). Extremal properties of polynomials. Edited by S. B. Stečkin. Translated from the Russian by R. P. Boas. *American Mathematical Society, Providence, R. I.*, 1967. iii + 90 *pp.* (Editors) 35 #6501

* Algebraic surfaces. By the members of the seminar of I. R. Šafarevič. Translated from the Russian by Susan Walker. Translation edited, with supplementary material, by K. Kodaira and D. C. Spencer. Proceedings of the Steklov Institute of Mathematics, No. 75 (1965). *American Mathematical Society, Providence, R. I.*, 1967. ix + 281 *pp.* (Editors) 35 #6685
(See also Adjan, S. I., 36 #1520)

* Proceedings of the Steklov Institute of Mathematics, No. 77 (1965): Theory and applications of differentiable functions of several variables. Edited by S. M. Nikol'skiĭ. Translated from the Russian by G. W. Hedstrom. *American Mathematical Society, Providence, R. I.*, 1967. iv + 212 *pp.* (Editors) 36 #2453

* Proceedings of the Steklov Institute of Mathematics. No. 80 (1965): Algebraic number theory and representations. Edited by D. K. Faddeev. Translated from the Russian by T. S. Bhanu Murthy. *American Mathematical Society, Providence, R. I.*, 1968. iv + 215 *pp.* (Editors) 37 #9
(See also Keldyš, L. V., 38 #696)

* Proceedings of the Steklov Institute of Mathematics, No. 84 (1964): Numerical methods and inequalities in function spaces. Edited by V. N. Faddeeva. Translated from the Russian by R. H. Roper. *American Mathematical Society, Providence, R. I.*, 1968. v + 194 *pp.* (Editors) 36 #6246

* Proceedings of the Steklov Institute of Mathematics, No. 89 (1967): Theory and applications of differentiable functions of several variables. Part II. Edited by S. M. Nikol'skiĭ. Translated from the Russian by Jack Burlak. *American Mathematical Society, Providence, R. I.*, 1968. iv + 290 *pp.* (Editors) 37 #6142

* Proceedings of the Steklov Institute of Mathematics, No. 92 (1966): Boundary value problems of mathematical physics. IV. Edited by O. O. Ładyženskaja. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.*, 1968. iv + 339 *pp.* (Editors) 37 #6143

* Proceedings of the Steklov Institute of Mathematics, No. 94 (1968): Extremal problems of the geometric theory of functions. Edited by Ju. E. Alenicyn. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.*, 1969. vi + 167 *pp.* (Editors) 39 #2963
(See also Anosov, D. V., 39 #3527)

* Proceedings of the Steklov Institute of Mathematics, No. 91 (1967): Boundary problems for differential equations. Edited by V. P. Mihaĭlov. Translated from the Russian by Andrew Yablonsky. *American Mathematical Society, Providence, R. I.*, 1968. vi + 178 *pp.* (Editors) 40 #4047

* Proceedings of the Steklov Institute of Mathematics, No. 88 (1967): Approximation of functions in the mean. Edited by S. B. Stečkin. Translated from the Russian by R. P. Boas and H. R. Jaschke. *American Mathematical Society, Providence, R. I.*, 1969. iii + 138 *pp.* (Editors) 40 #5380

* Proceedings of the Steklov Institute of Mathematics, No. 93 (1967): Problems in the constructive trend in mathematics. IV. Edited by V. P. Orevkov and M. A. Šanin. Translated from the Russian. *American Mathematical Society, Providence, R. I.*, 1970. viii + 329 *pp.* (1 *plate*) (Table of contents) 41 #1539

* Proceedings of the Steklov Institute of Mathematics, No. 103 (1967): Boundary problems for differential equations. II. Edited by V. P. Mihaĭlov. Translated from the Russian by T. Garrett. *American Mathematical Society, Providence, R. I.*, 1970. viii + 213 *pp.* (Editors) 41 #6643; erratum 42, p. 1824

* Proceedings of the Steklov Institute of Mathematics, No. 102 (1967): Boundary value problems of mathematical physics. V. Edited by O. A. Ladyženskaja. Translated from the Russian by V. I. Filippenko. *American Mathematical Society, Providence, R. I.*, 1970. v + 185 *pp.* (Editors) 42 #1628

* Proceedings of the Steklov Institute of Mathematics, No. 96 (1968): Automatic programming, numerical methods and functional analysis. Edited by V. N. Faddeeva. Translated from the Russian by Leo Ebner. *American Mathematical Society, Providence, R. I.*, 1970. vi + 323 *pp.* (Editors) 42 #1629

* Proceedings of the Steklov Institute of Mathematics, No. 98 (1968): The calculi of symbolic logic. I. Edited by V. P. Orevkov. Translated from the Russian by A. Yablonsky. *American Mathematical Society, Providence, R. I.*, 1971. iv + 229 *pp.* (Editors) 43 #4620

Proceedings of the Stony Brook Conference

* Advances in the theory of Riemann surfaces. Proceedings of the 1969 Stony Brook Conference. Edited by Lars V. Ahlfors, Lipman Bers, Hershel M. Farkas, Robert C. Gunning, Irwin Kra and Harry E. Rauch. Annals of Mathematics Studies, No. 66. *Princeton University Press, Princeton, N. J.; University of Tokyo Press, Tokyo*, 1971. viii + 420 *pp.* (Editors) 43 #5023

Proceedings of Summer Conference

* Intuitionism and proof theory (Proceedings of the Summer Conference at Buffalo, N. Y., 1968). Edited by A. Kino, J. Myhill and R. E. Vesley. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam-London*, 1970. viii + 516 *pp.* (Editors) 42 #5774

Proceedings of the Summer School and Colloquium in Mathematical Logic

* Logic Colloquium "69. Proceedings of the Summer School and Colloquium in Mathematical Logic, Manchester, August 1969. Edited by R. O. Gandy and C. E. M. Yates. Studies in Logic and the Foundations of Mathematics, Vol. 61. *North-Holland Publishing Co., Amsterdam-London*, 1971. xiv + 451 *pp.* (Editors) 42 #7479

Proceedings of the Summer School in Logic

* Proceedings of the Summer School in Logic, Leeds, 1967 (N.A.T. Advanced Study Institute. Meeting of the Association for Symbolic Logic). Edited by M. L. Löb. Lecture Notes in Mathematics, No. 70. *Springer-Verlag, Berlin-New York*, 1968. iii + 331 *pp.* (Editors) 38 #1995

Proc. Summer School Mathematical Logic and Tenth Logic Colloq.

* Sets, models and recursion theory. Proceedings of the Summer School in Mathematical Logic and Tenth Logic Colloquium, Leicester, August-September, 1965. Edited by John N. Crossley. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam*, 1967. v + 331 *pp.* (Editors) 36 #24

Proceedings of the Summer School on Theoretical Physics

* Letnia Szkoła Fyziki Teoretycznej (Dolina Chochołowska, 1963). (Polish) [Summer School on Theoretical Physics held at Dolina Chochołowska, 1963. *Zeszyty Nauk. Uniw. Jagiello.* 104 *Prace Fiz. zeszyt* 3 (1965), 1-156. (1 *plate*) (Editors) 34 #7313

Proc. Summer Seminar

(See Bers, Lipman; John, Fritz; Schechter, Martin, 29 #346)

Proceedings Summer Seminar in Applied Mathematics

* Space mathematics. Part 1. Edited by J. Barkley Rosser., Lectures in Applied Mathematics, Vol. 5. *American Mathematical Society, Providence, R. I.*, 1966. xvi + 296 *pp.* (Editors) 34 #2397a

* Space mathematics. Part 2. Edited by J. Barkley Rosser. Lectutes in Applied Mathematics, Vol. 6. *American Mathematical Society, Providence, R. I.*, 1966. v + 258 *pp.* (Editors) 34 #2397b

* Space mathematics. Part 3. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 7. *American Mathematical Society, Providence, R. I.*, 1966. v + 315 *pp.* (Editors) 34 #2397c

Proceedings of the Summer Seminar in Fluid Mechanics

* Proceedings of the Summer Seminar in Fluid Mechanics (May 1967). Edited by P. L. Bhatnagar. *Indian Institute of Science, Bangalore*, 1968. viii + 482 *pp.* (Editors) 38 #2988

Proceedings of the Summer Seminar on the Mathematics of the Decision Sciences

* Mathematics of the decision sciences, Parts 1, 2. Edited by George B. Dantzig and Arthur F. Veinott, Jr. Lectures in Applied Mathematics, Vols. 11, 12. *American Mathematical Society, Providence, R. I.*, 1968. *Part* 1: ix + 429 *pp.* *Part* 2: vii + 443 *pp.* (Editors) 38 #958

Proceedings of Symposia in Applied Mathematics

* Proceedings of Symposia in Applied Mathematics. Vol. XII: Structure of language and its mathematical aspects. Edited by Roman Jakobson. *American Mathematical Society, Providence, R. I.,* 1964. vi + 279 *pp.* (Editors) 34 #8898

* Proceedings of Symposia in Applied Mathematics. Vol. XVII: Applications of nonlinear partial differential equations in mathematical physics. Edited by R. Finn. *American Mathematical Society, Providence, R. I.,* 1965. vii + 234 *pp.* (Editors) 31 #1790

* Proceedings of Symposia in Applied Mathematics. Vol. XVIII: Magneto-fluid and plasma dynamics. Edited by Harold Grad. *American Mathematical Society, Providence, R. I.,* 1967. vii + 293 *pp.* (Editors) 35 #2543

* Proceedings of Symposia in Applied Mathematics. Vol. XIX: Mathematical aspects of computer science. Edited by J. T. Schwartz. *American Mathematical Society, Providence, R. I.,* 1967. v + 224 *pp.* (Editors) 38 #2975

Proceedings of Symposia on Mathematical Biology

* Some mathematical questions in biology. Proceedings of the Second Symposium on Mathematical Biology held in New York, December, 1967; and the Third Symposium on Mathematical Biology held in Dallas, December, 1968. Foreword by Murray Gerstenhaber. Lectures on Mathematics in the Life Science. Vol. 2. *American Mathematical Society, Providence, R. I.,* 1970. vii + 156 *pp.* (S. Levin) 44 #3721

Proceedings of Symposia in Pure Mathematics

* Proceedings of Symposia in Pure Mathematics. Vol. VIII: Theory of numbers. *American Mathematical Society, Providence, R. I.,* 1965. vii + 214 *pp.* (1 *plate*) (Editors) 30 #3858

* Proceedings of Symposia in Pure Mathematics. Vol. IX: Algebraic groups and discontinuous subgroups. Held at the University of Colorado, Boulder, Colo., July 5-August 6, 1965. Edited by Armand Borel and George D. Mostow. *American Mathematical Society, Providence, R. I.,* 1966. vii + 426 *pp.* (Editors) 34 #2381

* Proceedings of Symposia in Pure Mathematics. Vol. X: Singular integrals. Proceedings of the Symposium in Pure Mathematics of the American Mathematical Society held at the University of Chicago, Chicago, Ill., April 20-22, 1966. Edited by Alberto P. Calderón. *American Mathematical Society, Providence, R. I.,* 1967. vi + 375 *pp.* (1 *plate*) (Editors) 37 #6144

* Entire functions and related parts of analysis. Edited by Jacob Korevaar, S. S. Chern, Leon Ehrenpreis, W. H. J. Fuchs and L. A. Rubel. Proceedings of Symposia in Pure Mathematics. Vol. XI. *American Mathematical Society, Providence, R. I.,* 1968. vi + 554 *pp.* (Editors) 38 #1258

* Number theory. Proceedings of Symposia in Pure Mathematics, Vol. XII. Edited by William J. LeVeque and Ernst G. Straus. *American Mathematical Society, Providence, R. I.,* 1969. v + 98 *pp.* *(loose errata)* (Editors) 40 #2592

* Applications of categorical algebra. Proceedings of Symposia in Pure Mathematics, Vol. XVII. Edited by Alex Heller. *American Mathematical Society, Providence, R. I.,* 1970. v + 231 *pp.* (Editors) 40 #5372

* Global analysis. Proceedings of Symposia in Pure Mathematics, Vols. XIV-XVI. Edited by Shiing-shen Chern and Stephen Smale. *American Mathematical Society, Providence, R. I.,* 1970. *Vol. XIV:* v + 367 *pp. Vol. XV:* v + 307 *pp. Vol. XVI:* v + 250 *pp.* (Editors) 41 #7686

* Nonlinear functional analysis. Proceedings of Symposia in Pure Mathematics, Vol. VXIII, Part 1. Edited by Felix E. Browder. *American Mathematical Society, Providence, R. I.,* 1970. v + 296 *pp.* (Editors) 42 #1625

* Axiomatic set theory. Proceedings of the Symposium in Pure Mathematics of the American Mathematical Society held at the University of California, Los Angeles, Calif., July 10-August 5, 1967. Edited by Dana S. Scott. Proceedings of Symposia in Pure Mathematics, Vol. XIII, Part 1. *American Mathematical Society, Providence, R. I.,* 1971. v + 474 *pp.* (Editors) 43 #38

Proceedings of the Symposium

* Theory of graphs and its applications. Proceedings of the Symposium held in Smolenice in June 1963. Edited by Miroslav Fiedler. *Publishing House of the Czechoslovak Academy of Sciences, Prague,* 1964. 234 *pp.* (Editors) 30 #2479

* Вычислительные системы (Труды симпозиума, г. Новосибирск, Май, 1966 г.). (Russian) [Proceedings of a Symposium, Novosibirsk, May, 1966)] *Izdat. "Nauka" Sibirsk. Otdel., Novosibirsk,* 1967. 286 *pp.* (Editors) 44 #3536

* Contributions to extension theory of topological structures. Proceedings of the Symposium held in Berlin, August 14-19, 1967. Edited by J. Flachsmeyer, H. Poppe and F. Terpe. *VEB Deutscher Verlag der Wissenschaften, Berlin,* 1969. 279 *pp.* *(loose errata)* (Editors) 39 #6268

* Approximations with special emphasis on spline functions. Proceedings of a Symposium Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, May 5-7, 1969. Edited by I. J. Schoenberg. Publication No. 23 of the Mathematics Research Center, United States Army, The University of Wisconsin. *Academic Press, New York-London,* 1969. xi + 488 *pp.* (Editors) 40 #4638

* Constructive aspects of the fundamental theorem of algebra. Proceedings of a Symposium Conducted at the IBM Research Laboratory, Zürich-Rüschlikon, June 5-7, 1967. Edited by Bruno Dejon and Peter Henrici. *Wiley-Interscience [A Division of John Wiley & Sons, Ltd.], London-New York-Sydney,* 1969. vii + 337 *pp.* (Editors) 40 #6769

* Approximation theory. Proceedings of a Symposium held at Lancaster, July, 1969. Edited by A. Talbot. *Academic Press, London-New York,* 1970. viii + 356 *pp.* (Editors) 41 #8879

* Nonlinear programming. Proceedings of a Symposium Conducted by the Mathematics Research Center, The University of Wisconsin, Madison, May 4-6, 1970. Edited by J. B. Rosen, O. L. Mangasarian and K. Ritter. Publication No. 25 of the Mathematics Research Center, The University of Wisconsin. *Academic Press, New York-London,* 1970. xii + 490 *pp.* (Editors) 42 #7288

* Periodic orbits, stability and resonances. Proceedings of a Symposium conducted by the University of São Paulo, the Technical Institute of Aeronautics of São José dos Campos, and the National Observatory of Rio de Janeiro, at the University of São Paulo, São Paulo, Brasil, 4-12 September, 1969. Edited by G. E. O. Giacaglia. *D. Reidel Publishing Co., Dordrecht,* 1970. xiv + 530 *pp.* (Editors) 42 #8753

Proceedings of the Symposium on Abelian Groups. See Topics in Abelian groups.

Proceedings of the Symposium in Analysis

* Proceedings of the Symposium in Analysis, Queen's University, June, 1967. Queen' Papers in Pure and Applied Mathematics, No. 10. *Queen's University, Kingston, Ont.,* 1967. v + 250 *pp.* *(mimeographed)* (Editors) 36 #4939

Proceedings of a Symposium in Applied Math. of AMS-SIAM

* Transport theory. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in New York City, April 5-8, 1967. Edited by Richard Bellman, Garrett Birkhoff and Ibrahim Abu-Shumays. SIAM-AMS Proceedings, Vol. I. *American Mathematical Society, Providence, R. I.,* 1969. vii + 327 *pp.* (Editors) 40 #7062

* Numerical solution of field problems in continuum physics. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in Durham, North Carolina, April 5-6, 1968. Edited by Garrett Birkhoff and Richard S. Varga. SIAM-AMS Proceedings, Vol. II. *American Mathematical Society, Providence, R. I.,* 1970. viii + 280 *pp.* (Editors) 40 #7059

Proceedings of the Symposium on Approximation of Functions

* Approximation of functions. Proceedings of the Symposium on Approximation of Functions, General Motors Research Laboratories, Warren, Michigan, 1964. Edited by Henry L. Garabedian. *Elsevier Publishing Co., Amsterdam-London-New York,* 1965. ix + 220 *pp.* (Editors) 32 #2789

Proceedings of the Symposium on Cavitation in Real Liquids

* Cavitation in real liquids. Proceedings of the Symposium on Cavitation in Real Liquids, General Motors Research Laboratories, Warren, Michigan, 1962. Edited by Robert Davies. *Elsevier Publ. Co., Amsterdam-London-New York,* 1964. ix + 189 *pp.* (Editors) 30 #1683

Proceedings of the Symposium on Congestion Theory

* Proceedings of the Symposium on Congestion Theory. Held at the University of North Carolina at Chapel Hill, August 24-26, 1964. Edited by Walter L. Smith and William E. Wilkinson. *The University of North Carolina Press, Chapel Hill, N. C.,* 1965. xv + 457 *pp.* (Editors) 32 #7223

Proceedings of the Symposium on Empirical Bayes Estimation and Computing in Statistics

* Proceedings of the Symposium on Empirical Bayes Estimation and Computing in Statistics. Held at the Department of Mathematics, Texas Tech. University, Lubbock, Texas, August, 1969. Edited by Thomas A. Atchison and Harry F. Martz, Jr. Mathematics Series, No. 6. *The Texas Tech. Press, Texas Tech. University, Lubbock, Tex.,* 1970. iv + 255 *pp.* (Editors) 41 #4730

Proceedings of a Symposium on Error Correcting Codes

* Error correcting codes. Proceedings of a symposium conducted by the Mathematics Research Center, United States Army at the University of Wisconsin, Madison, Wis., May 6-8, 1968. *John Wiley & Sons, Inc., New York-London-Sydney,* 1968. xi + 231 *pp.* (Editors) 38 #3071

Proceedings of a Symposium on Functional Analysis

* Functional analysis. Proceedings of a Symposium held at Monterey, Calif., October 1969. Edited by Carroll O. Wilde. *Academic Press, New York-London,* 1970. vii + 162 *pp.* (Editors) 41 #4178

Proc. Sympos. General Topology

* General topology and its relations to modern analysis and algebra. II. Proceedings of the Second Prague Topological Symposium, 1966. Scientific editor, J. Novák. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 365 *pp.* (Editors) 38 #654

Proceedings of the Symposium on Generalized Networks

* Proceedings of the Symposium on Generalized Networks (New York, N. Y., April 12, 13, 14, 1966). Edited by Jerome Fox. Microwave Research Institute Symposia Series, Vol. XVI. *Polytechnic Press of the Polytechnic Institute of Brooklyn, Brooklyn, N. Y.,* 1966. xxxiii + 789 *pp.* (Editors) 43 #5994

Proc. Sympos. on Inequalities

* Inequalities. Proceedings of a Symposium held at Wright-Patterson Air Force Base, Ohio, August 19-27, 1965. Edited by Oved Shisha. *Academic Press, New York-London,* 1967. xiv + 360 *pp.* (Editors) 36 #1251

* Inequalities. II. Proceedings of the Second Symposium on Inequalities Held at the United States Air Force Academy, Colorado, August 14-22, 1967. Edited by Oved Shisha. *Academic Press, New York-London,* 1970. xvi + 439 *pp.* (Editors) 41 #8188

Proc. Sympos. London School of Economics

* Introduction to system programming. Proceedings of a Symposium held at the London School of Economics, July, 1962. A.P.I.C. Studies in Data Processing, No. 4. Edited by Peter Wegner. *Published for the Automatic Programming Information Centre, Brighton College of Technology by Academic Press, London-New York,* 1964. x + 316 *pp.* (1 *insert*) (D. Vaida) 30 #1634

Proc. Sympos. Markov Processes and Potential Theory

* Markov processes and potential theory. Proceedings of a Symposium conducted by the Mathematics Research Center and the United States Army at the University of Wisconsin, Madison, Wis., May 1-3, 1967. Edited by Joshua Chover. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 235 *pp.* (Editors) 37 #3647

Proceedings of the Symposium on Mathematical Biology

* Some mathematical problems in biology. Proceedings of the Symposium on Mathematical Biology, Washington, D. C., December, 1966. Foreward by Murray Gerstenhaber. Lectures on Mathematics in the Life Sciences. *American Mathematical Society, Providence, R. I.,* 1968. vi + 117 *pp.* (Editors) 38 #4160

Proceedings of the Symposium on Mathematical Theory of Automata

* Proceedings of the Symposium on Mathematical Theory of Automata. New York, N. Y., April 24, 25, 26, 1962. Microwave Research Institute Symposia Series, Vol. XII. *Polytechnic Press of Polytechnic Inst. of Brooklyn, Brooklyn, N. Y.,* 1963. xix + 640 *pp.* (A. P. Eršov) 30 #5895

Proc. Sympos. Math. Res. Center, U. S. Army, Univ. Wisconsin

* Error in digital computation. Vol. 1. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, October 5-7, 1964). Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney,* 1965. xi + 324 *pp.* (Editors) 30 #5510

* Error in digital computation. Vol. 2. Proceedings of a Symposium conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin (Madison, Wis., April 26-28, 1965). Edited by Louis B. Rall. *John Wiley & Sons, Inc., New York-London-Sydney,* 1965. x + 288 *pp.* (Editors) 32 #1926

Proc. Sympos. Non-equilibrium Thermodynamics

* Non-equilibrium thermodynamics, variational techniques and stability. Edited by Russell J. Donnelly, Robert Herman and Ilya Prigogine. Proceedings of a symposium held at the University of Chicago, May 17-19, 1965. *The University of Chicago Press, Chicago, Ill.-London,* 1966. ix + 313 *pp.* (Editors) 33 #938

Proceedings Symposium Numerical Solution Partial Differential Equations

* Numerical solution of partial differential equations. Proceedings of a Symposium held at the University of Maryland, College Park, Maryland, May 3-8, 1965. Edited by James H. Bramble. *Academic Press, New York-London,* 1966. xiv + 373 *pp.* (Editors) 33 #7220

* Numerical solution of partial differential equations. II (SYNSPADE 1970). Proceedings of the Second Symposium, held at the University of Maryland, College Park, Md., May 11-15, 1970. Edited by Bert Hubbard. *Academic Press, New York-London,* 1971. ix + 649 *pp.* (Editors) 42 #8711

Proc. Sympos. Recent Adv. Optim. Techniques

* Recent advances in optimization techniques. Proceedings of the Symposium on Recent Advances in Optimization Techniques, held at Carnegie Institute of Technology, Pittsburgh, Pennsylvania, April 21-23, 1965. Edited by Abraham Lavi and Thomas P. Vogl. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. xiii + 656 *pp.* (From the editors' preface) 33 #6876

Proceedings of a Symposium on Semigroups

* Semigroups. Proceedings of a Symposium on Semigroups held at Wayne State University, Detroit, Mich., June 27-29, 1968. Edited by Karl W. Folley. *Academic Press, New York-London,* 1969. xi + 277 *pp.* (Editors) 41 #3637

Proceedings of the Symposium on Sparse Matrices and their Applications

* Proceedings of the Symposium on Sparse Matrices and their Applications (IBM Watson Research Center, Yorktown Heights, N. Y., September 9-10, 1968). Edited by Ralph A. Willoughby. RA 1 No. 11707. *IBM Corp. Thomas J. Watson Research Center, Yorktown Heights, New York,* 1969. xxii + 184 *pp.* (Editors) 39 #1106

Proceedings of the Symposium on System Theory

* Proceedings of the Symposium on System Theory. New York, N. Y., April 20, 21, 22, 1965. Microwave Research Institute Symposia Series, Vol. XV. *Polytechnic Press, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. (distributed by Interscience Publishers [A Division of John Wiley & Sons, Inc.], New York-London),* 1965. xxviii + 380 *pp.* (Editors) 41 #5077

Proceedings of the Symposium on Theory and Application of Generalized Inverses of Matrices

* Proceedings of the Symposium on Theory and Application of Generalized Inverses of Matrices. Held at the Department of Mathematics, Texas Technological College, Lubbock, Texas, March 1968. Edited by Thomas L. Boullion and Patrick L. Odell. Mathematics Series, No. 4. *Texas Tech. Press, Lubbock, Tex.,* 1968. iii + 315 *pp.* (Editors) 40 #1402

Proc. Sympos. and Workshop

* Applications of Walsh functions. 1970 Proceedings (31 March-3 April): Symposium and Workshop, held at Naval Research Laboratory, Washington, D. C. Edited by C. A. Bass. *Naval Research Laboratory, Washington, D. C.; University of Maryland, College Park, Md.,* 1970. viii + 274 *pp.* (Editors) 42 #1623

Proceedings Systems Symposium

* Views on general systems theory. Proceedings of the Second Systems Symposium at Case Institute of Technology (1963). Edited by Mihajlo D. Mesarović. *John Wiley & Sons, Inc., New York-London-Sydney,* 1964. xvii + 178 *pp.* (Editors) 34 #8861

Proceedings of a Technical Sciences Conference on the Advances of Scientific Research

* Доклады научно-технической конференции по итогам научно-исследовательских работ за 1966-1967 годы. Секция математическая. (Russian) [Proceedings of a Technical Sciences Conference on the Advances of Scientific Research during the Years 1966-1967. Mathematical Section] *Moskov. Ènerget. Institut. Moscow,* 1967. 224 *pp.* (Editors) 39 #2556

Proc. (Trudy) P. N. Lebedev Phys. Inst.

* Programming and computer techniques in experimental physics. Edited by D. V. Skobel′cyn. Translated from the Russian. Proceedings (Trudy) of the P. N. Lebedev Physics Institute, Vol. 45. *Consultants Bureau, New York-London,* 1970. vi + 126 *pp.* (Editors) 41 #9464

Proceedings United States-Japan Seminar on Differential and Functional Equations

* Proceedings United States-Japan Seminar on Differential and Functional Equations. Held at the University of Minnesota, Minneapolis, Minn., June 26-30, 1967. Edited by William A. Harris, Jr. and Yasutaka Sibuya. *W. A. Benjamin, Inc., New York-Amsterdam,* 1967. xvi + 585 *pp.* (Editors) 36 #5415

Proceedings of the United States-Japan Seminar in Differential Geometry

* Proceedings of the United States-Japan Seminar in Differential Geometry, Kyoto, Japan, 1965. *Nippon Hyoronsha Co., Ltd., Tokyo,* 1966. ix + 177 *pp.* (Editors) 35 #3552

Proceedings of the University of Georgia Topology of Manifolds Institute

* Topology of manifolds. Proceedings of the University of Georgia Topology of Manifolds Institute, 1969. Edited by J. C. Cantrell and C. H. Edwards, Jr. *Markham Publishing Co., Chicago, Ill.,* 1970. xiv + 514 *pp.* (Editors) 42 #3793

Proceedings of the Washington State University Conference on General Topology

* Proceedings of the Washington State University Conference on General Topology (March, 1970). *Pi Mu Epsilon, Department of Mathematics, Washington State Univ., Pullman, Wash.,* 1970. iv + 136 *pp.* (Editors) 41 #9169

Proceedings of the Waterloo Conference on Combinatorics

* Recent progress in combinatorics. Proceedings of the Third Waterloo Conference on Combinatorics, May 1968. Edited by W. T. Tutte. *Academic Press, New York-London,* 1969. xiv + 347 *pp.* (Editors) 40 #4128

Program of the Intercollegiate Conference on the Qualitative Theory of Differential Equations

* Программа межвузовской конференции по качественной теории дифференциальных уравнений. (Рязань, 15-19 сентября 1969 г.). (Russian) [Program of the Intercollegiate Conference on the Qualitative Theory of Differential Equations (Ryazan, September 15-19, 1969)] *Rjazan. Gosudarstv. Ped. Inst., Ryazan,* 1969. 124 *pp.* (Editors) 41 #2096

Programmation en Mathématiques Numériques

* Programmation en mathématiques numériques. Actes d'un Colloque International tenu à Besançon, 7-14 Septembre 1966. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 165. *Éditions Centre Nat. Recherche Sci., Paris,* 1968. 391 *pp.* (Editors) 37 #6006

Programmed instruction

* Математические машины и программированное обучение. (Russian) [Mathematical machines and programmed instruction] *Izdat. Belorus. Gosudarstv. Univ., Minsk,* 1969. 207 *pp.* (Editors) 42 #5478

Programming

* Introduction to system programming. Proceedings of a Symposium held at the London School of Economics, July, 1962. A.P.I.C. Studies in Data Processing, No. 4. Edited by Peter Wegner. *Published for the Automatic Programming Information Centre, Brighton College of Technology by Academic Press, London-New York,* 1964. x + 316 *pp.* (1 *insert*) (D. Vaida) 30 #1634

* Вычислительные методы и программирование. (Russian) [Computing methods and programming] Computing Center of the Moscow University. Collected works III. *Izdat. Moskovsk. Univ., Moscow,* 1965. 546 *pp.* (Editors) 32 #4879

* Вычислительные методы и программирование. V. (Russian) [Computing methods and programming. V] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1966. 363 *pp.* (Editors) 35 #3843

* Вычислительные методы программирование. VI. (Russian) [Computing methods and programming. VI] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1967. 287 *pp.* (Editors) 35 #3844

* Вычислительные методы и программирование. IX. (Russian) [Computing methods and programming. IX] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1967. 203 *pp.* (Editors) 41 #7816

* Вычислительные методы и программирование. VIII. (Russian) [Computing methods and programming. VIII] Computing Center of the Moscow University] *Izdat. Moskov. Univ., Moscow,* 1967. 254 *pp.* (Editors) 43 #8206

* Прикладная математика и программирование. (Russian) [Applied mathematics and programming] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Akad. Nauk Moldav. SSR, Kishinev,* 1968. 112 *pp.* (Editors) 30 #2453

* Вычислительные методы и программирование. X. (Russian) [Computing methods and programming. X] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1968. 224 *pp.* (Editors) 40 #8313

* Цифровая вычислительная техника и программирование. Вып. 4. (Russian) [Digital computer technology and programming. No. 4] *Izdat. "Sovetskoe Radio", Moscow,* 1968. 192 *pp.* (Editors) 42 #3970

* Вычислительные методы и программирование. XI: Численные методы в газовой динамике. (Russian) [Computing methods and programming. XI: Numerical methods in gas dynamics] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1968. 177 *pp.* (Editors) 44 #1238

* Economic models, estimation and risk programming: Essays in honor of Gerhard Tintner. Edited by K. A. Fox, J. K. Sengupta and G. V. L. Narasimham. Lecture Notes in Operations Research and Mathematical Economics, No. 15. *Springer-Verlag, Berlin-New York,* 1969. viii + 461 *pp.* (Editors) 40 #2336

* Цифровая выцеслительная техника и программирование. Вып 5. (Russian) [Digital computer technology and programming. No. 5] *Izdat. "Sovetskoe Radio", Moscow,* 1969. 224 *pp.* (Editors) 43 #1476

* Вычислительные методы и программирование. XII. (Russian) [Computing methods and programming. XII] Computing Center of the Moscow University. *Izdat. Moskov. Univ., Moscow,* 1969. 207 *pp.* (Editors) 44 #2321

* Вычислительные методы и программирование. XV: Численные методы в механике сплошных сред. (Russian) [Computing methods and programming. XV: Numerical methods in the mechanics of continuous media] *Izdat. Moskov. Univ., Moscow,* 1970. 199 *pp.* (Editors) 44 #1307

Programming and computer techniques in experimental physics

* Programming and computer techniques in experimental physics. Edited by D. V. Skobel'cyn. Translated from the Russian. Proceedings (Trudy) of the P. N. Lebedev Physics Institute, Vol. 45. *Consultants Bureau, New York-London,* 1970. vi + 126 *pp.* (Editors) 41 #9464

Progress in circuit theory

* Progress in circuit theory—1960-1963. Edited by Louis Weinberg. *IEEE Trans. Circuit Theory* CT-11 (1964), 2-29. (Editors) 32 #2254

Progress in control engineering

* Progress in Control Engineering. Vol. 2. Edited by R. H. Macmillan, T. J. Higgins, P. Naslin. *Academic Press, Inc., Publishers, New York,* 1964. vii + 292 *pp.* (W. H. Fleming) 30 #3782

Progress of cybernetics

* Progress of cybernetics. Vol. 1: Main papers. The meaning of cybernetics. Neuro- and biocybernetics. Vol. 2: Cybernetics and industry. Social and economic consequences. Cybernetics and artifacts. Edited by J. Rose. Proceedings of the First International Congress of Cybernetics, London, 1969. *Gordon and Breach Science Publishers, London-New York-Paris,* 1970. *Vol.* 1: xiv + 521 *pp. Vol.* 2: xiv + *pp.* 523-959. (Editors) 42 #4226

Progress in mathematics

* Progress in mathematics. Vol. 1: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1968. ix + 246 *pp.* (Editors) 36 #2454

* Progress in mathematics. Vol. 2: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1968. vii + 161 *pp.* (Editors) 36 #4940

* Progress in mathematics. Vol. 3: Probability theory, mathematical statistics and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1969. vii + 122 *pp.* (Editors) 39 #1259

* Progress in mathematics. Vol. 4: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian by J. S. Wood. *Plenum Press, New York-London,* 1969. vii + 132 *pp.* (Editors) 39 #6700

* Progress in mathematics. Vol. 5: Algebra. Edited by R. V. Gamkrelidze. Translated from the Russian by N. H. Choksy. *Plenum Press, New York-London,* 1969. viii + 214 *pp.* (Editors) 39 #6701

* Progress in mathematics. Vol. 6: Topology and geometry. Edited by R. V. Gamkrelidze. Translated from the Russian by N. H. Choksy. *Plenum Press, New York-London,* 1970. x + 269 *pp.* (Editors) 42 #2903a

* Progress in mathematics. Vol. 7: Probability theory, mathematical statistics, and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian by J. S. Wood. *Plenum Press, New York-London,* 1970. ix + 145 *pp.* (Editors) 42 #2903b

* Progress in mathematics. Vol. 8: Mathematical analysis. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York-London,* 1970. viii + 215 *pp.* (Editors) 44 #2544

* Progress in mathematics. Vol. 9: Algebra and geometry. Edited by R. V. Gamkrelidze. Translated from the Russian by Nasli H. Choksy. *Plenum Press, New York-London,* 1971. ix + 253 *pp.* (Editors) 43 #1786

Progress in nuclear physics

* Progress in nuclear physics, Vol. 10. Edited by D. M. Brink and J. H. Mulvey. *Pergamon Press, Oxford-New York-Toronto, Ont.,* 1969. vii + 390 *pp.* (Editors) 41 #7986

Progress in operations research

* Progress in operations research. Vol. III: Relationship between operations research and the computer. Edited by Julius S. Aronofsky. Operations Research Society of America, Publications in Operations Research, No. 16. *John Wiley & Sons, Inc., New York-London-Sydney,* 1969. viii + 561 *pp.* (Editors) 43 #4450

Progress in optics

* Progress in optics. Vol. II. Edited by E. Wolf. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York;* 1963. xii + 298 *pp.* (From the editor's preface) 31 #6519

* Progress in optics. Vol. III. Edited by E. Wolf. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1964. xii + 340 *pp.* (4 *plates*) (Editors) 29 #1865

* Progress in optics. Vol. IV. Edited by E. Wolf. *North Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1965. xii + 327 *pp.* (From the editor's preface) 32 #741

Progress in solid mechanics

* Progress in solid mechanics. Vol. III. Dynamical problems in elasticity by V. D. Kupradze. Edited by I. N. Sneddon and R. Hill. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1963. vii + 259 *pp.* (M. E. Gurtin) 29 #1785

Projective geometry conference, Proceedings

* Proceedings of the projective geometry conference at the University of Illinois, Summer, 1967. *University of Illinois at Chicago Circle, Chicago, Ill.,* 1967. v + 164 *pp.* (Editors) 36 #3615

Proof techniques in graph theory

* Proof techniques in graph theory. Proceedings of the Second Ann Arbor Graph Theory Conference, February 1968. Edited by Frank Harary. *Academic Press, New York-London,* 1969. xv + 330 *pp.* (Editors) 40 #4162

Propriétés générales des schémas en groupes

* Schémas en groupes. I: Propriétés générales des schémas en groupes. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 151. *Springer-Verlag, Berlin-New York,* 1970. xv + 564 *pp.* (Editors) 43 #223a

Pseudo-differential operators

* Pseudo-differential operators. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Stresa, 26 agosto-3 settembre, 1968. Coordinatore: L. Nirenberg. *Edizioni Cremonese, Rome,* 1969. ii + 375 *pp.* (Editors) 40 #6311

Publications of the Academy of Sciences of the Ukrainian SSR

* Vidannja Akademī ī Nauk URSR (1919-1967): Fīziko-tehnīčnī ta matematičnī nauki. Bībliografīčniĭ pokažčik. (Ukrainian) [Publications of the Academy of Sciences of the Ukrainian SSR (1919-1967): Physics, engineering and mathematics. A bibliography] Central Science Library of the Academy of Sciences of the Ukrainian SSR. *Vidavn. "Naukova Dumka", Kiev,* 1970. 783 *pp.* (Editors) 42 #1632

Publications of M. A. Lavrent'ev in the field of mechanics and applied physics

* The publications of M. A. Lavrent'ev in the field of mechanics and applied physics. (Russian) *Certain Problems of Mathematics and Mechanics (On the Occasion of the Seventieth Birthday of M. A. Lavrent'ev (Russian), pp.* 30-43. *Izdat. "Nauka", Leningrad,* 1970. (J. Burlak) 44 #5203c

Quadratic forms

* Studien zur Theorie der quadratischen Formen. Herausgegeben von Bartel L. van der Waerden und Herbert Gross. Lehrbücher und Monographien aus dem Gebiete der exakten Wissenschaften, Mathematische Reihe, Band 34. *Birkhäuser Verlag, Basel-Stuttgart,* 1968. 254 *pp.* (Editors) 37 #4014

Qualitative methods in the theory of ordinary differential equations and celestial mechanics

* Качественные методы в теории обыкновенных дифференциальных уравнений и небесной механике. (Russian) [Qualitative methods in the theory of ordinary differential equations and celestial mechanics] Abstracts of reports and papers presented at a Symposium sponsored by the Astronomy Council of the Academy of Sciences of the USSR, the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR and the Institute of Mathematics with Computing Center of the Moldavian SSR. *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 57 *pp.* (Editors) 40 #4529

Qualitative theory of differential equations

* Программа межвузовякой конференции по качественной теории дифференциальных уравнений. (Рязань, 15-19 сентября 1969 г.). (Russian) [Program of the Intercollegiate Conference on the Qualitative Theory of Differential Equations (Ryazan, September 15-19, 1969)] *Rjazan. Gosudarstv. Ped. Inst., Ryazan,* 1969. 124 *pp.* (Editors) 41 #2096

Qualitative theory of ordinary differential equations

* Quelques problèmes de la théorie qualitative des équations différentielles ordinaires. Éditions Spéciales de l'Institut Mathématique de Béograd, Tome 7. *Matematički Institut u Beogradu, Belgrade,* 1969. 165 *pp.* (Editors) 41 #563

Quality control

* Вероятностные модеви и статистический контроль. (Russian) [Probabilistic models and quality control] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1968. 75 *pp.* (Editors) 41 #4697

* Математические методы контроля качества и надежности. (Russian) [Mathematical methods in quality control and reliability] Proceedings of an All-Union Colloquium (Tashkent, 1967). *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 125 *pp.* (Editors) 42 #3957

Quantum electrodynamics

* Quantum electrodynamics. Proceedings of the IV. Internationale Universitätswochen für Kernphysik 1965 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 25 February-10 March 1965. Edited by Paul Urban. Acta Phys. Austriaca, Suppl. II. *Springer-Verlag, Vienna-New York,* 1965. ii + 245 *pp.* (Editors) 33 #2120

Quantum electronics

* Квантовая эвектроника. Вып 4. (Russian) [Quantum electronics. No. 4] *"Naukova Dumka", Kiev,* 1969. 308 *pp.* (Editors) 40 #8350

Quantum mechanics

* Perturbation theory and its application in quantum mechanics. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, and the Theoretical Chemistry Institute at the University of Wisconsin, Madison, Wis., October 4-6, 1965. Edited by Calvin H. Wilcox. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. x + 428 *pp.* (Editors) 34 #1130

Quantum optics and electronics

* Optique et électronique quantiques. Quantum optics and electronics. Lectures delivered at Les Houches during the 1964 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt, A. Blandin, C. Cohen and Tannoudji. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1965. ix + 621 *pp.* (Editors) 32 #3432

Quantum theory

* Lectures in theoretical physics. Vol. XA: Quantum theory and statistical physics. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. x + 573 *pp.* (Editors) 38 #4099a

Quantum theory of angular momentum

* Quantum theory of angular momentum. A collection of reprints and original papers. Edited by L. C. Biedenharn and H. van Dam. *Academic Press, New York-London,* 1965. vii + 332 *pp.* (R. Mirman) 33 #6983

Quantum theory of systems with many degrees of freedom

* Quantum theory of systems with many degrees of freedom. Symposium held at Keszthely, September, 1964. Edited by P. Gombás Acta Phys. Acad. Sci. Hungar., Vol. 19. *Akadémiai Kiadó, Budapest,* 1965. 363 *pp.* (Editors) 34 #5404

Quasiconformal mappings

* Метрические вопросы теории функций и отображений. Вып 1 (Доклады коллоквиума по теории квазиконформных отображений и ее обобщениям, Донецк, центябрь 1968г.). (Russian) [Metrical questions of the theory of functions and mappings. No. 1 (Proceedings of the Colloquium on the Theory of Quasiconformal Mapping and its Generalizations, Donetsk, September, 1968)] Academy of Sciences of the Ukrainian SSR. Donetsk Computing Center. *Izdat. "Naukova Dumka", Kiev,* 1969. 242 *pp.* (Editors) 43 #517

Quasigroups and loops

* Вопросы теории квазигрупп и луп. (Russian) [Questions of the theory of quasigroups and loops] Edited by V. D. Belousov. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971). 183 *pp.* (Editors) 43 #389

Quelques problèmes d'algèbre

* Sur quelques problèmes d'algèbre. Secrétariat des Mathématiqu de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 53. *Université de Montpellier, Montpellier,* 1969. ii + 92 *pp.* (Editors) 40 #1226

* Sur quelques problèmes d'algèbre. II. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1969-1970, Publication No. 71. *Université de Montpellier, Montpellier,* 1970. i + 98 *pp. (loose errata)* (Editors) 41 #3207

Quelques problèmes de la théorie qualitative des équations différentiell ordinaires

* Quelques problèmes de la théorie qualitative des équations différentielles ordinaires. Éditions Spéciales de l'Institut Mathématique de Béograd, Tome 7. *Matematički Institut u Beogradu, Belgrade,* 1969. 165 *pp.* (Editors) 41 #563

Questions on algebraic varieties

* Questions on algebraic varieties. Centro Internazionale Matematico Estivo (C.I.M.E.). III Ciclo, Varenna, 7-17 Settembre 1969. Coordinatore: E. Marchionna. *Edizioni Cremonese, Rome,* 1970. ii + 343 *pp.* (Editors) 42 #5988

Questions of engineering cybernetics

* Вопросы технической кибернетики. (Russian) [Questions of engineering cybernetics] Institute of Cybernetics of the Academy of Sciences of the Azerbaijan SSR. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1969. 144 *pp.* (Editors) 44 #1458

Questions of numerical mathematics and computing technology

* Вопросы вычислительнои математики и вычислитевьнои техники. (Russian) [Questions of numerical mathematics and computing technology] *Izdat. Rostov. Univ., Rostov,* 1965. 147 *pp.* (1 *foldout)* (Editors) 34 #2142

Questions of the theory of quasigroups and loops

* Вопросы теории квазигрупп и луп. (Russian) [Questions of the theory of quasigroups and loops] Edited by V. D. Belousov. *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970 (1971), 183 *pp.* (Editors) 43 #389

Queueing theory

* Queueing theory. JUSE Symposium on Mathematical Programming, 4-6 July, 1962, Series No. 2. Edited by K. Kunisawa. *Japanese Union of Science and Engineering, Tokyo,* 1962. ix + 81 *pp.* (Editors) 30 #2576

RAAG memoirs

* RAAG memoirs of the unifying study of basic problems in engineering and physical sciences by means of geometry. Vol. III. Edited by Kazuo Kondo. *Published for the Research Association of Applied Geometry, Japan, by Gakujutsu Bunken Fukyo-kai, Tokyo,* 1962. xiv + 761 *pp.* (Editors) 30 #1649

* RAAG memoirs of the unifying study of basic problems in engineering and physical sciences by means of geometry. Vol. IV. Edited by Kazuo Kondo. *Gakujutsu Bunken Fukyu-Kai, Tokyo,* 1968. xiv + 633 *pp.* (A. A. Mullin) 42 #8

Le raisonnement juridique et la logique déontique

* Le raisonnement juridique et la logique déontique (Actes colloq., Bruxelles, 22-23 décembre 1969). Logique et Analyse (N.S.) 13 (1970), no. 49-50. *Éditions Nauwelaerts, Louvain-Paris,* 1970. 271 *pp.* (Table of contents) 42 #1648

Random counts in models and structures

* Random counts in scientific work. Vol. 1: Random counts in models and structures. Expanded from the Proceedings of the Biometric Society Symposium, Dallas, Tex., December, 1968 (American Association for the Advancement of Science Conference). Edited by G. P. Patil. *The Pennsylvania State University Press, University Park, Pa.-London,* 1970. viii + 268 *pp.* (I. J. Good) 44 #4802

Random counts in scientific work

* Random counts in scientific work. Vol. 1: Random counts in models and structures. Expanded from the Proceedings of the Biometric Society Symposium, Dallas, Tex., December, 1968 (American Association for the Advancement of Science Conference). Edited by G. P. Patil. *The Pennsylvania State University Press, University Park, Pa.-London,* 1970. viii + 268 *pp.* (I. J. Good) 44 #4802

Random processes

* Transactions of the Fourth Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Held at Prague, August 31-September 11, 1965. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 725 *pp.* (Editors) 35 #4066

* Selected translations in mathematical statistics and probability, Vol. 8. Eleven Lectures delivered at the Fourth Prague Conference on Information Theory, Statistical Decision Functions and Random Processes held at Prague from 31st August to 11th September 1965. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1970. iv + 221 *pp.* (Editors) 41 #1461

Rarefied gas dynamics

* Rarefied gas dynamics. Vol. I. Proceedings of the Fourth International Symposium on Rarefied Gas Dynamics, held at the Institute for Aerospace Studies, University of Toronto, 1964. Edited by J. H. de Leeuw. *Academic Press, New York-London,* 1965. xiv + 700 *pp.* (Editors) 34 #1013a

* Rarefied gas dynamics. Vol. II. Proceedings of the Fourth International Symposium on Rarefied Gas Dynamics, held at the Institute for Aerospace Studies, University of Toronto, 1964. Edited by J. H. de Leeuw. *Academic Press, New York-London,* 1966. xv + 608 *pp.* (Editors) 34 #1013b

The rational mechanics of materials

* Continuum mechanics. II. The rational mechanics of materials. Edited by C. Truesdell. International Science Review Series, Vol. 8. *Gordon and Breach Science Publishers, New York-London-Paris,* 1965. ix + 436 *pp.* (Editors) 33 #1187b

Readings in mathematical psychology

* Readings in mathematical psychology. Vol. I. Edited by R. Duncan Luce, Robert R. Bush and Eugene Galanter. *John Wiley and Sons, Inc., New York-London,* 1963. ix + 535 *pp.* (H. P. Edmundson) 33 #7145

* Readings in mathematical psychology. Vol. II. Edited by R. Duncan Luce, Robert R. Bush and Eugene Galantev. *John Wiley and Sons, Inc., New York-London-Sydney,* 1965. ix + 568 *pp.* (H. P. Edmundson) 33 #7146

Readings from Scientific American

* Mathematics in the modern world. Readings from Scientific American. With introductions by Morris Kline. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1968. vi + 409 *pp.* (Editors) 38 #1969

Real analysis

* Studies in real and complex analysis. Edited by I. I. Hirschman, Jr. MAA Studies in Mathematics, Vol. 3. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1965. v + 213 *pp.* (Editors) 32 #1080

Recent advances in matrix theory

* Recent advances in matrix theory. Proceedings of an Advanced Seminar Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., October 14-16, 1963. Edited by Hans Schneider. *The University of Wisconsin Press, Madison, Wis.,* 1964. xi + 142 *pp.* (Editors) 29 #2265

Recent advances in optimization techniques

* Recent advances in optimization techniques. Proceedings of the Symposium on Recent Advances in Optimization Techniques, held at Carnegie Institute of Technology, Pittsburgh, Pennsylvania, April 21-23, 1965. Edited by Abraham Lavi and Thomas P. Vogl. *John Wiley & Sons, Inc., New York-London-Sydney,* 1966. xiii + 656 *pp.* (From the editors' preface) 33 #6876

Recent developments in general relativity

* Recent developments in general relativity. *Pergamon Press, Oxford-New York-Paris; PWN—Polish Scientific Publishers, Warsaw,* 1962. 472 *pp.* (F. A. E. Pirani) 29 #1991

Recent developments in particle physics

* Recent developments in particle physics. Proceedings of the First Pacific International Summer School in Physics, Honolulu, Hawaii, August, 1965. Edited by Michael J. Moravcsik. Nuclear Physics, Vol. 3. *Gordon and Breach Science Publishers, New York-London-Paris,* 1966. vii + 263 *pp.* (Editors) 35 #2561

Recent developments in switching theory

* Recent developments in switching theory. Edited by Amar Mukhopadhyay. *Academic Press, New York-London,* 1971. xiii + 436 *pp.* (Editors) 43 #4572

Recent progress in combinatorics

* Recent progress in combinatorics. Proceedings of the Third Waterloo Conference on Combinatorics, May 1968. Edited by W. T. Tutte. *Academic Press, New York-London,* 1969. xiv + 347 *pp.* (Editors) 40 #4128

Recent Soviet contributions to mathematics

* Recent Soviet contributions to mathematics. Edited by J. P. LaSalle and S. Lefschetz. *The Macmillan Co., New York,* 1962. viii + 324 *pp.* (A. J. Lohwater) 29 #4656

Recent trends in graph theory

* Recent trends in graph theory. Proceedings of the First New York City Graph Theory Conference held on June 11, 12, 13, 1970. Sponsored by St. John's University, Jamaica, New York. Edited by M. Capobianco, J. B. Frechen and M. Krolik. Lecture Notes in Mathematics, Vol. 186. *Springer-Verlag, Berlin-New York,* 1971. vi + 219 *pp.* (Editors) 43 #3155

Rechenanlagen, Algebra und Analysis

* Grundzüge der Mathematik. Band V: Praktische Methoden und Anwendungen der Mathematik (Rechenanlagen, Algebra und Analysis). Herausgegeben von H. Behnke, G. Bertram, L. Collatz, R. Sauer und H. Unger. *Vandenhoeck & Ruprecht, Göttingen,* 1968. xi + 478 *pp.* (Editors) 38 #957

Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte

* Rechenpfennige. Aufsätze zur Wissenschaftsgeschichte. Kurt Vogel zum 80. Geburtstag am 30. September 1968 gewidmet von Mitarbeitern und Schülern. *Forschungsinstitut des Deutschen Museums für die Geschichte der Naturwissenschaften und der Technik, Munich,* 1968. 239 *pp.* (16 *plates*) (Editors) 38 #5547

Referativnyĭ Žurnal:

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963 гг.). Авторско-библиографический указательк десятилетнему комплекту *RŽ "Matematika"*. Том I. Русский алфавит. (Russian) [Referativnyĭ Žurnal: World mathematics for 10 years (1953-1963). Author-bibliographic index for a ten-year run of *RŽ "Matematika"*. Vol. I. Russian alphabet] Academy of Sciences of the USSR. Institute of Scientific Information. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 753 *pp.* (Editors) 35 #1418

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963). Анторско-библиографический указательк десятилетнему комплекту *RŽ "Matematika"*. Том II: Латинский алфавит А-К. (Russian) [Referativnyĭ Žurnal: World mathematics for 1) years (1953-1963). Author-bibliographic index for a ten-year run of *RŽ "Matematika"*. Vol. II: Latin alphabet A-K] Academy of Sciences of the USSR. Institute of Scientific and Technical Information. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 792 *pp.* (2 *errata inserts*) (Editors) 43 #6033

Regiomontanus

* Regiomontanus on triangles (*De triangulis omnimodis* by Johann Müller, otherwise known as Regiomontanus). Translated by Barnabas Hughes, with an introduction and notes. *The University of Wisconsin Press, Madison, Wis.-London,* 1967. viii + 298 *pp.* (3 *plates*) (F. Krafft) 38 #5559

Regiomontanus on triangles

* Regiomontanus on triangles (*De triangulis omnimodis* by Johann Müller, otherwise known as Regiomontanus). Translated by Barnabas Hughes, with an introduction and notes. *The University of Wisconsin Press, Madison, Wis.-London,* 1967. viii + 298 *pp.* (3 *plates*) (F. Krafft) 38 #5559

Relations scientifique russo-française

* Русско-французские научные связи. (Russian) [Franco-Russian scientific relations] Edited by A. T. Grigor'jan, A. P. Juškevič in collaboration with T. N. Klado and Ju. H. Kopelevič. *Izdat. "Nauka" Leningrad. Otdel., Leningrad,* 1968. 298 *pp.* (Editors) 41 #6651

Relativistic fluid dynamics

* Relativistic fluid dynamics. Centro Internazionale Matematico Estivo (C.I.M.E.). I Ciclo, Bressanone, 7-16 giugno 1970. Coordinatore: C. Cattaneo. *Edizioni Cremonese, Rome,* 1971. ii + 424 *pp.* (Editors) 43 #8292

Relativité, groupes et topologie

* Relativité, groupes et topologie. Lectures delivered at Les Houches during the 1963 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt and B. DeWitt. *Gordon and Breach, Science Publishers, New York-London,* 1964. xvi + 929 *pp.* (P. Roman) 29 #5592

Relativity

* Гравитация и теория относительности. Вып. 2. (Russian) [Gravitation and theory of relativity. No. 2] Edited by A. Z. Petrov. *Izdat. Kazan. Univ., Kazan,* 1965. 130 *pp.* (Editors) 35 #2598

Relativity and gravitation

* Relativity and gravitation. International Seminar on Relativity and Gravitation, held in July 1969 at the Einstein Institute of Physics, Technion City, Israel. Edited by Charles G. Kuper and Asher Peres. *Gordon and Breach Science Publishers, New York-London-Paris,* 1971. xi + 324 *pp.* (Table of contents) 43 #4412

Reliability

* Математические методы контроля качества и надежности. (Russian) [Mathematical methods in quality control and reliability] Proceedings of an All-Union Colloquium (Tashkent, 1967). *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1969. 125 *pp.* (Editors) 42 #3957

Rendiconti Conferenza Internazionale sulle Particelle Elementari

* Proceedings of the Sienna International Conference on Elementary Particles (30 Sept.-5 Oct. 1963). Vol. I. Parallel sessions. *Società Italiana di Fisica, Bologna,* 1963. xviii + 692 *pp.* (1 *plate*) (A. C. T. Wu) 32 #7035a

* Proceedings of the Sienna International Conference on Elementary Particles (30 Sept.-5 Oct. 1963). Vol. II. Plenary sessions. *Società Italiana di Fisica, Bologna,* 1963. vi + 190 *pp.* (A. C. T. Wu) 32 #7035b

Rend. Mat. e Appl.

* Simposio internazionale di geometria algebrica (Roma, 30 settembre-5 ottobre 1965). *Edizioni Cremonese, Rome,* 1967. lxvi + 286 *pp.* (1 *plate*) (Editors) 35 #5441

Rend. Sem. Mat. Messina

* Conferenze generali e simposio di geometria differenziale. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 6 (1961/62). *Seminario Matematico dell'Università, Messina,* 1962. ii + 190 *pp.* (Editors) 39 #6703a

* Simposio di analisi. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 7 (1962/63). *Seminario Matematico dell'Università, Messina,* 1963. i + 108 *pp.* (Editors) 39 #6703b

* Simposio di meccanica e matematica applicata. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 8 (1963/64). *Seminario Matematico dell'Università, Messina,* 1964. i + 188 *pp.* (Editors) 39 #6703c

Report on input-output procedures for ALGOL 60

* Report on input-output procedures for ALGOL 60. *Numer. Math.* 6 (1964), 459-462. (M. Feliciano) 30 #1630

Report on progress in information theory in the U. S. A.

* Report on progress in information theory in the U.S.A., 1960-1963. Edited by L. A. Zadeh. *IEEE Trans. Information Theory* IT-9 (1963), 221-264. (Editors) 32 #2255

Report on subset ALGOL 60 (IFIP)

* Report on subset ALGOL 60 (IFIP). *Numer. Math.* 6 (1964), 454-458. (M. Feliciano) 30 #1629

Reports of the Midwest Category Seminar

* Reports of the Midwest Category Seminar. Lecture Notes in Mathematics, No. 47. *Springer-Verlag, Berlin-New York,* 1967. iii + 181 *pp.* (Editors) 36 #3840

* Reports of the Midwest Category Seminar. II. Edited by S. MacLane. Lecture Notes in Mathematics, No. 61. *Springer-Verlag, Berlin-New York,* 1968. iii + 91 *pp.* (Editors) 37 #6341

* Reports of the Midwest Category Seminar. III. Edited by S. MacLane. Lecture Notes in Mathematics, No. 106. *Springer-Verlag, Berlin-New York,* 1969. iii + 247 *pp.* (Editors) 40 #2722

* Reports of the Midwest Category Seminar. IV. Edited by S. MacLane. Lecture Notes in Mathematics, Vol. 137. *Springer-Verlag, Berlin-New York,* 1970. iii + 139 *pp.* (Editors) 41 #8487

* Reports of the Midwest Category Seminar. V. Edited by J. W. Gray and S. MacLane. Lecture Notes in Mathematics, Vol. 195. *Springer-Verlag, Berlin-New York,* 1971. iii + 255 *pp.* (Editors) 43 #4873

Reports of the Siberian Conference on Mathematics and Mechanics

* Доклады Третьей Сибирской Конференции по Математике и Механике. (Russian) [Reports of the Third Siberian Conference on Mathematics and Mechanics] 8-13 September 1964. *Izdat. Tomsk. Univ., Tomsk,* 1964. 407 *pp.* (Editors) 29 #4650

Republican Mathematical Conference of Young Researchers

* Первая Республиканская Конференция Молодых Исследователей (Киев, 2-4 апреля 1964). Вып. II. (Russian) [First Republican Mathematical Conference of Young Researchers (Kiev, April 2-4, 1964). Part II] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 754 *pp.* (Editors) 32 #7368

* Первая Республиканская Математическая Конференция Молодых Исследователей (Киев, 2-4 апреля 1964). Вып. I. (Russian) [First Republican Mathematical Conference of Young Researchers (Kiev, April 2-4, 1964). Part I] *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1965. 706 *pp.* (Editors) 33 #1189

Research advances in mathematics and mechanics during the 50 years 1917-1967

* Итоги исследований по математике и механике за 50 лет 1917-1967. (Russian) [Research advnaces in mathematics and mechanics during the 50 years 1917-1967] Proceedings of a Scientific Conference (Tomsk, 1967). *Izdat. Tomsk. Univ., Tomsk,* 1967 (1968). 150 *pp.* (Editors) 41 #1487

Research papers in statistics

* Research papers in statistics. Festschrift for J. Neyman. F. N. David, editor. Asisted by Evelyn Fix. *John Wiley & Sons, London-New York-Sydney,* 1966. viii + 468 *pp.* (1 *plate*) (Editors) 34 #8514

Réunion du groupement des mathématiciens d'expression Latine

* Comptes rendus de la III^e réunion du groupement des mathématiciens d'expression Latine. Tenu à Namur, 20-23 septembre 196 Centre Belge de Recherches Mathématiques. *Librairie Universitair Louvain-Belgique,* 1966. 154 *pp.* (Editors) 38 #956

Reunion of Spanish Mathematicians

* VI Reunión Anual de Mathemáticos Españoles. (Spanish) [Sixth Annual Reunion of Spanish Mathematicians] Held at the University of Seville, October 28-30, 1965. *Univ. Sevilla, Seville,* 1967. 220 *pp.* (Editors) 39 #3943

Reviews of papers in algebraic and differential topology, topological groups, and homological algebra

* Reviews of papers in algebraic and differential topology, topological groups, and homological algebra, Parts I, II. As printed in Mathematical Reviews 1940 through 1967. Arranged by topic under 290 headings. Classified by N. E. Steenrod. *American Mathematical Society, Providence, R. I.,* 1968. *Part I:* xii + 862 *pp.*; *Part II: pp.* 863-1448. (Editors) 38 #3853

Reviews of plasma physics

* Reviews of plasma physics. Vol. 1. Edited by M. A. Leontovi Authorized translation from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1965. xii + 326 *pp.* (Edward Frieman) 33 #2341

* Reviews of plasma physics. Vol. 4. Edited by M. A. Leontovi Authorized translation from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1966. viii + 241 *pp.* (Editors) 32 #7145

* Reviews of plasma physics. Vol. 2. Edited by M. A. Leontovi Translated from the Russian by Herbert Lashinsky. *Consultants Bureau, New York,* 1966. viii + 297 *pp.* (Editors) 34 #2309

Revista de ciencias

* Revista de ciencias (Lima), Volume 65 (1963), nos. 523-526. Special issue in honor of Godofredo Garcia. *La Facultad de Ciencias de la Universidad Nacional Mayor de San Marcos, Lima,* 1963. (Editors) 38 #4079

Rheological problems in the mechanics of rock strata

* Реологические вопросы механики горных пород. (Russian) [Rheological problems in the mechanics of rock strata] Edited by Ž. S. Eržanov. *Izdat. Akad. Nauk Kazah. SSR, Alma-Ata,* 1964. 156 *pp.* (Editors) 29 #6708

Rheology

* Symposium on rheology. Presented as ASME Applied Mechanics and Fluids Engineering Conference, Catholic University of America, Washington, D. C., June 7-9, 1965. Edited by A. W. Marris and J. T. S. Wang. *American Society of Mechanical Engineer New York,* 1965. iv + 188 *pp.* (Editors) 33 #5421

Rice Univ. Studies

* Complex analysis. Proceedings of the Conference on Complex Analysis, Rice University, Houston, Tex., 13-15 April, 1967. Edited by H. L. Resnikoff and R. O. Wells, Jr. Rice University Studies, Vol. 54 (1968), no. 4. *William Marsh Rice University, Houston, Tex.,* 1968. (Editors) 38 #6095

Rings and modules

* Первый всесоюзный симпосиум по теории колец и модулей (Кишинев, 1968). (Russian) [First All-union Symposium on the Theory of Rings and Modules (Kishinev, 1968)] Abstracts of communications and papers. V. A. Steklov Institute of Mathematics of the Academy of Sciences of the USSR. Institute of Mathematics of the Siberian Branch of the Academy of Sciences of the USSR. Moscow State University. Institute of Mathematics with Computing Center of the Academy of Sciences of the Moldavian SSR. Kishinev State University. *Akad. Nauk Moldav. SSR, Kishinev,* 1968. 43 *pp.* (Editors) 39 #1481

* Днестровская тетрадь: Нерешенные задачи теории колец и модулей. (Russian) [The Dniester notebook: Unsolved problems in the theory of rings and modules] First All-Union Symposium on the Theory of Rings and Modules (Kishinev, 1968). *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 20 *pp.* (Editors) 40 #7294

H. P. Robertson

* H. P. Robertson: January 27, 1903-August 26, 1961. In Memoriam. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.*, 1963. iii + 63 *pp.* (1 *plate*) (Editors) 41 #6644

Royal Society Mathematical Tables

(See Western, A. E.; Miller, J. C. P., 39 #7792)

Russian-English-German-French dictionary of terms in automatic control

* Русско-англо-немецко-французский словарь терминов по автоматическому управлению. (Russian) [Russian-English-German-French dictionary of terms in automatic control] Edited by A. V. Hramoĭ. *Izdat. Akad. Nauk SSSR, Moscow*, 1963. 230 *pp.* (Editors) 41 #1469

Russian-English mathematical vocabulary

* Russian-English mathematical vocabulary. With a short grammatical sketch by K. Brooke. University Mathematical Texts. *Oliver and Boyd, Edinburgh-London; Interscience Publishers, Inc., New York*, 1963. viii + 305 *pp.* (R. P. Boas, Jr.) 29 #3330

Russian-English minimum dictionary of mathematics, physics and chemistry

* Русско-английский словарь-минимум по математике, физике и химии. (Russian) [Russian-English minimum dictionary of mathematics, physics and chemistry] *Univ. Druzby Narodov, Moscow*, 1969. 179 *pp.* *(index insert; errata insert)* (Editors) 43 #9

RŽMat

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963 гг.). Авторско-библиографический указательк десятилетнему комплекту *RŽ "Matematika"*. Том I. Русский алфавит. (Russian) [Referativnyĭ Žurnal: World matehmatics for 10 years (1953-1963). Author-bibliographic index for a ten-year run of *RŽ "Matematika"*. Vol. I. Russian alphabet] Academy of Sciences of the USSR. Institute of Scientific Information. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow*, 1966. 753 *pp.* (Editors) 35 #1418

* Реферативный Журнал: Мировая математика за 10 лет (1953-1963). Авторско-библиографический указатель к десятилетнему комплекту *RŽ "Matematika"*. Том II: Латинский алфавит А-К. (Russian) [Referativnyĭ Žurnal: World mathematics for 10 years (1953-1963). Author-bibliographic index for a ten-year run of *RŽ "Matematika"*. Vol. II: Latin alphabet A-K. Academy of Sciences of the USSR. Institute of Scientific and Technical Information. *Akad. Nauk SSSR Vsesojuz. Inst. Naucn. i Tehn. Informacii, Moscow*, 1970. 792 *pp.* (2 *errata inserts)* (Editors) 43 #6033

Satyendranath Bose

* Satyendranath Bose: 70th birthday commemoration volume. Part I. *Prof. S. N. Bose 70 Birthday Celebration Committee, Calcutta*, 1965. iv + 174 *pp.* (Editors) 34 #1152

* Satyendranath Bose: 70th birthday commemoration volume. Part II. *Prof. S. N. Bose 70th Birthday Celebration Committee, Calcutta*, 1966. v + 422 *pp.* (1 *plate*) (Editors) 34 #7314

* Satyendranath Bose: Seventieth Birthday Commemoration Volume. Part III. *Prof. S. N. Bose 70th Birthday Celebration Committee, Calcutta*, 1968. iv + 42 + i *pp.* (1 *plate*) (Editors) 39 #5285

Schémas en groupes

* (See Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.; Grothendieck, A.; Raynaud, M.; Serre, J.-P., 34 #7517-7525)

* Schémas en groupes. I: Propriétés générales des schémas en groupes. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 151. *Springer-Verlag, Berlin-New York*, 1970. xv + 564 *pp.* (Editors) 43 #223a

* Schémas en groupes. II: Groupes de type multiplicatif, et structure des schémas en groupes généraux. Séminaire de Géometrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 152. *Springer-Verlag, Berlin-New York*, 1970. ix + 654 *pp.* (Editors) 43 #223b

* Schémas en groupes. III: Structure des schémas en groupes réductifs. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 153. *Springer-Verlag, Berlin-New York*, 1970. viii + 529 *pp.* (Editors) 43 #223c

Schrödinger-Planck-Einstein-Lorentz: Briefe zur Wellenmechanik

* Schrödinger-Planck-Einstein-Lorentz: Briefe zur Wellenmechanik. Herausgegeben im Auftrage der Österreichischen Akademie der Wissenschaften von K. Przibram. *Springer-Verlag, Vienna*, 1963. vi + 68 *pp.* (4 *plates*) (Editors) 29 #5531

Scientific American

* Математика в современном мире. (Russian) [Mathematics in the modern world] Translated from the English by N. G. Ryčkova. Introduction by V. A. Uspenskiĭ. *Izdat. "Mir", Moscow*, 1967. 205 *pp.* (Editors) 38 #976

* Mathematics in the modern world. Readings from Scientific American. With introductions by Morris Kline. *W. H. Freeman and Co., San Francisco, Calif.-London*, 1968. vi + 409 *pp.* (Editors) 38 #1969

Scientific conference

* Материалы седьной научной конференции кафедры высшей математики (Фрунзе, 27-30 марта 1962 г.). (Russian) [Proceedings of the Seventh Scientific Conference of the Department of Higher Mathematics (Frunze, March 27-30, 1962)] *Frunz. Politehn. Inst., Frunze*, 1963. 152 *pp.* (Editors) 40 #1225

* Доклады VI научной конференции Новокузнецкого педагогического института по физико-математическим наукам. (Russian) [Proceedings of the Sixth Scientific Conference on Physics and Mathematics of the Novokuzneck Pedagogical Institute] *Novokuzneck. Gos. Ped. Inst., Novokuzneck*, 1963. 128 *pp.* (Editors) 40 #1235

* Материалы XI-й научной конференции профессорско-преподавательского состава физико-математического факультета (Секция математики). (Russian) [Proceedings of the Eleventh Scientific Conference of the Professorial Teaching Staff of the Faculty of Physics and Mathematics (Mathematical Section)] *Kirgiz. Gosudarstv. Univ., Frunze*, 1963. 95 *pp.* (Editors) 41 #2

Тезисы докладов XXII научной сессии: Секция физических и математических наук (Май). (Russian) [Abstracts of papers of the XXII scientific conference: Physical and mathematical sciences section] *Černovic. Gos. Univ., Cernovcy*, 1966. 180 *pp.* (Editors) 36 #3612

* Тези доповīдей VIII-oī звīтнои науковоī конференцīī īнституту (20-22 червня 1966 р.). Секцīя фīзико-математичних наук. (Ukrainian) [Abstracts of papers of the Institute's Eighth Periodic Scientific Conference (June 20-22, 1966). Physical-mathematical sciences section] Drogobych State Pedagogical Institute. *Drogobic. Derž. Ped. Inst., Drogobych*, 1966. 150 *pp.* (Editors) 36 #3613

* Итоговая научная аспирантская конференция за 1965 год: Математика. Механика. (Russian) [Candidates' science survey conference for 1965: Mathematics. Mechanics] V. I. Ul'janov-Lenin Kazan State University. *Izdat. Kazan. Univ., Kazan*, 1967. 92 *pp.* (Editors) 36 #3614

* Материалы отчетно-научной конференции по математике и механике. (Russian) [Materials of a scientific conference on mathematics and mechanics] Academy of Sciences of the Kazakh SSR Institute of Mathematics and Mechanics. *Izdat. "Nauka" Kazah. SSR, Alma-Ata*, 1967. 68 *pp.* (Editors) 37 #8

* III межвузовская научная конференция по проблемам геометрии (14-19 сентября 1967 г., г. Казань). Тезисы докладов. (Russian) [Third Interuniversity Scientific Conference on Problems in Geometry (Kazan, September 14-19, 1967)] *Izdat. Kazan. Univ., Kazan*, 1967. 204 *pp.* (Editors) 37 #806

* Научная конференция молодых ученых Литовской ССР, работающих в области физики, математики и кибернетики, посвященная 50-летию Великой Октябрьской Социалистической Революции (6-8 декабря 1967 года). (Russian) [A scientific conference of young scientists of the Lithuanian SSR, working in the domain of physics, mathematics and cybernetics, dedicated to the fiftieth anniversary of the great October socialist revolution (December 6-8, 1967)] *Akad. Nauk Litovsk. SSR, Vilnjus*, 1967. 360 *pp.* (Editors) 37 #1214

* XXY научно-педагогическая конференция математических кафедр педвузов Уральской зоны. Тезисы докладов и сообщений (22-27 мая 1967 г.). (Russian) [25th Scientific-Pedagogical Conference of Mathematical Departments of the Pedagogical Institutes of the Ural Region. Abstracts of reports and communications (May 22-27, 1967)] *Sverdlovsk. Gosudarstv. Ped. Inst., Sverdlovsk*, 1967. 189 *pp.* (Editors) 39 #2558

* Материалы XXIV конференции работников математических кафедр педагогических институтов Уральской зоны (31 января-4 февраля 1966 г.). (Russian) [Abstracts of Reports at the 24th Conference of Researchers of Mathematical Departments of Pedagogical Institutes of the Ural Region (January 31-February 4, 1966)] *Čeljabinsk. Gosudarstv. Ped. Inst., Chelyabinsk*, 1967. 99 *pp.* (Editors) 39 #2553

* Доклады научно-технической конференции по итогам научно-исследовательских работ за 1966-1967 годы. Секция математическая. (Russian) [Proceedings of a Technical Sciences Conference on the Advances of Scientific Research during the Years 1966-1967. Mathematical Section] *Moskov. Ènerget. Institut, Moscow*, 1967. 224 *pp.* (Editors) 39 #2556

* Звітно-наукова конференція кафедр інституту. Тезі доповідей. Фīзико-математичнī науки. (Ukrainian) [Scientific Conference of the Departments of the Institute. Abstracts of reports. Physical-mathematical Sciences] *Kiïv. Deržav. Ped. Inst., Kiev*, 1967. 79 *pp.* (Editors) 39 #2557

* Материалы двадцатьвторой научной студенческой конференции. V: Химия, физика, математика. (Russian) [Abstracts of the Twenty-Second Scientific Student Conference. V: Chemistry, physics, mathematics] *Tartu Gosudarstv. Univ., Tartu*, 1967. 49 *pp.* (Editors) 40 #5368

* Материалы шестой межвузовской физико-математической научной конференции Дальнего Востока. Том 3: Дифференциальные и интегральные уравнения. (Russian) [Proceedings of the Sixth Interuniversity Scientific Conference of the Far East on Physics and Mathematics. Vol. 3: Differential and integral equations] *Habarovsk. Gosudarstv. Ped. Inst., Khabarovsk*, 1967. 247 *pp.* (Editors) 40 #7060

* Материалы к предстоящей VIII научной конференции Новокузнецкого педагогического института. Серия физико-математическая. (Russian) [Materials for the forthcoming Eighth Scientific Conference of the Novokuznetsk Pedagogical Institute. Physics and mathematics series] *Novokuzneck. Gosudarstv. Ped. Inst., Novokuznetsk*, 1967. 172 *pp.* (Editors) 42 #5

* Материалы первой научной конференции молодых ученых Академии Наук Казахской ССР. (Russian) [Abstracts of Reports of the First Scientific Conference of Young Scientists of the Academy of Sciences of the Kazakh SSR] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 528 *pp.* (Editors) 40 #1230

* Материалы седьмой математической и седьмой физической межвузовских научных конференций Дальнего Востока. (Russian) [Materials of the Seventh Mathematics and the Seventh Physics Interuniversity Scientific Conferences of the Far East] *Habarovsk. Gosudarstv. Ped. Inst., Khabarovsk,* 1968. 197 *pp.* (Editors) 39 #2552

* Физика, математика и механика. (Russian) [Physics, mathematics and mechanics] Proceedings of the First Moscow Conference of Young Scientists. *Izdat. "Nauka", Moscow,* 1968. 231 *pp.* (Editors) 39 #3942

* Материалы научно-теоретической конференции профессорско-преподавательсково состава Куйбышевского педагогического института, посвященной 50-летию Октября. (Russian) [Proceedings of the scientific theoretical conference of the professorial and instructional staff of the Kuybyshev Pedagogical Institute, dedicated to the 50th anniversary of the October Revolution] *Kuĭbyšev. Gosudarstv. Ped. Inst., Kuybyshev,* 1968. 50 *pp.* (Editors) 40 #5378

* Труды второй Казахстанской межвузовской научной конференции по математике и механике (17-22 сентября 1965 г.). (Russian) [Proceedings of the Second Kazakhstan Interuniversity Scientific Conference on Mathematics and Mechanics (September 17-22, 1965)] Department of Higher and Secondary Education of the Kazakh SSR. S. M. Kirov Kazakh State University. *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 261 *pp. (errata insert)* (Editors) 40 #5379

* Итоги исследований по математике и механике за 50 лет 1917-1967. (Russian) [Research advances in mathematics and mechanics during the 50 years 1917-1967] Proceedings of a Scientific Conference (Tomsk, 1967). *Izdat. Tomsk. Univ., Tomsk,* 1967 (1968). 150 *pp.* (Editors) 41 #1487

* Применение математических методов в геологии (Материалы научной конференции, Алма-Ата, 7-10 октября 1968 года). (Russian) [Proceedings of a Scientific Conference, Alma-Ata, October 7-10, 1968)] *Izdat. "Nauka" Kazah. SSR, Alma-Ata,* 1968. 413 *pp.* (Editors) 41 #5136

* XXII Герценовские чтения: Математика (апрель-май 1969 года). Interuniversity Conference. Program and abstracts of papers. *Leningrad. Gosudarstv. Ped. Inst., Leningrad,* 1969. 118 *pp.* (Editors) 40 #5375

* Межвузовская научная конференция по проблеме "Применение функционального анализа в теории приближений". Материалы конференции. (Russian) [Interuniversity Scientific Conference on the Problem "Application of Functional Analysis in Approximation Theory". Proceedings of the Conference. *Kalinin. Gosudarstv. Ped. Inst., Kalinin,* 1970. 204 *pp.* (Editors) 42 #3481

* Молодые ученые Молдавии в борьбе за ускорение научно-технического прогреоса. (Russian) [Young Moldavian scientists in the battle for the acceleration of scientific and technological progress] Abstracts of papers presented at the Seventh Conference of Young Moldavian Scientists. *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 171 *pp.* (Editors) 42 #4355

Scientific Conference of the Faculty of Physical-Mathematical and Natural Sciences

* Третья научная конференция факультета физико-математических и естественных наук (Университет Дружбы Наронов имени Патриса Лумумбы, Москва, 1967). (Russian) [Third Scientific Conference of the Faculty of Physical-Mathematical and Natural Sciences (Patrice Lumumba Friendship of Nations University, Moscow, 1967)] Subsection of differential equations with deviating argument. Summaries of the results. *Univ. Družby Narodov im. Patrisa Lumumby, Moscow,* 1967. 113 *pp.* (Editors) 39 #1825

Scientific Conference of Young Ukrainian Mathematicians

* Друга наукова конференцīя молодих математикīв Украïни. (Ukrainian) [Second Scientific Conference of Young Ukrainian Mathematicians] *Vidavn. "Naukova Dumka", Kiev,* 1966. 699 *pp.* (Editors) 36 #6247

* Третя наукова конференцīя молодих математикīв Украïни. (Ukrainian) [Third Scientific Conference of Young Ukrainian Mathematicians] *Vidavn. "Naukova Dumka", Kiev,* 1967. 519 *pp.* (Editors) 39 #2560

* Четверта наукова конференцīя моводих математикīв Украïни. (Ukrainian) [Fourth Scientific Conference of Young Ukrainian Mathematicians] *Akad. Nauk Ukraīn. RSR Inst. Mat., Kiev,* 1968. 333 *pp.* (Editors) 40 #1232

* Пьята наукова конференцīя моводих математикīв Украïни. Тези доповīдей. (Ukrainian) [Fifth Scientific Conference of Young Ukrainian Mathematicians. Abstracts of papers] *Akad. Nauk Ukraīn. RSR Inst. Mat., Kiev,* 1970. 236 *pp.* (Editors) 41 #1465

Scientific papers of Tjalling C. Koopmans

* Scientific papers of Tjalling C. Koopmans. Edited by Martin Beckmann, Carl F. Christ and Marc Nerlove. *Springer-Verlag, New York-Berlin,* 1970. xii + 600 *pp.* (1 *plate*) (Editors) 41 #9559

Scientific-Pedagogical Conference of Mathematical Departments of the Pedagogical Institutes of the Ural Region. Abstracts of reports and communications

* XXY научно-педагогическая конференция математических кафедр педвузов Уральской зоны. Тезисы докладов и сообщений (22-27 мая 1967 г.). (Russian) [25th Scientific-Pedagogical Conference of Mathematical Departments of the Pedagogical Institutes of the Ural Region. Abstracts of reports and communications (May 22-27, 1967)] *Sverdlovsk. Gosudarstv. Ped. Inst., Sverdlovsk,* 1967. 189 *pp.* (Editors) 39 #2558

Scientific Session of the Institute: Abstracts of works of the Departments of Mathematics, Physics and Programmed Instruction

* Научная сессия института: Материалы докладов кафедр математики, физики и программированного обучения. (Russian) [Scientific Session of the Institute: Abstracts of works of the Departments of Mathematics, Physics and Programmed Instruction] *Grodn. Gosudarstv. Ped. Inst., Grodno,* 1967. 81 *pp.* (Editors) 42 #5742

Scientific and technical literature of the world

* Мировая маучная и техническая литература. Аннотированный справочник периодических и продолжающихся изданий. Том I: Астрономия, геодезия, математика, механика. (Russian) [Scientific and technical literature of the world. An annotated directory of periodical and serial publications. Vol. I: Astronomy, geodesy, mathematics, mechanics] *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. 300 *pp. (errata insert)* 38 #5546

Scientific works of V. D. Kupradze

* A list of V. D. Kupradze's scientific works. *Thbilis. Saḫelmc̣. Univ. Srom. Mekh.-Math. Mecn. Ser.* 110 (1965), 21-23. (Editors) 33 #5439

Scottish Universities' Summer School

* Strong interactions and high energy physics. Scottish Universities' Summer School, 1963. Edited by R. G. Moorhouse. *Plenum Press, New York,* 1964. xvi + 475 *pp.* (Editors) 30 #3719

Scuola Internazionale di Fisica "Enrico Fermi"

* Dispersion relations and their connection with causality. Proceedings of the International School of Physics "Enrico Fermi", Course XXIX, Varenna on Lake Como, Villa Monastero, 15th July-3rd August 1963. Edited by E. P. Wigner. *Academic Press, New York-London,* 1964. xvi + 256 *pp.* (1 *plate*) (P. Roman) 29 #4475

* Dispersion and absorption of sound by molecular processes. Proceedings of the International School of Physics "Enrico Fermi", Course XXVII, Varenna on Lake Como, Villa Monastero, August 6-August 18, 1962. Edited by D. Sette. *Academic Press, New York-London,* 1963. xi + 443 *pp.* (1 *plate*) (Editors) 29 #4483

* Advanced plasma theory. Proceedings of the International School of Physics "Enrico Fermi", Course XXV, Varenna on Lake Como, Villa Monastero, July 9-July 21, 1962. Edited by M. N. Rosenbluth. *Academic Press, New York-London,* 1964. xii + 266 *pp.* (1 *plate*) (Editors) 30 #910

Second-Order Effects in Elasticity, Plasticity and Fluid Dynamics (Internat. Sympos.)

* Second-order effects in elasticity, plasticity and fluid dynamics. International Symposium, Haifa, Israel, April 23-27, 1962. Edited by Markus Reiner and David Abir. International Union of Theoretical and Applied Mechanics. *Jerusalem Academic Press, Jerusalem; Pergamon Press, Oxford,* 1964. xvi + 795 *pp.* (Editors) 29 #767

Selecta Heinz Hopf

* Selecta Heinz Hopf. Herausgegeben zu seinem 70. Geburtstag von der Eidgenössischen Technischen Hochschule Zürich. *Springer-Verlag, Berlin-New York,* 1964. viii + 310 *pp.* (1 *plate*) (Editors) 30 #1015

Selecta Mathematica

* Selecta Mathematica. I. Herausgegeben von Konrad Jacobs. Heidelberger Taschenbücher, Band 49. *Springer-Verlag, Berlin-New York,* 1969. xi + 149 *pp.* (J. R. Blum) 44 #1

* Selecta Mathematica. II. Herausgegeben von Konrad Jacobs. Heidelberger Taschenbücher, Band 67. *Springer-Verlag, Berlin-New York,* 1970. xi + 185 *pp.* (Editors) 42 #7459

Selected bibliography on non-normality

* Selected bibliography on non-normality. Edited by H. Hyrenius, I. Adolfsson et al. Statistiska Institutionen, Göteborgs Universitet, Skriftserie 12. *Almqvist and Wiksell, Göteborg,* 1964. ii + 108 *pp.* (Editors) 30 #3514

Selected chapters from mathematics

* Izabrana poglavlja iz matematike. II. (Serbo-Croatian) [Selected chapters from mathematics. II] Edited by M. Bertolino, P. M. Vasić and S. B. Prešić. Matematička Biblioteka 22. *Zavod za Izdavanje Udžbenika, Belgrade,* 192 *pp.* (J. V. Wehausen) 29 #5701

* Izabrana poglavlja iz matematike. III. (Serbo-Croatian) [Selected chapters in mathematics. III] Edited by Radovan R. Janić. *Zavod za Izdavanje Udžbenika SRS, Belgrade,* 1970. 160 *pp.* (Table of contents) 44 #2

Selected papers on calculus

* Selected papers on calculus. Reprinted from the American Mathematical Monthly (Volumes 1-75) and from the Mathematics Magazine (Volumes 1-40). Selected and arranged by an editorial committee consisting of Tom. M. Apostol, Hubert E. Chrestenson, C. Stanley Ogilvy, Donald E. Richmond and N. James Schoonmaker. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Dickenson Publishing Co., Inc., Belmont, Calif.),* 1969. xv + 397 *pp.* (Editors) 40 #270

The selected papers of E. S. Pearson

* The selected papers of E. S. Pearson. Issued by the Biometrika trustees to celebrate his 30 years as editor. *University of California Press, Berkeley, Calif.,* 1966. viii + 327 *pp.* (1 *plate*) (Editors) 34 #3685

Selected papers of Norbert Wiener

* Selected papers of Norbert Wiener, including *Generalized harmonic analysis and Tauberian theorems.* With contributions by Y. W. Lee, N. Levinson and W. T. Martin. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.; The M. I. T. Press, Cambridge, Mass.,* 1964. vii + 453 *pp.* (1 *plate*) (Editors) 32 #3

Selected statistical papers

* Selected statistical papers, 1, 2. European meeting 1968. Mathematical Centre Tracts, Nos. 26, 27. *Mathematisch Centrum, Amsterdam,* 1968. *Vol.* 1: 95 *pp.; Vol.* 2: 95 *pp.* (Editors) 39 #2237

Selected tables in mathematical statistics

* Selected tables in mathematical statistics. Vol. I. Edited by H. L. Harter and D. B. Owen. Sponsored by The Institute of Mathematical Statistics. *Markham Publishing Co., Chicago, Ill.,* 1970. vii + 405 *pp.* (R. V. Hogg) 42 #1250

Selected translations in mathematical statistics and probability

* Selected translations in mathematical statistics and probability. Vol. 5. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1965. iv + 380 *pp.* (Editors) 32 #470

* Selected translations in mathematical statistics and probability. Vol. 6. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1966. v + 274 *pp.* (Editors) 34 #2396

* Selected translations in mathematical statistics and probability. Vol. 7. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1968. v + 302 *pp.* (Editors) 36 #7164

* Selected translations in mathematical statistics and probability, Vol. 8. Eleven Lectures delivered at the Fourth Prague Conference on Information Theory, Statistical Decision Functions and Random Processes held at Prague from 31st August to 11th September 1965. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1970. iv + 221 *pp.* (Editors) 41 #1461

* Selected translations in mathematical statistics and probability. Vol. 9. *American Mathematical Society, Providence, R. I.,* 1971. vi + 315 *pp.* (Editors) 43 #4595

Selection of early statistical papers of J. Neyman

* A selection of early statistical papers of J. Neyman. *University of California Press, Berkeley, Calif.,* 1967. ix + 429 *pp.* (1 *plate*) (Editors) 36 #6032

Self-adjusting systems

* Исследонания по теории самонастраивающихся систем. (Russian) [Studies in the theory of self-adjusting systems] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. 201 *pp.* (1 *foldout*) (Editors) 35 #6467

Semaine d'études sur la *K*-théorie et les algèbres de Clifford

* Comptes rendus du *K*-colloque (Semaine d'études sur la *K*-théorie et les algèbres de Clifford). Vols. I-III. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1967-1968, No. 29. *Université de Montpellier, Montpellier,* 196. *Vol. I:* iv + 51 *pp.; Vol. II:* iv + 144 *pp. (loose errata); Vol. III:* ii + 110 *pp.* (Editors) 40 #4942

Semigroups

* Теория полугрупп и ее приложения. Вып. 1. (Russian) [Theory of semigroups and its applications. Vol. I] V. V. Vagner editor. *Izdat. Saratov. Univ., Saratov,* 1965. 352 *pp.* (Editors) 33 #215

* Первый всесоюзный симпозиум по теории полугрупп: Резюме сообщений и докладов. (Russian) [First All-Union Symposium on the Theory of Semigroups: Abstracts of Reports and Papers] *Ural. Gosudarstv. Univ., Sverdlovsk,* 1969. 96 *pp.* (Editors) 40 #5754

* Semigroups. Proceedings of a Symposium on Semigroups held at Wayne State University, Detroit, Mich., June 27-29, 1968. Edited by Karl W. Folley. *Academic Press, New York-London,* 1969. xi + 277 *pp.* (Editors) 41 #3637

* Свердловская тетрадь (Нерешенные задачи теории полугрупп). (Russian) [Sverdlovsk notebook (Unsolved problems of the theory of semigroups)] *Ural. Gosudarstv. Univ., Sverdlovsk,* 1969. 12 *pp.* (Editors) 42 #7807

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 23e année: 1969/70. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12 [1969/70, Paris]; Fasc. 2: Demi-groupes: Exposés DGL à DG16 [1970, Nice]. *Secrétariat mathématique, Paris,* 1970. *Fasc.* 1: ii + 143 *pp. (not consecutively paged); Fasc.* 2: ii + 70 + iii *pp. (not consecutively paged)* (Editors) 43 #4598

Séminaire d'algèbre commutative

* Anneaux de Gorenstein, et torsion en algèbre commutative. Séminaire d'Algèbre Commutative dirigé par Pierre Samuel, 1966/67. Texte rédigé, d'après des exposés de Maurica Auslander, Marguerite Mangeney, Christian Peskin et Lucien Szpiro. École Normale Supérieure de Jeunes Filles. *Secrétariat mathématique, Paris,* 1967. 69 *pp.* (J. L. Fisher) 37 #1435

* Séminaire d'Algèbre Commutative dirigé par Pierre Samuel: 1967/68. Les épimorphismes d'anneaux. *Secrétariat mathématique, Paris,* 1968. ii + 111 *pp. (not consecutively paged)* (M. Nagata) 39 #6867

Séminaire sur les Algèbres de Banach

(See Bingen, Franz; Tits, Jacques; Waelbroeck, Lucien, 30 #5173)

Séminaire d'analyse dirigé par Pierre Lelong

* Séminaire d'analyse dirigé par Pierre Lelong. 6e année: 1965/66. *Secrétariat mathématique, Paris,* 1967. iii + 50 *pp. (not consecutively paged)* (Editors) 36 #4941

* Séminaire d'analyse dirigé par Pierre Lelong. 7e année: 1966/67. *Secrétariat mathématique, Paris,* 1967. iii + 108 *pp. (not consecutively paged)* (Editors) 36 #4942

Séminaire d'analyse unilatérale

* Travaux du séminaire d'analyse unilatérale. Vol. I, 1968. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 35. *Université de Montpellier, Montpellier,* 1968. 104 *pp. (not consecutively paged)* (Editors) 41 #781

* Travaux du séminaire d'analyse unilatérale. Vol. II, 1969. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 54. *Université de Montpellier, Montpellier,* 1969. 97 *pp. (not consecutively paged)* (Editors) 41 #782

Séminaire Bourbaki

* Séminaire Bourbaki. 16^{e} année: 1963/64. Fasc. 1: Textes des Conférences, Exposés 259 à 264. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. ii + 65 *pp. (not consecutively numbered)* (Editors) 30 #3816a

* Séminaire Bourbaki. 16^{e} année: 1963/64. Fasc. 2: Textes des Conférences, Exposés 265 à 270. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. ii + 95 *pp. (not consecutively numbered)* (Editors) 30 #3816b

* Séminaire Bourbaki. 16^{e} année: 1963/64. Fasc. 3: Textes des Conférences, Exposés 271 à 276. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. ii + 46 *pp. (not consecutively numbered)* (Editors) 30 #3816c

* Séminaire Bourbaki, 15^{e} année: 1962/63. Fasc. 1: Textes des Conférences, Exposés 241 à 246. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. 82 *pp. (not consecutively paged)* (Editors) 31 #4700

* Séminaire Bourbaki, 15^{e} année: 1962/63. Fasc. 2: Textes des Conférences, Exposés 247 à 252. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. 61 *pp. (not consecutively paged)* (Editors) 31 #4701

* Séminaire Bourbaki, 15^{e} année: 1962/63. Fasc. 3: Textes des Conférences, Exposés 253 à 258. Deuxième édition, corrigée. *Secrétariat mathématique, Paris,* 1964. 78 *pp. (not consecutively paged)* (Editors) 31 #4702

* Mathematica seminosa. Vol. 3: Séminaire Bourbaki, 3e et 4e années, 1950-1952. Textes des conférences (corrigés en 1959), exposés 33 à 67. *Secrétariat mathématique, Paris,* 1965. iv + 308 *pp.* (Editors) 34 #2388

* Mathematica seminosa. Vol. 4: Séminaire Bourbaki, 5e et 6e années, 1952-1954. Textes des conférences (corrigés en 1959), exposés 68 à 100. *Secrétariat mathématique, Paris,* 1965. iv + 256 *pp. (not consecutively paged)* (Editors) 34 #2389

* Séminaire Bourbaki: Volume 1948/1949-1949/1950, Exposés 1-32. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. viii + 243 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420a

* Séminaire Bourbaki: Volume 1950/1951-1951/52, Exposés 33-67. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. viii + 309 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420b

* Séminaire Bourbaki: Volume 1952/1953-1953/1954, Exposés 68-100. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. viii + 268 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420c

* Séminaire Bourbaki: Volume 1954/1955-1955/1956, Exposés 101-136. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 357 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420d

* Séminaire Bourbaki: Volume 1956/1957-1957/1958, Exposés 137-168. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. viii + 391 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420e

* Séminaire Bourbaki: Volume 1958/1959, Exposés 169-186. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 239 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420f

* Séminaire Bourbaki: Volume 1959/1960, Exposés 187-204. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 216 *pp.* + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420g

* Séminaire Bourbaki: Volume 1960/1961, Exposés 205-222. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 296 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420h

* Séminaire Bourbaki: Volume 1961/1962, Exposés 223-240. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 292 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420i

* Seminaire Bourbaki: Volume 1962/1963, Exposés 241-258. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 219 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420j

* Séminaire Bourbaki: Volume 1963/1964, Exposés 259-276. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 208 *pp.* + xxix + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420k

* Séminaire Bourbaki: Volume 1964/1965, Exposés 277-294. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. vii + 223 *pp.* + xl + *(author index)* 10 *pp. (not consecutively paged)* (S. Lang) 33 #5420l

* Séminaire Bourbaki: Vol. 1965/1966, Exposés 295-312. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. viii + 293 *pp. (not consecutively paged)* (Editors) 34 #5605

* Séminaire Bourbaki. Vol. 1966/1967. Exposés 313-330. *W. A. Benjamin, Inc., New York-Amsterdam,* 1968. viii + 279 + 35 *pp. (not consecutively paged)* (Editors) 37 #10

* Séminaire Bourbaki. Vol. 1967/1968: Exposés 331-346. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. viii + 125 *pp. (not consecutively paged)* (Editors) 41 #3

* Séminaire Bourbaki. Vol. 1968/69: Exposés 347-363. Lecture Notes in Mathematics, Vol. 179. *Springer-Verlag, Berlin-New York,* 1971. iv + 295 *pp.* (Editors) 42 #7460

* Séminaire Bourbaki. Vol. 1969/70: Exposés 364-381. Lecture Notes in Mathematics, Vol. 180. *Springer-Verlag, Berlin-New York,* 1971. iv + 310 *pp.* (Editors) 42 #7461

Séminaire Brelot-Choquet-Deny

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 11e année: 1966/67. *Secrétariat mathématique, Paris,* 1968. iii + 172 *pp. (not consecutively paged)* (Editors) 38 #3457

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 12e année: 1967/68. *Secrétariat mathématique, Paris,* 1969. iii + 166 *pp. (not consecutively paged)* (Editors) 40 #5381

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 13e année: 1969/70. *Secrétariat mathématique, Paris,* 1971. iii + 94 *pp. (not consecutively paged)* (Editors) 44 #4226

Séminaire Henri Cartan

* Séminaire Henri Cartan, 16e année: 1963/64, dirigée par Henri Cartan et Laurent Schwartz. Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique. Fasc. 1, Exposés 1 à 15. *Secrétariat mathématique, Paris,* 1965. iii + 140 *pp. (not consecutively numbered)* (J. Dieudonné) 31 #4047a; erratum, 31, p. 1336

* Séminaire Henri Cartan, 16e année: 1963/1964, dirigée par Henri Cartan et Laurent Schwartz. Théorème d'Atiyah-Singer sur l'indice d'un opérateur différentiel elliptique. Fasc. 2, Exposés 16 à 25. *Secrétariat mathématique, Paris,* 1965. iii + 127 *pp. (not consecutively numbered)* (J. Dieudonné) 31 #4047b; erratum, 31, p. 1336

Séminaire Choquet

* Séminaire Choquet. 2e année: 1963. Initiation à l'analyse. *Secrétariat mathématique, Paris,* 1964. ii + 91 *pp. (not consecutively numbered)* (Editors) 30 #3817

* Séminaire Choquet. 3e annee: 1964. Initiation à l'analyse. *Secrétariat mathématique, Paris,* 1964. ii + 61 *pp. (not consecutively numbered)* (Editors) 30 #3818

* Mathematica Seminosa. I. Séminaire Choquet: 4e année, 1964/65. Initiation à l'Analyse. *Secrétariat mathématique, Paris,* 1965. iii + 221 *pp. (not consecutively paged)* (Editors) 33 #7219

* Séminaire Choquet. 5e année: 1965/66. Initiation à l'analyse. Fascicule 1: Exposés 1 à 7. *Secrétariat mathématique, Paris,* 1968. ii + 136 *pp. (not consecutively paged)* (Editors) 38 #3101a

* Séminaire Choquet. 5e année: 1965/66. Initiation à l'analyse. Fascicule 2: Exposés 8 à 12. *Secrétariat mathématique, Paris,* 1968. ii + 116 *pp. (not consecutively paged)* (Editors) 38 #3101b

* Séminaire Choquet. 6e année: 1966/67. Initiation à l'analys Fascicule 1: Exposés 1 à 10. *Secrétariat mathématique, Paris,* 1968. ii + 104 *pp. (not consecutively paged)* (Editors) 38 #4249a

* Séminaire Choquet. 6e année: 1966/67. Initiation à l'analyse Fascicule 2: Exposés 11 à 18. *Secrétariat mathématique, Paris,* 1968. ii + 109 *pp. (not consecutively paged)* (Editors) 38 #4249b

* Séminaire Choquet. 8e année: 1968/69. Initiation à l'analyse *Secrétariat mathématique, Paris,* 1969. iii + 171 + iii *pp. (not consecutively paged)* (Table of contents) 43 #4596

* Séminaire Choquet. 7e année: 1967/68. Initiation à l'analyse Fasc. 1: Opérateurs intégraux singuliers. *Secrétariat mathématique, Paris,* 1969. iii + 98 *pp. (not consecutively paged)* (Editors) 43 #6032a

* Séminaire Choquet. 7e année: 1967/68. Initiation à l'analyse Fasc. 2: Analyse fonctionnelle générale. *Secrétariat mathématique, Paris,* 1969. iii + 95 + iii *pp. (not consecutively paged)* (Editors) 43 #6032b

* Séminaire Choquet. 9e année: 1969/70. Initiation à l'analyse Fasc. 1: Exposés 1 à 8. *Secrétariat mathématique, Paris,* 1970. iii + 176 *pp. (not consecutively paged)* (Table of contents) 43 #4597a

* Séminaire Choquet. 9e année: 1969/70. Initiation à l'analyse Fasc. 2: Exposés 9 à 23. *Secrétariat mathématique, Paris,* 1970. iii + 148 + iii *pp. (not consecutively paged)* (Table of contents) 43 #4597b

Séminaire Delange-Pisot

* Séminaire Delange-Pisot. 4e année (1962/63): Théorie des nombres. *Secrétariat mathématique, Paris,* 1967. iii + 142 *pp. (not consecutively paged)* (Editors) 35 #6502

* Séminaire Delange-Pisot. 5e année (1963/64): Théorie des nombres. *Secrétariat mathématique, Paris,* 1967. ii + 133 *pp. (not consecutively paged)* (Editors) 35 #6503

* Séminaire Delange-Pisot. 6e année (1964/65): Théorie des nombres. Fasc. 1: Exposés 1 à 9. *Secrétariat mathématique, Paris,* 1967. ii + 121 *pp. (not consecutively paged)* (Editors) 35 #6504

* Séminaire Delange-Pisot. 6e année (1964/65): Théorie des nombres. Fasc. 2: Exposés 10 à 17. *Secretariat mathematique, Paris,* 1967. ii + 91 *pp. (not consecutively paged)* (Editors) 35 #6505

Séminaire Delange-Pisot-Poitou

* Séminaire Delange-Pisot-Poitou. 7e année (1965/66): Théorie des nombres. Fasc. 1: Exposés 1 à 10. *Secrétariat mathématique, Paris,* 1967. iii + 99 *pp. (not consecutively paged)* (Editors) 35 #6506

* Séminaire Delange-Pisot-Poitou. 7e année (1965/66): Théorie des nombres. Fasc. 2: Exposés 11 à 21. *Secrétariat mathématique, Paris,* 1967. iii + 113 *pp. (not consecutively paged)* (Editors) 35 #6507

* Séminaire Delange-Pisot-Poitou. 8e année: 1966/67. Théorie des nombres. Fascicule 1: Exposés 1 à 9. *Secrétariat mathématique, Paris,* 1968. iii + 110 *pp. (not consecutively paged)* (Editors) 37 #6140a

* Séminaire Delange-Pisot-Poitou. 8e année: 1966/67. Théorie des nombres. Fascicule 2: Exposés 10 à 21. *Secrétariat mathématique, Paris,* 1968. iii + 105 *pp. (not consecutively paged)* (Editors) 37 #6140b

* Séminaire Delange-Pisot-Poitou. 9e année: 1967/68. Théorie des nombres. Fascicule 1: Exposés 1 à 14; Fascicule 2: Exposés 15 à 23, et Groupe d'études. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: iii + 134 *pp. Fasc.* 2: iii + 139 *pp. (not consecutively paged)* (Editors) 39 #5453

* Séminaire Delange-Pisot-Poitou. 10e année: 1968/69. Théorie des nombres. Fascicule 1: Exposés 1 à 13; Fascicule 2: Exposés 14 à 20; Groupe d'études et index cumulatif 1re à 10e années. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: ii + 82 *pp. (not consecutively paged); Fasc.* 2: ii + 94 *pp. (not consecutively paged)* (Editors) 40 #7061

Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 16e année: 1962/63. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 11. *Secrétariat mathématique, Paris,* 1967. iii + 202 *pp. (not consecutively paged)* (Editors) 36 #1254

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 16e année: 1962/63. Algèbre et théorie des nombres. Fascicule 2: Exposés 12 à 28. *Secrétariat mathématique, Paris,* 1967. iii + 182 *pp. (not consecutively paged)* (Editors) 36 #1255

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 17e année: 1963/64. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 10. *Secrétariat mathématique, Paris,* 1967. iii + 144 *pp. (not consecutively paged)* (Editors) 36 #1256

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 17e année: 1963/64. Algèbre et théorie des nombres. Fascicule 2: Exposés 11 à 25. *Secrétariat mathématique, Paris,* 1967. iii + 164 *pp. (not consecutively paged)* (Editors) 36 #1257

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 18e année: 1964/65. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 19. *Secrétariat mathématique, Paris,* 1967. iii + 192 *pp. (not consecutively paged)* (Editors) 36 #1258

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 18e année: 1964/65. Algèbre et théorie des nombres. Fascicule 2: Exposés 20 à 29. *Secrétariat mathématique, Paris,* 1967. iii + 186 *pp. (not consecutively paged)* (Editors) 36 #1259

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 19e année: 1965/66. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 11. *Secrétariat mathématique, Paris,* 1967. iii + 131 *pp. (not consecutively paged)* (Editors) 36 #1260

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 19e année: 1965/66. Algèbre et théorie des nombres. Fascicule 2: Exposés 12 à 25. *Secrétariat mathématique, Paris,* 1967. iii + 129 *pp. (not consecutively paged)* (Editors) 36 #1261

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20e année: 1966/67. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 10. *Secrétariat mathématique, Paris,* 1968. iii + 150 *pp. (not consecutively paged)* (Editors) 37 #6139a

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 20e année: 1966/67. Algèbre théorie des nombres. Fascicule 2: Exposés 11 à 21 et index cumulatif. *Secrétariat mathématique, Paris,* 1968. iii + 178 + iii *pp. (not consecutively paged)* (Editors) 37 #6139b

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 21e année: 1967/68. Algèbre et théorie des nombres. Fascicule 1: Exposés 1 à 9; Fascicule 2: Exposés 10 à 20. *Secrétariat mathématique, Paris,* 1969. *Fasc.* 1: ii + 134 *pp. Fasc.* 2: ii + 119 *pp. (not consecutively paged)* (Editors) 39 #5286

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 23e année: 1969/70. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12 [1969/70, Paris]; Fasc. 2: Demi-groupes: Exposés DG1 à DG16 [1970, Nice]. *Secrétariat mathématique, Paris,* 1970. *Fasc.* 1: ii + 143 *pp. (not consecutively paged); Fasc.* 2: ii + 70 + iii *pp. (not consecutively paged)* (Editors) 43 #4598

* Séminaire P. Dubreil, M.-L. Dubreil-Jacotin, L. Lesieur et C. Pisot. 22e année: 1968/69. Algèbre et théorie des nombres. Fasc. 1: Exposés 1 à 12; Fasc. 2: Exposés 13 à 21. *Secrétariat mathématique, Paris,* 1970. *Fasc.* 1: ii + 90 *pp. (not consecutively paged); Fasc.* 2: ii + 97 + iii *pp. (not consecutively paged)* (Editors) 43 #4599

Séminaire de géometrie algébrique

(See Artin, M.; Bertin, J. E.; Demazure, M.; Gabriel, P.: Grothendieck, A.; Raynaud, M.; Serre, J.-P., 34 #7517-7525)

Séminaire de Géometrie Algébrique du Bois Marie

* Schémas en groupes. I: Propriétés générales des schémas en groupes. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 151. *Springer-Verlag, Berlin-New York,* 1970. xv + 564 *pp.* (Editors) 43 #223a

* Schémas en groupes. II: Groupes de type multiplicatif, et structures des schémas en groupes généraux. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 152. *Springer-Verlag, Berlin-New York,* 1970. ix + 654 *pp.* (Editors) 43 #223b

* Schémas en groupes. III: Structure des schemas en groupes réductifs. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 153. *Springer-Verlag, Berlin-New York,* 1970. viii + 529 *pp.* (Editors) 43 #223c

Séminaire Heidelberg-Saarbrücken-Strasbourg sur la *K*-théorie

* Séminaire Heidelberg-Saarbrücken-Strasbourg sur la *K*-théorie (1967/68). Lecture Notes in Mathematics, Vol. 136. *Springer-Verlag, Berlin-New York,* 1970. iv + 264 *pp.* (Editors) 41 #6944

Séminaire Heidelberg-Strasbourg

* Séminaire Heidelberg-Strasbourg, 1966/67: Dualité de Poincaré. Publication I.R.M.A. Strasbourg, No. 3. *Institut de Recherche Mathématique Avancée, Laboratoire Associé au C.N.R.S., Université de Strasbourg, Strasbourg,* 1969. ii + 219 *pp. (not consecutively paged)* (Editors) 40 #6534

Séminaire de l'Institut de Mathématiques de Lille

* Cohomologie galoisienne des modules finis. Séminaire de l'Institut de Mathématiques de Lille, sous la direction de G. Poitou. Travaux et Recherches Mathématiques, No. 13. *Dunod, Paris,* 1967. xviii + 279 *pp.* (Editors) 36 #2670

Séminaire P. Lelong

* Séminaire P. Lelong, 3e année: 1961. Analyse. Faculté des Sciences de Paris. *Secrétariat mathématique, Paris,* 1961. 71 *pp. (not consecutively paged)* (Table of contents) 33 #3860

* Séminaire d'analyse, dirigé par Pierre Lelong, 1962/63. *Secrétariat mathématique, Paris,* 1963. iii + 54 *pp. (not consecutively paged)* (Editors) 31 #3291

Séminaire de Mathématiques Supérieures

(See Fraïssé, Roland, 40 #5430; Henkin, Leon, 39 #1313; and Daigneault, Aubert, 40 #31)

* Catégories non-abéliennes. Suivi de textes de Tudor Ganea, Heinrich Kleisli, J.-M. Maranda et Howard Osborn. Deuxième édition multigraphiée. Séminaire de Mathématiques Supérieures, No. 10 (Été, 1964). *Les Presses de L'Université de Montreal, Montreal, Que.,* 1967. 148 *pp.* (Editors) 39 #5648

Séminaire de mécanique analytique et de mécanique céleste

* Séminaire de mécanique analytique et de mécanique céleste, dirigé par Maurice Janet, 5e année: 1961/62. *Secrétariat mathématique, Paris,* 1963. iii + 164 *pp.* (Editors) 29 #4652

* Séminaire de mécanique analytique et de mécanique céleste, fondé par Maurice Janet, 6e année: 1962/63. *Secrétariat mathématique, Paris,* 1964. ii + 101 *pp. (not consecutively paged)* (J. M. A. Danby) 32 #5343

Séminaire de Probabilités

* Séminaire de Probabilités (Université de Strasbourg, novembre 1966-février 1967). Vol. I. Lecture Notes in Mathematics, No. 39. *Springer-Verlag, Berlin-New York,* 1967. i + 189 *pp.* (Editors) 37 #4845

* Séminaire de Probabilités (Université de Strasbourg, mars 1967-octobre 1967). Vol. II. Lecture Notes in Mathematics, No. 51. *Springer-Verlag, Berlin-New York,* 1968. iii + 199 *pp.* (Editors) 38 #737

* Séminaire de Probabilités. III (Université de Strasbourg, octobre 1967-juin 1968). Lecture Notes in Mathematics, No. 88. *Springer-Verlag, Berlin-New York,* 1969. iii + 229 *pp.* (Editors) 40 #5026

* Séminaire de Probabilités. IV (Université de Strasbourg, 1968-1969). Lecture Notes in Mathematics, Vol. 124. *Springer-Verlag, Berlin-New York,* 1970. iv + 282 *pp.* (Editors) 41 #4649

Séminaire Samuel

* Anneaux de Gorenstein, et torsion en algèbre commutative. Séminaire d'Algèbre Commutative dirigé par Pierre Samuel, 1966/67. Texte rédigé, d'après des exposés de Maurice Auslander, Marguerite Mangeney, Christian Peskine et Lucien Szpiro. École Normale Supérieure de Jeunes Filles. *Secrétariat mathématique, Paris,* 1967. 69 *pp.* (J. L. Fisher) 37 #1435

* Séminaire d'Algèbre Commutative dirigé par Pierre Samuel: 1967/68. Les épimorphismes d'anneaux. *Secrétariat mathématique, Paris,* 1968. ii + 111 *pp. (not consecutively paged)* (M. Nagata) 39 #6867

Séminaire M. P. Schützenberger, A. Lentin et M. Nivat

* Séminaire M. P. Schützenberger, A. Lentin et M. Nivat. Année 1969/70: Problèmes mathématiques de la théorie des automates. *Secrétariat mathématique, Paris,* 1970. iii + 146 + iii *pp. (not consecutively paged)* (Table of contents) 43 #7278

Séminaire de théorie du potentiel

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny, 7^{e} année: 1962/63. *Secrétariat mathématique, Paris,* 1964. ii + 124 *pp. (not consecutively numbered)* (Editors) 30 #3987

* Séminaire de théorie du potentiel, dirigé par M. Brelot, G. Choquet et J. Deny, 1963/64, Exposés 1-11. *Secrétariat mathématique, Paris,* 1965. ii + 65 *pp. (not consecutively numbered)* (Editors) 31 #4698

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny, 9e année: 1964/65. *Secrétariat mathématique, Paris,* 1965. 68 *pp. (not consecutively paged)* (Editors) 32 #5476

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 10e année: 1965/66. Fasc. 1: Exposés 1 à 4. *Secrétariat mathématique, Paris,* 1967. ii + 143 *pp. (not consecutively paged)* (Editors) 35 #3080a

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 10e année: 1965/66. Fasc. 2: Exposés 5 à 12 et index cumulatif. *Secrétariat mathématique, Paris,* 1967. ii + 140 *pp.* + 1 + 14 *pp. (not consecutively paged)* (Editors) 35 #3080b

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 11e année: 1966/67. *Secrétariat mathématique, Paris,* 1968. iii + 172 *pp. (not consecutively paged)* (Editors) 38 #3457

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 12e année: 1967/68. *Secrétariat mathématique, Paris,* 1969. iii + 166 *pp. (not consecutively paged)* (Editors) 40 #5381

* Séminaire de Théorie du Potentiel, dirigé par M. Brelot, G. Choquet et J. Deny. 13e année: 1969/70. *Secrétariat mathématique, Paris,* 1971. iii + 94 *pp. (not consecutively paged)* (Editors) 44 #4226

Séminaires, Espaces Analytiques
* Espaces analytiques (Bucarest, 25-30 septembre 1969). Séminaires de l'Institut de Mathématique de l'Académie de la République Socialiste de Roumanie. *Éditions de l'Académie de la République Socialiste de Roumanie, Bucharest,* 1971. 171 *pp.* (Editors) 43 #2242

Seminar
* Вычислительная математика (Семинар, Киев, 1966 г.). Вып 1. (Russian) [Mathematics of computation (Seminar, Kiev, 1966). No. 1] *"Naukova Dumka", Kiev,* 1966. 93 *pp.* (Editors) 39 #7791
* Теория оптимальных решений (Семинар, Киев, 1967 г.). Вып. 2. (Russian) [Theory of optimal solutions (Seminar, Kiev, 1967). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 80 *pp.* (Editors) 39 #6607
* Вопросы теории электронных цифровых математических машин, Вып. 3 (Семинар). (Russian) [Problems in the theory of electronic digital computers, No. 3 (Seminar)] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 111 *pp.* (Editors) 37 #3799
* Теория оптимальных решений (Семинар, Киев, 1967 г.). Вып. 3. (Russian) [Theory of optimal solutions (Seminar, Kiev, 1967). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 90 *pp.* (Editors) 39 #6608
* Автоматизация программирования (Семинар, Киев, 1966 г.). Вып 2. (Russian) [Automatization of programming (Seminar, Kiev, 1966). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainain SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 96 *pp.* (Editors) 39 #7933
* Теория автоматов и методы формализованного синтеза вычислительных машин и систем (Семинар, Киев, 1968 г.). Вып 3. (Russian) [Automata theory and methods of formalized synthesis of computers and systems (Seminar, Kiev, 1968), No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 104 *pp.* (Editors) 40 #1210

Seminar on algebra
* Труды рижского алгебраического семинара. (Russian) [Proceedings of the Riga Seminar on Algebra] *Latv. Gosudarstv. Univ., Riga,* 1969. 310 *pp.* (Editors) 40 #4046

Seminar on Algebraic Groups and Related Finite Groups
* Seminar on Algebraic Groups and Related Finite Groups. (Held at The Institute for Advanced Study, Princeton, N. J., 1968/69). Lecture Notes in Mathematics, Vol. 131. *Springer-Verlag, Berlin-New York,* 1970. viii + 321 *pp.* (Editors) 41 #3486

Seminar on bifurcation theory and nonlinear eigenvalue problems
* Bifurcation theory and nonlinear eigenvalue problems. Edited by Joseph B. Keller and Stuart Antman. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. xiv + 434 *pp.* (Editors) 39 #2555

Seminar on contact manifolds
* Seminar on contact manifolds. Part of a Symposium held at the Research Institute for Mathematical Sciences, Kyoto, June 23-25, 1969. Publications of the Study Group of Geometry, Vol. 4. *Department of Mathematics, Okayama University, Okayama,* 1970. iii + 83 *pp.* (Editors) 41 #6115

Seminar on differential equations
(See Seminar, D. E., 40 #434)

Seminar on Differential Equations and Dynamical Systems
* Seminar on Differential Equations and Dynamical Systems (University of Maryland, August 1967). Edited by G. Stephen Jones. Lecture Notes in Mathematics, No. 60. *Springer-Verlag, Berlin-New York,* 1968. iv + 106 *pp.* (Editors) 38 #1362

Seminar in Differential Geometry
* Proceedings of the United States-Japan Seminar in Differential Geometry, Kyoto, Japan, 1965. *Nippon Hyoronsha Co., Ltd., Tokyo,* 1966. ix + 177 *pp.* (Editors) 35 #3552

Seminar on Extremal Problems in Analytic Functions
* Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). I, II. *Ann. Polon. Math.* 20 (1968), 311-322. (Ch. Pommerenke) 38 #3406

Seminar in Fluid Mechanics
* Proceedings of the Summer Seminar in Fluid Mechanics (May 1967). Edited by P. L. Bhatnagar. *Indian Institute of Science, Bangalore,* 1968. viii + 482 *pp.* (Editors) 38 #2988

Seminar on Functional Analysis
* Труды семинара по функциональному анализу (Киев, 1968 г.). Вып 1. (Russian) [Proceedings of the Seminar on Functional Analysis (Kiev, 1968). No. 1] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1968. 276 *pp.* (Editors) 40 #3251

Seminar on Functions of Several Complex Variables
* Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). III. *Ann. Polon. Math.* 20 (1968), 323-325. (H. B. Laufer) 38 #3461

Seminar on graph theory
* A seminar on graph theory. Edited by Frank Harary and Lowell Beineke. *Holt, Rinehart and Winston, New York-Toronto, Ont.-London,* 1967. vii + 116 *pp.* (Editors) 35 #5348

Seminar on methods of mathematical simulation
* Математическое моделирование и теория электрических цепей. Вып. 3. (Russian) [Mathematical simulation and the theory of electrical circuits] Works of the Seminar on Methods in Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1965. 319 *pp.* (Editors) 32 #7331
* Математическое моделирование и теория электрических цепей. Вып 7. (Russian) [Mathematical simulation and the theory of electrical circuits. No. 7] Proceedings of the Seminar on Methods of Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1970. 316 *pp.* (Editors) 42 #4350

Seminar O. Onicescu
(See Cuculescu, I., 30 #4860)

Seminar über Potentialtheorie
* Seminar über Potentialtheorie. Herausgegeben von H. Bauer. Lecture Notes in Mathematics, No. 69. *Springer-Verlag, Berlin-New York,* 1968. v + 180 *pp.* (Editors) 38 #2318

Seminar on Quasiconformal Mappings
Problems from the Fourth Conference on Analytic Functions (Łódź, 1966). I, II. *Ann. Polon. Math.* 20 (1968), 311-322. (Ch. Pommerenke) 38 #3406

Seminar S. Stoilow
* Seminar S. Stoilow, 1959-60. Teoria potenţialului pe suprafeţe Riemanniene. (Romanian) [Seminar S. Stoilow, 1959-60. Potential theory on Riemann surfaces] (Russian and English summaries) Conducted by N. Boboc, C. Constantinescu and A. Cornea. *Editura Academiei Republicii Populare Romîne, Bucharest,* 1962. 160 *pp.* (L. Fourès) 33 #4295

Seminar on Sum-Functions, conducted by O. Onicescu
* Seminar de Functii Sumá. (Romanian) [Seminar on Sum-Functions] Conducted by O. Onicescu. *Editura Academiei Republicii Populare Romîne, Bucharest,* 1963. 120 *pp.* (Editors) 32 #471

Seminar: Theory of optimal solutions
* Семднар: Теория оптимальных решений. Вып 1. (Russian) [Seminar: Theory of optimal solutions. No. 1] Academy of Science of the Ukrainian SSR. Science Council for Cybernetics. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 88 *pp.* (Editors) 37 #7188; erratum, 39, p. 1593

Seminar on triples and categorical homology theory
* Seminar on triples and categorical homology theory (ETH 1966/67). Edited by B. Eckmann. Lecture Notes in Mathematics, No. 80. *Springer-Verlag, Berlin-New York,* 969. iv + 398 *pp.* (Editors) 39 #1511

Seminari di Analisi, Algebra, Geometria e Topologia
* Seminari 1962-1963 di Analisi, Algebra, Geometria e Topologia. Vol. 1. Istituto Nazionale di Alta Matematica. *Edizioni Cremonese, Rome,* 1965. vi + 438 *pp.* (Editors) 32 #5474
* Seminari 1962-1963 di Analisi, Algebra, Geometria e Topologia. Vol. 2. Istituto Nazionale di Alta Matematica. *Edizioni Cremonese, Rome,* 1965. i + 359 *pp. (pp.* 441-800) (Editors) 32 #5475

Seminario di Matematica della Scuola Normale Superiore di Pisa
(See De Giorgi, Ennio, 31 #3896 and 31 #3897)

Seminars in Mathematics, V. A. Steklov Mathematical Institute
* Studies in number theory. Edited by A. V. Malyshev. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad. Vol. 1. *Consultants Bureau,*
} *New York,* 1968. vi + 66 *pp.* (Editors) 38 #103

Sequences of convergence for series
(See Stečkin, S. B.; Ul'janov, P. L., 35 #4661)

Series and approximation
* Translations, Ser. 1, Vol. 3: Series and approximation. *American Mathematical Society, Providence, R. I.,* 1962. iii + 398 *pp.* (Editors) 38 #1979

Sets, models and recursion theory
* Sets, models and recursion theory. Proceedings of the Summer School in Mathematical Logic and Tenth Logic Colloquium, Leicester, August-September, 1965. Edited by John N. Crossley. Studies in Logic and the Foundations of Mathematics. *North-Holland Publishing Co., Amsterdam,* 1967. v + 331 *pp.* (Editors) 36 #24

Set-valued mappings, selections and topological properties of 2^X
* Set-valued mappings, selections and topological properties of 2^X. Proceedings of the Conference held at the State University of New York at Buffalo, May 8-10, 1969. Edited by W. M. Fleischman. Lecture Notes in Mathematics, Vol. 171. *Springer-Verlag, Berlin-New York,* 1970. x + 110 *pp.* (Editors) 42 #3763

(The sign } indicates an entry in the supplement.)

Several complex variables

* Several complex variables. I. Maryland 1970. Proceedings of the International Mathematical Conference, held at College Park, April 6-17, 1970. Edited by John Horváth. Lecture Notes in Mathematics, Vol. 155. *Springer-Verlag, Berlin-New York,* 1970. iv + 214 *pp.* (Editors) 42 #2904

SIAM-AMS Proceedings

* Transport theory. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in New York City, April 5-8, 1967. Edited by Richard Bellman, Garrett Birkhoff and Ibrahim Abu-Shumays. SIAM-AMS Proceedings, Vol. I. *American Mathematical Society, Providence, R. I.,* 1969. vii + 327 *pp.* (Editors) 40 #7062

* Numerical solution of field problems in continuum physics. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in Durham, North Carolina, April 5-6, 1968. Edited by Garrett Birkhoff and Richard S. Varga. SIAM-AMS Proceedings, Vol. II. *American Mathematical Society, Providence, R. I.,* 1970. viii + 280 *pp.* (Editors) 40 #7059

SIAM J. Appl. Math.

* The applications of generalized functions. Papers presented at a Symposium held in Stony Brook, N. Y., September 12-14, 1966. SIAM J. Appl. Math. 15 (1967), 925-1111. *SIAM, Philadelphia, Pa.,* 1967. (Editors) 36 #1973

"Sidereus Nuncius" of Galileo

The "Sidereus Nuncius" of Galileo. (Russian) Translated by I. N. Veselovskiĭ. *Voprosy Istor. Estest. i Tehn. No.* 16 (1964), 3-28. (C. J. Scriba) 30 #3823

Simon Stevin

* The principal works of Simon Stevin. Vols. IIA, IIB: Mathematics. Edited by D. J. Struik. *C. V. Swets & Zeitlinger, Amsterdam,* 1958. *Vol. IIA:* v + *pp.* 1-455 (1 *plate*). *Vol. IIB:* iv + *pp.* 459-976. (C. J. Scriba) 34 #1141

Simposio di analisi

* Simposio di analisi. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 7 (1962/63). *Seminario Matematico dell'Università, Messina,* 1963. i + 108 *pp.* (Editors) 39 #6703b

Simposio internazionale sulle applicazioni dell'analisi alla fisica matematica

* Simposio internazionale sulle applicazioni dell'analisi alla fisica matematica. Quarantottesima Riunione della Società Italiana per il Progresso delle Scienze (Cagliari-Sassari, settembre 28-ottobre 4, 1964). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1965. viii + 263 *pp.* (Editors) 34 #7058

Simposio internazionale di geometria algebrica

* Simposio internazionale di geometria algebrica (Roma, 30 settembre-5 ottobre 1965). *Edizioni Cremonese, Rome,* 1967. lxvi + 286 *pp.* (1 *plate*) (Editors) 35 #5441

Simposio Matematico Internazionale

* Simposio Matematico Internazionale (Roma, 26-29 Aprile, 1962). Istituto Nazionale di Alta Matematica. *Edizioni Cremonese, Rome,* 1963. 203 *pp.* (1 *plate*) (Editors) 35 #4065

Simposio di meccanica e matematica applicata

* Simposio di meccanica e matematica applicata. Dedicato ai simposi delle "Celebrazioni archimedee del secolo XX" (Siracusa, 1961). Rend. Sem. Mat. Messina 8 (1963/64). *Seminario Matematico dell'Università, Messina,* 1964. i + 188 *pp.* (Editors) 39 #6703c

Simposio di Topologia

* Simposio di Topologia. A cura dell'Università di Messina, 27-30 Aprile, 1964. Città di Siracusa Celebrazioni Archimedee del Sec. XX. Simposi del 1964. Vol. I. *Edizioni Oderisi, Gubbio,* 1965. ii + 113 *pp.* (Editors) 36 #4

Singular integrals

* Proceedings of Symposia in Pure Mathematics. Vol. X: Singular integrals. Proceedings of the Symposium in Pure Mathematics of the American Mathematical Society held at the University of Chicago, Chicago, Ill., April 20-22, 1966. Edited by Alberto P. Calderón. *American Mathematical Society, Providence, R. I.,* 1967. vi + 375 *pp.* (1 *plate*) (Editors) 37 #6144

Singularities

* Proceedings of Liverpool Singularities-Symposium. I. (1969/70). Edited by C. T. C. Wall. Lecture Notes in Mathematics, Vol. 192. *Springer-Verlag, Berlin-New York,* 1971. iv + 319 *pp.* (Editors) 43 #4055

Singularities of differentiable maps

* Особенности дифференцируемых отображений. (Russian) [Singularities of differentiable maps] Translated from the English and French by S. M. Višik, A. G. Kušnirenko and M. V. Jakobson. Edited by V. I. Arnol′d. *Izdat. "Mir", Moscow,* 1968. 268 *pp.* (Editors) 39 #2172

Sixtieth birthday anniversary: N. G. Čudakov

* Sixtieth birthday anniversary: N. G. Čudakov. (Russian) *Studies in Number Theory, No. I (Russian), pp.* 4-5. *Izdat. Saratov. Univ., Saratov,* 1966. (Editors) 34 #21

Skeletal graph

* Study of the mathematical foundations of the medial axis transformation. Containing an article by L. Calabi: A study of the skeletal graph. AFCRL-68-0498. *Air Force Cambridge Research Laboratories, Office of Aerospace Research, United States Air Force, Bedord, Mass.; Parke Mathematical Laboratories, Inc., Carlisle, Mass.,* 1968. iv + 42 *pp.* 41 #1442

Solid state physics

* Lectures in theoretical physics. Vol. VIII A: Statistical physics and solid state physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. vi + 355 *pp.* (Editors) 34 #5457

Solid state theory. Methods and applications

* Solid state theory. Methods and applications. Edited by P. T. Landsberg. Contributions by D. A. Evans, P. T. Landsberg, T. Lukes, D. J. Morgan and J. E. Parrott. *Wiley-Interscience [A Division of John Wiley & Sons Ltd.], London-New York-Sydney,* 1969. xii + 529 *pp.* (R. Keown) 42 #4139

Some aspects of ring theory

* Some aspects of ring theory. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Varenna (Como), 23-21 agosto, 1965, diretto dal I. N. Herstein. *Edizioni Cremonese, Rome,* 1966. 246 *pp.* (Editors) 36 #6441

Some mathematical questions in biology

* Some mathematical questions in biology. Proceedings of the Second Symposium on Mathematical Biology held in New York, December, 1967; and the Third Symposium on Mathematical Biology held in Dallas, December, 1968. Foreword by Murray Gerstenhaber. Lectures on Mathematics in the Life Science Vol. 2. *American Mathematical Society, Providence, R. I.,* 1970. vii + 156 *pp.* (S. Levin) 44 #3721

Some recent advances in the basic sciences

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 1: 1962, 1963, 1964. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1966. xii + 228 *pp.* (Editors) 34 #7312

* Belfer Graduate School of Science Annual Science Conference Proceedings: Some recent advances in the basic sciences. Vol. 2: 1965, 1966. Edited by A. Gelbart. *Published by Belfer Graduate School of Science, Yeshiva University [distributed by Academic Press], New York,* 1969. xiv + 253 *pp.* (Editors) 40 #7055

Some unsolved problems in mathematics

* Neki nerešeni problemi u matematici. (Serbo-Croatian) [Some unsolved problems in mathematics] Matematička Biblioteka, 25. *Zavod za Izdavanje Udžbenika, Belgrade,* 1963. 196 *pp.* (J. V. Wehausen) 30 #3815

Source book in mathematics, 1200-1800

* A source book in mathematics, 1200-1800. Edited by D. J. Struik. *Harvard University Press, Cambridge, Mass.,* 1969. xiv + 427 *pp.* (M. Kline) 39 #11

Sources of classical science: A collection of articles

* У истоков классической науки: Сборник статей. (Russian) [Sources of classical science: A collection of articles] Edited by A. N. Bogoljubov. Compiled by U. I. Frankfurt. *Izdat. "Nauka", Moscow,* 1968. 351 *pp.* (Editors) 41 #1481

Southeastern Conf. on Theoret. and Appl. Mech.

* Developments in Theoretical and Applied Mechanics, Vol. 2. Proceedings of the Second Southeastern Conference on Theoretical and Applied Mechanics; sponsored by Georgia Institute of Technology; held at Atlanta, Georgia, March 5-6, 1964. Edited by W. A. Shaw. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt,* 1965. xv + 651 *pp.* (Editors) 31 #912

Soviet mathematicians

To the memory of the mathematicians who perished in the great patriotic war of the Soviet Union. (Russian) *Uspehi Mat. Nauk* 25 (1970), *no.* 3 (153), 235-256. (Editors) 42 #7474

Space mathematics

* Space mathematics. Part 1. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 5. *American Mathematical Society, Providence, R. I.,* 1966. xvi + 296 *pp.* (Editors) 34 #2397a

* Space mathematics. Part 2. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 6. *American Mathematical Society, Providence, R. I.,* 1966. v + 258 *pp.* (Editors) 34 #2397b

* Space mathematics. Part 3. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 7. *American Mathematical Society, Providence, R. I.,* 1966. v + 315 *pp.* (Editors) 34 #2397c

Sparse matrices

* Proceedings of the Symposium on Sparse Matrices and their Applications (IBM Watson Research Center, Yorktown Heights, N. Y., September 9-10, 1968). Edited by Ralph A. Willoughby. RA 1 No. 11707. *IBM Corp. Thomas J. Watson Research Center, Yorktown Heights, New York,* 1969. xxii + 184 *pp.* (Editors) 39 #1106

Special problems of functional analysis and their applications

* Специальные вопросы функционального анализа и их применения к теории дифференциальных уравнений и теории функций. (Russian) [Special problems of functional analysis and their applications to the theory of differential equations and the theory of functions] Academy of Sciences of the Azerbaijan SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1968. 188 *pp.* (Editors) 39 #1931

Special questions on differential equations and function theory

* Специальные вопросы дифференциальных уравнений и теории функций. (Russian) [Special questions on differential equations and function theory] *Izdat. "Èlm", Baku,* 1970. 130 *pp.* (Editors) 42 #2905

Spectral analysis of time series

* Spectral analysis of time series. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army and the Statistics Department at the University of Wisconsin, Madison, Wis., October 3-5, 1966. Edited by Bernard Harris. *John Wiley & Sons, Inc., New York-London-Sydney,* 1967. x + 319 *pp.* (Editors) 35 #1168

Spectral theory

* Проблемы математической физики. Вып. 1. Спектральная теория и волновые процессы. (Russian) [Problems of mathematical physics. No. 1. Spectral theory and wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1966. 133 *pp.* *(errata insert)* (Editors) 34 #2393

* Проблемы математической физики. Вып 2. Спектральная теория. Задачи дифракции. (Russian) [Problems of mathematical physics. No. 2. Spectral theory. Diffraction problems] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1967. 158 *pp.* (Editors) 38 #1975

* Проблемы математической физики. Вып 4. Спектральная теория. Волновые процессы. (Russian) [Problems of mathematical physics. No. 4. Spectral theory. Wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1970. 135 *pp.* *(errata)* (Editors) 42 #2198

Spectral theory and problems in diffraction

* Spectral theory and problems in diffraction. Edited by M. Sh. Birman. Translated from Russian. Topics in Mathematical Physics, Vol. 2. *Consultants Bureau, New York,* 1968. vii + 134 *pp.* (Editors) 42 #1630

Spectral theory and statistical mechanics

* Summer Institute on Spectral Theory and Statistical Mechanics, 1965. Edited by J. D. Pincus. BNL 993 (T-422) (Mathematics and Computers-TID-4500). *Brookhaven National Laboratory, Upton, N. Y.,* 1966. v + 338 *pp.* (Editors) 34 #4084

Spectral theory and wave processes

* Spectral theory and wave processes. Edited by M. Sh. Birman. Translated from the Russian. Topics in Mathematical Physics, Vol. 1. *Consultants Bureau [Plenum Publishing Corporation], New York,* 1967. viii + 114 *pp.* (Editors) 35 #1428

Spline functions

* Approximations with special emphasis on spline functions. Proceedings of a Symposium Conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, May 5-7, 1969. Edited by I. J. Schoenberg. Publication No. 23 of the Mathematics Research Center, United States Army, The University of Wisconsin. *Academic Press, New York-London,* 1969. xi + 488 *pp.* (Editors) 40 #4638

Spring School of Experimental and Theoretical Physics

* Вопросы физики элементарных частиц. (Russian) [Problems in elementary particle physics] Spring School of Experimental and Theoretical Physics, Erevan, May 18-28, 1965. Edited by A. I. Alihanjan. State Committee of the Council of Ministers of the USSR for the Utilization of Atomic Energy. *Izdat. Akad. Nauk Armjan. SSR, Erevan,* 1966. 754 *pp.* (Editors) 33 #8184

Springer Tracts in Modern Physics

* Current algebra and phenomenological Lagrange functions. Invited papers presented at the First International Summer School for Theoretical Physics, University of Karlsruhe (July 22-August 2, 1968). Springer Tracts in Modern Physics. Ergebnisse der exakten Naturwissenschaften, Vol. 50. *Springer-Verlag, Berlin-New York,* 1969. iv + 156 *pp.* (Table of contents) 40 #2305

Stability and dynamic systems

* Translations, Ser. 1, Vol. 5: Stability and dynamic systems. *American Mathematical Society, Providence, R. I.,* 1962. iii + 517 p (Editors) 38 #1981

Stability of motion

* Аналитическая механика. Устойчивостьдвижения. Небесная баллистика. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5февраля 1964 г.). Обзорные доклады. Вып. I. (Russian) [Analytic mechanics. Stability of motion. Celestial ballistics. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports. Vol. I] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur'e and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 214 *pp.* *(errata insert)* (Editors) 34 #2a

Statistical decision functions

* Transactions of the Fourth Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Held at Prague, August 31-September 11, 1965. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1967. 725 *pp.* (Editors) 35 #4066

* Selected translations in mathematical statistics and probability, Vol. 8. Eleven Lectures delivered at the Fourth Prague Conference on Information Theory, Statistical Decision Functions and Random Processes held at Prague from 31st August to 11th September 1965. *Printed for Institute of Mathematical Statistics by American Mathematical Society, Providence, R. I.,* 1970. iv + 221 *pp.* (Editors) 41 #1461

Statistical mechanics

* Studies in statistical mechanics. Vol. II. Edited by J. de Boer and G. E. Uhlenbeck. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1964. xiii + 272 *pp.* (Editors) 29 #1951

* Studies in statistical mechanics. Vol. III. Edited by J. de Boer and G. E. Uhlenbeck. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1965. x + 388 *pp.* (R. Balescu) 31 #4502

Statistical mechanics of equilibrium and non-equilibrium, International Symposium

* Statistical mechanics of equilibrium and non-equilibrium. Proceedings of the International Symposium on Statistical Mechanics and Thermodynamics held at Aachen, Germany, 15-20 June 1964. J. Meixner, editor. *North-Holland Publishing Co., Amsterdam,* 1965. vi + 274 *pp.* (Editors) 31 #4516

Statistical methods

* Оптимальные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 486 *pp.* (Editors) 32 #7268b

* Оптимальные системы. Статистические методы. (Russian) [Optimal systems. Statistical methods] Proceedings of the Third All-Union Conference on Automatic Control (Technical Cybernetics), Odessa, September 20-26, 1965. *Izdat. "Nauka", Moscow,* 1967. 392 *pp.* (Editors) 38 #3060

Statistical physics

* Lectures in theoretical physics. Vol. VIII A: Statistical physics and solid state physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. vi + 355 *pp.* (Editors) 34 #5457

* Lectures in theoretical physics. Vol. XA: Quantum theory and statistical physics. Lectures delivered at the Tenth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1967. Edited by Asim O. Barut and Wesley E. Brittin. *Gordon and Breach Science Publishers, New York-London-Paris,* 1968. x + 573 *pp.* (Editors) 38 #4099a

Statistics. See Selected Translations in Mathematical Statistics and Probability.

Statistics

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. I: Statistics. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvii + 666 *pp.* (Editors) 35 #2383

* Selected statistical papers. 1, 2. European meeting 1968. Mathematical Centre Tracts, Nos. 26, 27. *Mathematisch Centrum, Amsterdam,* 1968. *Vol.* 1: 95 *pp.*; *Vol.* 2: 95 *pp.* (Editors) 39 #2237

* Proceedings of the Symposium on Empirical Bayes Estimation and Computing in Statistics. Held at the Department of Mathematics, Texas Tech. University, Lubbock, Texas, August, 1969. Edited by Thomas A. Atchison and Harry F. Martz, Jr. Mathematics Series, No. 6. *The Texas Tech. Press, Texas Tech. University, Lubbock, Tex.*, 1970. iv + 255 *pp.* (Editors) 41 #4730

* Selected tables in mathematical statistics. Vol. I. Edited by H. L. Harter and D. B. Owen. Sponsored by The Institute of Mathematical Statistics. *Markham Publishing Co., Chicago, Ill.*, 1970. vii + 405 *pp.* (R. V. Hogg) 42 #1250

Statistische Methoden

* Enzyklopädie der geisteswissenschaftlichen Arbeitsmethoden. 3. Lieferung: Methoden der Logik und Mathematik. Statistische Methoden. Dargestellt von Hans Hermes und Erich Mittenecker. *R. Oldenbourg Verlag, Munich-Vienna*, 1968. ii + 141 *pp.* (Editors) 38 #961

Steenrod algebra and its applications

* The Steenrod algebra and its applications: A conference to celebrate N. E. Steenrod's sixtieth birthday. Proceedings of the Conference held at the Battelle Memorial Institute, Columbus, Ohio, March 30th-April 4th, 1970. Edited by F. P. Peterson. Lecture Notes in Mathematics, Vol. 168. *Springer-Verlag, Berlin-New York*, 1970. viii + 317 *pp.* (Editors) 42 #5256

Stochastic control

* Nonlinear stochastic control systems. Edited by A. T. Fuller. *Taylor and Francis, Ltd., London; Barnes & Noble, Inc., New York*, 1970. vi + 456 *pp.* (Editors) 43 #5971

Stochastic differential equations

* Stochastic differential equations. Lecture Series in Differential Equations, Session 7 (Catholic University, March 4, 1967). AFOSR 65-1886. *Air Force Office of Scientific Research, Office of Aerospace Research, United States Air Force, Arlington, Va.*, 1967. ii + 57 *pp.* (Editors) 37 #7011

Stochastic optimization and control

* Stochastic optimization and control. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center and the United States Army at the University of Wisconsin, Madison, Wis., October 2-4, 1967. Edited by Herman F. Karreman. Publication No. 20 of the Mathematics Research Center, United States Army and the University of Wisconsin. *John Wiley & Sons, Inc., New York-London-Sydney*, 1968. xii + 217 *pp.* (Editors) 37 #7198

Stochastic problems in control

* Stochastic problems in control. A Symposium of the American Automatic Control Council. 1968 Joint Automatic Control Conference (University of Michigan, Ann Arbor, Mich., June 26, 1968). *The American Society of Mechanical Engineers, New York*, 1968. iii + 120 *pp.* (Editors) 38 #3064

Stochastic processes and related problems

* Случайные процессы и смежные вопросы. Часть1. (Russian) [Stochastic processes and related problems. Part 1] Edited by S. H. Siraždinov. *Izdat. "Fan" Uzbek. SSR, Tashkent*, 1970. 92 *pp.* (Editors) 42 #3847

Stress Waves in Anelastic Solids (Sympos., Brown Univ.)

* Stress waves in anelastic solids. Symposium held at Brown University, Providence, R. I., April 3-5, 1963. Edited by Herbert Kolsky and William Prager. International Union of Theoretical and Applied Mechanics. *Springer-Verlag, Berlin*, 1964. xii + 342 *pp.* (Editors) 29 #4256

Strong, electromagnetic, and weak interactions

* Strong, electromagnetic, and weak interactions. 1963 International School of Physics "Ettore Majorana". Contributors: J. S. Bell, S. Berman, N. Cabibbo, H. Harari, G. Puppi, T. Regge, and L. Van Hove. Edited by A. Zichichi. *W. A. Benjamin, Inc., New York-Amsterdam*, 1964. vi + 248 *pp.* (P. Roman) 29 #4491

Strong interactions and high energy physics

* Strong interactions and high energy physics. Scottish Universities' Summer School, 1963. Edited by R. G. Moorhouse. *Plenum Press, New York*, 1964. xvi + 475 *pp.* (Editors) 30 #3719

Structural analysis

* Matrix methods of structural analysis. Published for and on behalf of Advisory Group for Aeronautical Research and Development, North Atlantic Treaty Organization. Edited by B. Fraeijs de Veubeke. A Pergamon Press Book. *The Macmillan Co., New York*, 1964. v + 343 *pp.* (P. P. Teodorescu) 29 #785

Structural linguistics

* Проблемы структурной лингвистики. (Russian) [Problems of structural linguistics] Edited by S. K. Šaumjan. Academy of Sciences of the USSR. Institute of Russian Language. *Izdat. Akad. Nauk SSSR, Moscow*, 1963. 282 *pp.* (Editors) 33 #8238

Structural mathematical linguistics

* Структурно-математична лингвистика. (Ukrainian) [Structural mathematical linguistics] *Vidavnictvo "Naukova Dumka", Kiev*, 1965. 151 *pp.* 32 #5470

Structural mathematical studies of the Ukrainian language

* Струнтурно-математични дослидження украïнскоï мови. (Ukrainian) [Structural mathematical studies of the Ukrainian language] Academy of Science of the Ukrainian SSR. O. O. Potebni Institute of Linguistics. *Naukova Dumka, Kiev*, 1964. 99 *pp.* 32 #5469

Structure of language and its mathematical aspects

* Proceedings of Symposia in Applied Mathematics. Vol. XII: Structure of language and its mathematical aspects. Edited by Roman Jakobson. *American Mathematical Society, Providence, R. I.*, 1964. vi + 279 *pp.* (Editors) 34 #8898

Structure des schémas en groupes réductifs

* Schémas en groupes. III: Structure des schémas en groupes réductifs. Séminaire de Géométrie Algébrique du Bois Marie 1962/64 (SGA 3). Dirigé par M. Demazure et A. Grothendieck. Lecture Notes in Mathematics, Vol. 153. *Springer-Verlag, Berlin-New York*, 1970. viii + 529 *pp.* (Editors) 43 #223c

Structures feuilletées

* Structures feuilletées. Grenoble, 25-30 Juillet 1963. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 125. *Éditions du Centre National de la Recherche Scientifique, Paris*, 1964. viii + 268 *pp.* (Editors) 29 #4653

Studi matematici

* Studia Ghisleriana, Serie IV, Vol. IV: Studi matematici. *Collegio Ghislieri, Pavia*, 1967. iv + 82 *pp.* (Editors) 38 #4

Studia Ghisleriana

* Studia Ghisleriana, Serie IV, Vol. IV: Studi matematici. *Collegio Ghislieri, Pavia*, 1967. iv + 82 *pp.* (Editors) 38 #4

Studia Leibnitiana

* Studia Leibnitiana. Supplementa. Vol. II: Akten des Internationalen Leibniz-Kongresses (Hannover, 14-19 November, 1966). Band II: Mathematik-Naturwissenschaften. *Franz Steiner Verlag GMBH, Wiesbaden*, 1969. vi + 287 *pp.* (1 *plate*) (Editors) 39 #3951

* Studia Leibnitiana. Supplementa. Vol. III: Akten des Internationalen Leibniz-Kongresses (Hannover, 14.-19. November 1966). Band III: Erkenntnislehre. Logik. Sprachphilosophie. Editionsberichte. *Franz Steiner Verlag GMBH, Wiesbaden*, 1969. iv + 242 *pp.* (H. Wußing) 41 #8198

Studien zur Theorie der quadratischen Formen

* Studien zur Theorie der quadratischen Formen. Herausgegeben von Bartel L. van der Waerden und Herbert Gross. Lehrbücher und Monographien aus dem Gebiete der exakten Wissenschaften, Mathematische Reihe, Band 34. *Birkhäuser Verlag, Basel-Stuttgart*, 1968. 254 *pp.* (Editors) 37 #4014

Studies on Abelian groups

* Studies on Abelian groups. Edited by B. Charles. Symposium on the Theory of Abelian Groups. held at Montpellier University in June 1967. *Springer-Verlag, Berlin-New York; Dunod, Paris*, 1968. v + 356 *pp.* (Editors) 39 #1546

Studies in abstract families of languages

(See Ginsburg, Seymour; Greibach, Sheila; Hopcroft, John, 40 #8534)

Studies in algebra

* Алгебра и математическая логика. Алгебраические исследования. (Russian) [Algebra and mathematical logic: Studies in algebra] *Izdat. Kiev. Univ., Kiev*, 1966. 140 *pp.* (Editors) 34 #4079

* Исследования по алгебре. (Russian) [Studies in algebra] *Izdat. Saratov. Univ., Saratov*, 1969. 61 *pp.* (Editors) 40 #4038

Studies in algebra and mathematical analysis

* Исследования по алгебре и математическому анализу. (Russian) [Studies in algebra and mathematical analysis] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. *Izdat. "Karta Moldovenjaske", Kishinev*, 1965. 159 *pp.* (Editors) 33 #7221

Studies in analytical mechanics

* Исследования по аналитической механике. (Russian) [Studies in analytical mechanics] *Izdat. "Nauka", Uzbek. SSR, Tashkent*, 1965. 186 *pp.* (Editors) 34 #5341

Studies of the apparatus of information transmission

Исследование устройств передачи информации (Материалы семинара по кибернетике. Вып. 22). (Russian) [Studies of the apparatus of information transmission (Proc. Sem. Cybernetics. No. 22)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev*, 1970. 35 *pp.* (Editors) 43 #4547

Studies in applied mathematics

* Studies in applied mathematics. I. Papers presented by invitation at the Courant Symposium, held at Courant Institute of Mathematical Sciences, New York, June 8-9, 1965, under a contract with the Air Force Office of Scientific Research. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1966. iii + 129 *pp.* (1 *plate*) (Editors) 41 #6646

Studies in approximation and analysis

* Studies in approximation and analysis. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1966. iv + 195 *pp.* (1 *plate*) (Editors) 41 #6647

Studies in boundary value problems of the theory of functions and differential equations

* Исследования по краевым задачам теории функций и дифференциальных уравнений. (Russian) [Studies in boundary value problems of the theory of functions and differential equations] Academy of Sciences of the Tajik SSR. Department of Physics and Mathematics. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1964. 138 *pp.* (Editors) 36 #524

* Исследования по краевым задачам теории функций и дифференциальных уравнений. (Russian) [Studies in boundary value problems of the theory of functions and differential equations] Academy of Sciences of the Tajik SSR. S. U. Umarov Institute of Physics and Technology. *Izdat. Akad. Nauk Tadžik. SSR, Dushanbe,* 1965. 128 *pp.* (Editors) 33 #1193

Studies in certain problems of the constructive theory of functions

* Исследования по некоторым проблемам конструктивной теории функций. (Russian) [Studies in certain problems of the constructive theory of functions] A collection of papers by participants of the Leningrad City Seminar on the Constructive Theory of Functions. No. 1. Leningrad. Meh. Inst. Sb. Naučn. Trudov, No. 50. *Leningrad. Meh. Inst., Leningrad,* 1965. 249 *pp.* *(errata insert)* (Editors) 39 #1853

Studies in constructive mathematics and mathematical logic

* Studies in constructive mathematics and mathematical logic. Part I. Edited by A. O. Slisenko. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 4. *Consultants Bureau, New York,* 1969. viii + 88 *pp.* (Editors) 39 #2595

Studies of contemporary problems in the constructive theory of functions

* Исследования по современным проблемам конструктивной теории функций. (Russian) [Studies of contemporary problems in the constructive theory of functions] Proceedings of the Second All-Union Conference on the Constructive Theory of Functions held in Baku, October 8-13, 1962. Edited by I. I. Ibragimov. Academy of Sciences of the Azerbaijani SSR. Institute of Mathematics and Mechanics. *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 638 *pp.* (Editors) 33 #1617

Studies in contemporary problems of summability and the approximation of functions and in their applications

* Исследования по современным проблемам суммирования и приближения функций и их приложениям. Часть I. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part I] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk,* 1967. 152 *pp.* (Editors) 42 #4352

* Исследования по современным процлемам суммирования и приближения функций и их приложениям. Часнь II. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part II] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk,* 1969. 88 *pp.* (Editors) 42 #4353

Studies in differential equations

* Исследования по дифферентиальным уравнениям. (Russian) [Studies in differential equations] *Izdat. Akad. Nauk Uzbek. SSR, Tashkent,* 1963. 205 *pp.* (Editors) 32 #2639

Studies in differential equations and their application

* Исследования по дифференциальным уравнениям и их применению. (Russian) [Studies in differential equations and their application] *Izdat. "Nauka", Alma-Ata,* 1965. 200 *pp.* (Editors) 32 #1432

Studies in elasticity and plasticity

Исследования по упругости и пластичности. Сборник 4. (Russian) [Studies in elasticity and plasticity. Vol. IV] *Izdat. Leningrad. Univ., Leningrad,* 1965. 219 *pp.* (Editors) 33 #921

Studies and essays. Presented to Yu-why Chen on his 60th birthday

* Studies and essays. Presented to Yu-why Chen on his 60th birthday, April 1, 1970. *Mathematics Research Center, National Taiwan University, Taipei,* 1970. vii + 322 *pp.* (1 *plate*) (Editors) 43 #7

Studies in general algebra

* Исследования по общей алгебре (Семинар). (Russian) [Studies in general algebra (Seminar)] Academy of Sciences of the Moldavian SSR. Institute of Mathematics with Computing Center. Department of Algebra and Mathematical Logic. *Akad. Nauk Moldav. SSR, Kishinev,* 1965. 155 *pp.* (Editors) 34 #1132

* Исследования по общей алгебре. Вып 1. (Russian) [Studies in general algebra. No. 1] A collection of articles edited by V. D. Belousov. *Kišinev. Gosudarstv. Univ., Kishinev,* 1968. 130 *pp.* (Editors) 40 #5382

Studies in global geometry and analysis

* Studies in global geometry and analysis. Edited by S. S. Chern. MAA Studies in Mathematics, Vol. 4. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1967. v + 197 *pp.* (Editors) 35 #1429

Studies in the history of probability and statistics

(See Seal, Hilary L., 35 #5021; Hasofer, A. M., 35 #5022; Kendall, M. G., 38 #1765 and 39 #1032; Pearson, E. S., 38 #3944; and Šeĭnin, O. B., 38 #3945)

Studies in integro-differential equations in Kirghizia

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып 1. (Russian) [Studies in integro-differential equations in Kirghizia. No. 1] Academy of Sciences of the Kirghiz SSR, Institute of Physics and Mathematics. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1961. 284 *pp.* (Editors) 37 #1939

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 2. (Russian) [Studies in integro-differential equations in Kirghizia. No. 2] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. Akad. Nauk Kirgiz. SSR, Frunze,* 1962. 352 *pp.* *(errata insert)* (Editors) 37 #5638

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 3. (Russian) [Studies in integro-differential equations in Kirghizia. No. 3] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1965. 339 *pp.* *(errata insert)* (Editors) 37 #4527

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 4. (Russian) [Studies in integro-differential equations in Kirghizia. No. 4] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1967. 202 *pp.* (Editors) 36 #6890

* Исследования по интегро-дифференциальным уравнениям в Киргизии. Вып. 5. (Russian) [Studies in integro-differential equations in Kirghizia. No. 5] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1968. 214 *pp.* *(errata insert)* (Editors) 40 #6216

* Исследования по интегро-дифференциальным уравнениям в Кригизии. Вып. 6. (Russian) [Studies in integro-differential equations in Kirghizia. No. 6] Academy of Sciences of the Kirghiz SSR. Institute of Physics and Mathematics. *Izdat. "Ilim", Frunze,* 1969. 319 *pp.* (Editors) 43 #5272

Studies in mathematical programming

* Исследования по математическому программированию. (Russian) [Studies in mathematical programming] Academy of Sciences of the USSR. Central Institute of Mathematical Economics. *Izdat. "Nauka", Moscow,* 1968. 224 *pp.* (1 *foldout*) (Editors) 43 #5915

Studies in mathematical psychology

* Studies in mathematical psychology. Edited by R. C. Atkinson. Stanford Mathematical Studies in the Social Sciences, IX. *Stanford University Press, Stanford, Calif.,* 1964. viii + 414 *pp.* (R. F. Gundy) 31 #6686

Studies in mathematical statistics: Theory and applications

* Studies in mathematical statistics: Theory and applications. Edited by K. Sarkadi and I. Vincze. *Akadémiai Kiadó [Publishing House of the Hungarian Academy of Sciences], Budapest,* 1968. 210 *pp.* (Editors) 37 #2346

Studies in Mathematics

* Studies in real and complex analysis. Edited by I. I. Hirschman, Jr. Studies in Mathematics, Vol. 3. *The Mathematical Association of America, Buffalo, N. Y.; Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1965. v + 213 *pp.* (Editors) 32 #1080

* Исследования по математике. (Russian) [Studies in mathematics] *Grodn. Gos. Ped. Inst. Grodno,* 1966. 156 *pp.* (Editors) 36 #3616

Studies in mechanics of rock strata

* Исследования по механике горных пород. (Russian) [Studies in the mechanics of rock strata] Academy of Science of the Kazakh SSR. *Izdat. Akad. Nauk Kazah. SSR, Alma-Ata,* 1965. 145 *pp.* (Editors) 34 #3985

Studies of the modern problems of the constructive theory of functions

* Исследования по современным проблемам конструктивной теории функций. (Russian) [Studies of the modern problems of the constructive theory of functions] A collection of papers edited by V. I. Smirnov. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1961. 368 *pp.* (Editors) 29 #5988

Studies in modern topology

* Studies in modern topology. Edited by P. J. Hilton. MAA Studies in Mathematics, Vol. 5. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1968. vii + 212 *pp.* (Editors) 36 #5932

Studies in number theory

* Исследования по теории чисел. Вып. I. (Russian) [Studies in number theory. No. I] Collection of articles honoring Nikolaĭ Grigor'evič Čudakov's sixtieth birthday. *Izdat. Saratov. Univ., Saratov,* 1966. 72 *pp. (errata insert)* (Editors) 34 #122

* Studies in number theory. Edited by A. V. Malyshev. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad. Vol. 1. *Consultants Bureau, New York,* 1968. vi + 66 *pp.* (Editors) 38 #103

* Исследования по теории чисел. Вып. 2. (Russian) [Studies in number theory, No. 2] *Izdat. Saratov. Univ., Saratov,* 1968. 98 *pp.* (Editors) 38 #2074

* Studies in number theory. Edited by W. J. LeVeque. MAA Studies in Mathematics, Vol. 6. *The Mathematical Association of America, Buffalo, N. J. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1969. vii + 212 *pp.* (Editors) 39 #1388

* Исследования по теории чисел. Вып. 3. (Russian) [Studies in number theory. No. 3] Edited by D. N. Lenskoĭ. *Izdat. Saratov. Univ., Saratov,* 1969. 78 *pp.* (Editors) 42 #3010

Studies in numerical analysis, 2: Numerical solutions of nonlinear problems

* Studies in numerical analysis, 2: Numerical solutions of nonlinear problems. A collection of papers presented at Symposia in Numerical Solution of Nonlinear Problems sponsored by the Office of Naval Research at the Fall meeting of the Society for Industrial and Applied Mathematics held at Philadelphia, Pennsylvania, October 21-23, 1968. Edited by James M. Ortega and Werner C. Rheinboldt. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1970. iv + 143 *pp.* (Editors) 42 #1302

Studies in pure mathematics

* Studies in pure mathematics. Papers in combinatorial theory, analysis, geometry, algebra, and the theory of numbers presented to Richard Rado on the occasion of his sixty-fifth birthday. Edited by L. Mirsky. *Academic Press, London-New York,* 1971. viii + 276 *pp.* (Editors) 42 #5743

Studies in real and complex analysis

* Studies in real and complex analysis. Edited by I. I. Hirschman, Jr. MAA Studies in Mathematics, Vol. 3. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1965. v + 213 *pp.* (Editors) 32 #1080

Studies in statistical mechanics

* Studies in statistical mechanics. Vol. II. Edited by J. de Boer and G. E. Uhlenbeck. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1964. xiii + 272 *pp.* (Editors) 29 #1951

* Studies in statistical mechanics. Vol. III. Edited by J. de Boer and G. E. Uhlenbeck. *North-Holland Publishing Co., Amsterdam; Interscience Publishers [John Wiley & Sons, Inc.], New York,* 1965. x + 388 *pp.* (R. Balescu) 31 #4502

Studies in subjective probability

* Studies in subjective probability. Edited by Henry E. Kyburg, Jr. and Howard E. Smokler. *John Wiley & Sons, Inc., New York-London-Sydney,* 1964. vii + 203 *pp.* (I. J. Good) 31 #4055

Studies in the theory of differential equations and the theory of functions

* Исследования по теории дифференциальных уравнений и теории функций. (Russian) [Studies in the theory of differential equations and the theory of functions] *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 166 *pp.* (Editors) 33 #3

Studies in the theory of plates and shells

* Исследования по теории пластин и оболочек. Сборник II. (Russian) [Studies in the theory of plates and shells. Collection II] *Izdat. Kazan. Univ., Kazan,* 1964. 195 *pp.* (Editors) 33 #6922

* Исследонания по теории пластин и оболочек. Сборник III. (Russian) [Studies in the theory of plates and shells. Collection III] *Izdat. Kazan. Univ., Kazan,* 1965. 330 *pp.* (Editors) 33 #6923

* Исследования по теории пластин и оболочек. Сборник IV. (Russian) [Studies in the theory of plates and shells. Collection IV] *Izdat. Kazan. Univ., Kazan,* 1966. 565 *pp. (errata insert)* (Editors) 41 #6440

Studies in the theory of self-adjusting systems

* Исследования по теории самонастраивающихся систем. (Russian) [Studies in the theory of self-adjusting systems] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. 201 *pp. (1 foldout)* (Editors) 35 #6467

Study of the mathematical foundations of the medial axis transformation

* Study of the mathematical foundations of the medial axis transformation. Containing an article by L. Calabi: A study of the skeletal graph. AFCRL-68-0498. *Air Force Cambridge Research Laboratories, Office of Aerospace Research, United States Air Force, Bedford, Mass.; Parke Mathematical Laboratories, Inc., Carlisle, Mass.,* 1968. iv + 42 *pp.* 41 #1442

Summa Brasil Math.

* Atas do Terceiro Coloquio Brasileiro de Matemática. (Portuguese) [Proceedings of the Third Brazilian Mathematical Colloquium] Held at Fortaleza, July, 1961. Published as Vol. 5 (1962) of Summa Brasiliensis Mathematicae. *Conselho Nacional de Pesquisas, São Paulo,* 1962. 259 *pp.* (Editors) 34 #4080

Summability problems

* Исследования по современным проблемам суммирования и приближения фуркций и их приложениям. Часть I. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part I] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk,* 1967. 152 *pp.* (Editors) 42 #4352

* Исследования по современным проблемам суммирования и приближения функций и их приложениям. Часть II. (Russian) [Studies in contemporary problems of summability and the approximation of functions and in their applications. Part II] *Dnepropetrovsk. Gosudarstv. Univ., Dnepropetrovsk,* 1969. 88 *pp.* (Editors) 42 #4353

Summer Gathering on Function Algebras

* Papers from the Summer Gathering on Function Algebras at Aarhus, July 1969. Various Publications Series, No. 9. *Matematisk Institut, Aarhus Universitet, Aarhus,* 1969. ii + 78 *pp.* (Editors) 40 #4771

Summer Institute on Spectral Theory and Statistical Mechanics

* Summer Institute on Spectral Theory and Statistical Mechanics, 1965. Edited by J. D. Pincus. BNL 993 (T-422) (Mathematics and Computers-TID-4500). *Brookhaven National Laboratory, Upton, N. Y.,* 1966. v + 338 *pp.* (Editors) 34 #4084

Summer Lectures in Theoretical Physics

* Many-body theory. 1965 Tokyo Summer Lectures in Theoretical Physics, Part 1. Edited by Ryogo Kubo. *Syokabō, Tokyo; Benjamin, New York,* 1966. v + 160 *pp.* (Editors) 33 #5313a

* High energy physics. 1965 Tokyo Summer Lectures in Theoretical Physics, Part 2. Edited by Gyo Takeda. *Syokadō, Tokyo; Benjamin, New York,* 1966. v + 121 *pp.* (Editors) 33 #5313b

Summer School

* Topics in several complex variables. Lectures given at a Summer School in Otaniemi, June, 1967. Monographie No. 17 de l'Enseignement Mathématique. *Institut de Mathématiques de l'Université de Genève; Imprimerie Kundig, Geneva,* 1968. iv + 119 *pp.* (Editors) 39 #3021

Summer School on Ergodic theory

Cycle of articles on ergodic theory. (Russian) *Uspehi Mat. Nauk* 22 (1967), *no.* 5 (137), 3-172. (Editors) 35 #5577

Summer School on Numerical Methods

* Численные методы решения задач механики сплошных сред. (Russian) [Numerical methods of solution of problems in the mechanics of continuous media] Lectures presented at the Summer School on Numerical Methods, Kiev, June 15-July 7, 1966. Edited by O. M. Belocerkovskiĭ. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1969. 230 *pp.* (Editors) 42 #4085

Summer School of Theoretical Physics, Univ. of Grenoble

* Low-temperature physics. Conduction electrons--superconductivity--helium--magnetism--Mössbauer effect--defects and irradiation. Lectures delivered at Les Houches during the 1961 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt, B. Dreyfus and P. G. de Gennes. *Gordon and Breach Science Publishers, New York,* 1962. xvi + 638 *pp.* (Editors) 32 #3764

* Optique et électronique quantiques. Quantum optics and electronics. Lectures delivered at Les Houches during the 1964 session of the Summer School of Theoretical Physics, University of Grenoble. Edited by C. DeWitt, A. Blandin, C. Cohen and Tannoudji. *Gordon and Breach, Science Publishers, New York-London-Paris,* 1965. ix + 621 *pp.* (Editors) 32 #3432

Summer School on Theoretical Physics

* Letnia Szkoła Fyziki Teoretycznej (Dolina Chochołowska, 1963). (Polish) [Summer School on Theoretical Physics held at Dolina Chochołowska, 1963] *Zeszyty Nauk. Uniw. Jagiello.* 104 *Prace Fiz. zeszyt* 3 (1965) 1-156 (1 *plate*) (Editors) 34 #7313

Summer Seminar in Applied Mathematics

* Space mathematics. Part 1. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 5. *American Mathematical Society, Providence, R. I.,* 1966. xvi + 296 *pp.* (Editors) 34 #2397a

* Space mathematics. Part 2. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 6. *American Mathematical Society, Providence, R. I.,* 1966. v + 258 *pp.* (Editors) 34 #2397b

* Space mathematics. Part 3. Edited by J. Barkley Rosser. Lectures in Applied Mathematics, Vol. 7. *American Mathematical Society, Providence, R. I.,* 1966. v + 315 *pp.* (Editors) 34 #2397c

Summer Session on the Theory of Ordered Sets and General Algebra

* Summer Session on the Theory of Ordered Sets and General Algebra (Held at Cikháj, 1969). *Faculty of Science, University of J. E. Purkyně, Brno,* 1969. 126 *pp.* (Editors) 42 #9

Sverdlovsk notebook

* Свердловская тетрадь (Нерешенные задачи теории полугрупп). (Russian) [Sverdlovsk notebook (Unsolved problems of the theory of semigroups)] *Ural. Gosudarstv. Univ., Sverdlovsk,* 1969. 12 *pp.* (Editors) 42 #7807

Swedish-Russian technical dictionary

* Шведско-русский политехнический словарь. (Russian) [Swedish-Russian technical dictionary] Compiled by V. F. Maksimov; Edited by L. Ja. Popilov and I. V. Èĭhval'd. *Izdat. "Sovetskaja Ènciklopedija", Moscow,* 1964. 1257 *pp.* (Editors) 29 #3331

Switching theory

* Recent developments in switching theory. Edited by Amar Mukhopadhyay. *Academic Press, New York-London,* 1971. xiii + 436 *pp.* (Editors) 43 #4572

Switching theory in space technology

* Switching theory in space technology. Edited by Howard Aiken and William F. Main. *Stanford University Press, Stanford, Calif.,* 1963. x + 357 *pp.* (Editors) 29 #2133

Symbolic languages in data processing

Theory of languages--list processing and processors for symbol manipulation languages. *Symbolic Languages in Data Processing (Proc. Sympos. Internat. Comput. Centre, Rome,* 1962), *pp.* 111-204. *Gordon and Breach, New York,* 1962. (B. A. Galler) 30 #5849

* Symbolic languages in data processing. Proceedings of the Symposium organized and edited by the International Computation Centre, Rome, March 26-31, 1962. *Gordon and Breach Science Publishers, New York-London,* 1962. xii + 849 *pp.* (Editors) 31 #2847

Theory of languages--syntactical structure and meta languages. *Symbolic Languages in Data Processing (Proc. Sympos. Internat. Comput. Centre, Rome,* 1962), *pp.* 1-110. *Gordon and Breach, New York,* 1962. (S. Marcus) 31 #2848

Construction of processors for syntactically highly structurized languages. *Symbolic Languages in Data Processing (Proc. Sympos. Internat. Comput. Centre, Rome,* 1962), *pp.* 205-381. *Gordon and Breach, New York,* 1962. (L. A. Lombardi) 31 #2849

Design of problem oriented languages--ALGOL and competitors. *Symbolic Languages in Data Processing (Proc. Sympos. Internat. Comput. Centre, Rome,* 1962), *pp.* 383-570. *Gordon and Breach, New York,* 1962. (L. A. Lombardi) 31 #2850

Design of special languages. *Symbolic Languages in Data Processing (Proc. Sympos. Internat. Comput. Centre, Rome,* 1962), *pp.* 643-774. *Gordon and Breach, New York,* 1962. (L. L. Bumgarner) 31 #2851

Symmetry groups in nuclear and particle physics

* Symmetry groups in nuclear and particle physics. A lecture-note and reprint volume. Edited by Freeman J. Dyson. *W. A. Benjamin, Inc., New York-Amsterdam,* 1966. xii + 320 *pp.* (R. Jost) 33 #5293

Symmetry principles at high energy

* Coral Gables Conference on Symmetry Principles at High Energy. January 30-31, 1964, University of Miami. Edited by Behram Kurşunoğlu and Arnold Perlmutter. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1964. viii + 171 *pp.* (P. Roman) 29 #5565

* Coral Gables Conferences on Symmetry Principles at High Energy. Second Conference, January 20-22, 1965, University of Miami. Behram Kurşunoğlu, Arnold Perlmutter and Ismail Sakmar, Editors. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1965. viii + 438 *pp.* (Editors) 31 #4447

* Coral Gables Conferences on Symmetry Principles at High Energy. Third Conference, January 19-21, 1966, Center for Theoretical Studies, University of Miami. Edited by Arnold Perlmutter, Joseph Wojtaszek, George Sudarshan and Behram Kurşunoğlu. *W. H. Freeman and Co., San Francisco, Calif.-London,* 1966. vi + 282 *pp.* (Editors) 33 #7025

Symposia mathematica

* Symposia mathematica. Vol. I. Convegni del Dicembre del 1967 e dell' Aprile del 1968. Istituto Nazionale di Alta Matematica Roma. *Academic Press, London-New York,* 1969. iii + 441 *pp.* (Editors) 39 #3944

* Symposia mathematica. Vol. II. Convegni del Marzo e del Maggio del 1968. Istituto Nazionale di Alta Matematica, Roma. *Academic Press, London-New York,* 1969. (Editors) 40 #2484

* Symposia mathematica. Vol. III. Convegni del Novembre del 1968 e del Febbraio 1969. Istituto Nazionale di Alta Matematica, Roma. *Academic Press, London-New York,* 1970. iv + 496 *pp.* (Editors) 41 #1466

* Symposia mathematica. Vol. IV. Convegni del Dicembre del 1968 e del Marzo del 1969. Istituto Nazionale di Alta Matematica, Roma. *Academic Press, London-New York,* 1970. iv + 542 *pp.* (Editors) 42 #4354

* Symposia mathematica. Vol. V. Convegni del Novembre del 1969 e dell'Aprile del 1970. Istituto Nazionale di Alta Matematica. Roma. *Academic Press, London-New York,* 1971. 474 *pp.* (Editors) 42 #7462

* Symposia mathematica. Vol. VI. Convegno del Febbraio del 1970. Istituto Nazionale di Alta Matematica, Roma. *Academic Press, London-New York,* 1971. iv + 403 *pp.* (Editors) 43 #3064

Symposia in Numerical Solution of Nonlinear Problems

* Studies in numerical analysis, 2: Numerical solutions of nonlinear problems. A collection of papers presented at Symposia in Numerical Solution of Nonlinear Problems sponsored by the Office of Naval Research at the Fall meeting of the Society for Industrial and Applied Mathematics held at Philadelphia, Pennsylvan October 21-23, 1968. Edited by James M. Ortega and Werner C. Rheinboldt. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1970. iv + 143 *pp.* (Editors) 42 #1302

Symposia in Pure Mathematics

* Number theory. Proceedings of Symposia in Pure Mathematics, Vol. XII. Edited by William J. LeVeque and Ernst G. Straus. *American Mathematical Society, Providence, R. I.,* 1969. v + 98 *pp. (loose errata)* (Editors) 40 #2592

* Applications of categorical algebra. Proceedings of Symposia in Pure Mathematics, Vol. XVII. Edited by Alex Heller. *American Mathematical Society, Providence, R. I.,* 1970. v + 231 *pp.* (Editors) 40 #5372

Symposia on theoretical physics

* Symposia on theoretical physics, Vol. 4. Lectures presented at the Third Anniversary Symposium of the Institute of Mathematical Sciences, Madras, 1965. Edited by Alladi Ramakrishnan *Plenum Press, New York,* 1967. xiii + 161 *pp.* (Table of contents) 40 #3799

* Symposia on theoretical physics, Vol. 5. Lectures presented at the Summer School of the Institute of Mathematical Sciences, Madras, 1965. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1967. xi + 218 *pp.* (Table of contents) 40 #3800

Symposia on Theoretical Physics and Mathematics

* Symposia on theoretical physics and mathematics, Vol. 6. Lectures presented at the 1966 Fourth Anniversary Symposium of the Institute of Mathematical Sciences, Madras, India. Edited by Alladi Ramarkrishnan. *Plenum Press, New York,* 1968. xii + 294 *p* (Editors) 37 #6075

* Symposia on theoretical physics and mathematics, Vol. 8. Lectures presented at the Fifth Anniversary Symposium of the Institute of Mathematical Sciences, Madras, 1967. Edited by Alladi Ramarkrishnan. *Plenum Press, New York,* 1968. xii + 200 *pp.* (Editors) 38 #3102

* Symposia on theoretical physics and mathematics, Vol. 7. Lectures presented at the Summer School of the Institute of Mathematical Sciences, Madras, 1966. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1968. xii + 193 *pp.* (Table of contents) 40 #3801

* Symposia on theoretical physics and mathematics, Vol. 9. Lectures presented at the 1968 Sixth Anniversary Symposium of the Institute of Mathematical Sciences, Madras, India. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1969. xiii + 277 *pp.* (Editors) 40 #1227

* Symposia on theoretical physics and mathematics, Vol. 10. Lectures presented at the 1969 Seventh Anniversary Symposium of the Institute of Mathematical Sciences, Madras, India. Edited by Alladi Ramakrishnan. *Plenum Press, New York-London,* 1970. xiii + 157 *pp.* (Editors) 41 #3208

Symposium

* Topological dynamics. An international symposium. Edited by Joseph Auslander and Walter H. Gottschalk. *W. A. Benjamin, Inc., New York-Amsterdam,* 1968. xv + 522 *pp.* (Editors) 38 #2762

* Kuramochi boundaries of Riemann surfaces. A Symposium held at the Research Institute for Mathematical Sciences, Kyoto University, October 1965. Lecture Notes in Mathematics, No. 58. *Springer-Verlag, Berlin-New York,* 1968. iii + 102 *pp.* (Editors) 38 #3424

* Foundations of mathematics. Symposium papers commemorating the sixtieth birthday of Kurt Gödel. Edited by Jack J. Bulloff, Thomas C. Holyoke and S. W. Hahn. *Springer-Verlag New York Inc., New York,* 1969. xii + 195 *pp.* (1 *plate*) (Editors) 39 #2594

Symposium in Analysis, Proceedings

* Proceedings of the Symposium in Analysis, Queen's University, June, 1967. Queen's Papers in Pure and Applied Mathematics, No. 10. *Queen's University, Kingston, Ont.,* 1967. v + 250 *pp. (mimeographed)* (Editors) 36 #4939

Symposium on the Applications of Generalized Functions

* The applications of generalized functions. Papers presented at a Symposium held in Stony Brook, N. Y., September 12-14, 1966. SIAM J. Appl. Math. 15 (1967), 925-1111. *SIAM, Philadelphia, Pa.,* 1967. (Editors) 36 #1973

Symposium on Automatic Demonstration

* Symposium on Automatic Demonstration (held at Versailles, France, December 1968). Edited by M. Laudet, D. Lacombe, L. Nolin and M. Schützenberger. Lecture Notes in Mathematics, Vol. 125. *Springer-Verlag, Berlin-New York,* 1970. v + 310 *pp. (loose errata)* (Editors) 42 #2716

Symposium on Combinatorial Problems

* Proceedings of the IBM Scientific Computing Symposium on Combinatorial Problems. *IBM Data Processing Division, White Plains, N. Y.,* 1966. xvii + 261 *pp.* (Editors) 35 #2699

Symposium on Computer Augmentation of Human Reasoning

* Symposium on computer augmentation of human reasoning. Proceedings of a Symposium held June 16-17, 1964, at the Department of State, Washington, D. C. Edited by Margo A. Sass and William D. Wilkinson. *Spartan Books, Inc., Washington, D. C.; Macmillan and Co., Ltd., London,* 1965. vi + 235 *pp.* (Editors) 34 #983

Symposium on Control Theory and Applications

* Proceedings of the IBM Scientific Computing Symposium on Control Theory and Applications. *IBM Data Processing Division, White Plains, N. Y.,* 1966. xvii + 248 *pp.* (Editors) 35 #4032

Symposium on Differential Equations

* Материалы республиканского симпозиума по дифференциальным уравнениям (Одесса, 1968 г.). (Russian) [Abstracts of the Republican Symposium on Differential Equations (Odessa, 1968)] *Odesskiĭ Gosudarstv. Univ. Odessa,* 1968. 236 *pp.* (Editors) 40 #7054

Symposium on Infinitary Logic

* The syntax and semantics of infinitary languages. Edited by Jon Barwise. Lecture Notes in Mathematics, No. 72. *Springer-Verlag, Berlin-New York,* 1968. iii + 268 *pp.* (Editors) 38 #3141

Symposium of the Institute of Mathematics and its Applications

* Optimization. Symposium of the Institute of Mathematics and its Applications, University of Keele, England, 1968. Edited by R. Fletcher. *Academic Press, London-New York,* 1969. xviii + 354 *pp.* (Editors) 42 #1626

Sympos. Joint Automatic Control Council

* Stochastic problems in control. A Symposium of the American Automatic Control Council. 1968 Joint Automatic Control Conference (University of Michigan, Ann Arbor, Mich., June 26, 1968). *The American Society of Mechanical Engineers, New York,* 1968. iii + 120 *pp.* (Editors) 38 #3064

Symposium at Keszthely

* Quantum theory of systems with many degrees of freedom. Symposium held at Keszthely, September, 1964. Edited by P. Gombás. Acta Phys. Acad. Sci. Hungar., Vol. 19. *Akadémiai Kiadó, Budapest,* 1965. 363 *pp.* (Editors) 34 #5404

Symposium on Mathematical Optimization Techniques (October 18-20, 1960, Santa Monica, Calif.). See Mathematical optimization techniques.

Sympos. Math. Statist.

* Studies in mathematical statistics: Theory and applications. Edited by K. Sarkadi and I. Vincze. *Akadémiai Kiadó [Publishing House of the Hungarian Academy of Sciences], Budapest,* 1968. 210 *pp.* (Editors) 37 #2346

Symposium on Mathematical Statistics and Probability, Proceedings

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 1. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of Califormai Press, Berkeley, Calif.,* 1967. xvi + 447 *pp.* (Editors) 35 #2303

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. II: Contributions to probability theory. Part 2. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 483 *pp.* (Editors) 35 #2304

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. I: Statistics. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvii + 666 *pp.* (Editors) 35 #2383

* Proceedings of the Fifth Berkeley Symposium on Mathematical Statistics and Probability. Vol. III: Physical Sciences. Held at the Statistical Laboratory of the University of California, June 21-July 18, 1965 and December 27, 1965-January 7, 1966. Edited by Lucien M. Le Cam and Jerzy Neyman. *University of California Press, Berkeley, Calif.,* 1967. xvi + 324 *pp.* (1 *plate)* (Editors) 36 #6033

Sympos. Methods of Solution of Nonlinear Partial Differential Equations

* Nonlinear partial differential equations: A symposium on methods of solution. Edited by W. F. Ames. *Academic Press, New York-London,* 1967. xv + 316 *pp.* (Editors) 36 #510

Symposium on Nonlinear Programming

* Nonlinear programming. Proceedings of a Symposium Conducted by the Mathematics Research Center, The University of Wisconsin, Madison, May 4-6, 1970. Edited by J. B. Rosen, O. L. Mangasarian and K. Ritter. Publication No. 25 of the Mathematics Research Center, The University of Wisconsin. *Academic Press, New York-London,* 1970. xii + 490 *pp.* (Editors) 42 #7288

Symposium on Optimization

* Symposium on Optimization (held in Nice, June 29th-July 5th, 1969). Edited by A. V. Balakrishnan, M. Contensou, B. F. de Veubeke, P. Krée, J. L. Lions and N. N. Moiseev. Lecture Notes in Mathematics, Vol. 132. *Springer-Verlag, Berlin-New York,* 1970. iii + 350 *pp.* (Editors) 41 #7828

Symposium on Partial Differential Equations

* Outlines of the Joint Soviet-American Symposium on Partial Differential Equations (Novosibirsk, August, 1963). *Academy of Sciences of the USSR, Siberian Branch, Moscow,* 1963. 378 *pp.* (Editors) 33 #7726

Symposium on Probability Methods in Analysis

* Symposium on probability methods in analysis. Lectures delivered at a Symposium at Loutraki, Greece, May 5 to June 4, 1966. Lecture Notes in Mathematics, No. 31. *Springer-Verlag, Berlin-New York,* 1967. iv + 329 *pp.* (Editors) 36 #5

Symposium on Quantitative Epidemiology

* WHO Symposium on Quantitative Epidemiology, Moscow 23-27 November 1970. *Advances in Appl. Probability* 3 (1971), 193-228. (Editors) 44 #5129

Symposium on Rheology

* Symposium on rheology. Presented at ASME Applied Mechanics and Fluids Engineering Conference, Catholic University of America, Washington, D. C., June 7-9, 1965. Edited by A. W. Marris and J. T. S. Wang. *American Society of Mechanical Engineers, New York,* 1965. iv + 188 *pp.* (Editors) 33 #5421

Symposium on Semantics of Algorithmic Languages

* Symposium on semantics of algorithmic languages. Edited by E. Engeler. Lecture Notes in Mathematics, Vol. 188. *Springer-Verlag, Berlin-New York,* 1971. vi + 372 *pp.* (Editors) 43 #1477

Symposium on System Theory

* Proceedings of the Symposium on System Theory. New York, N. Y., April 20, 21, 22, 1965. Microwave Research Institute Symposia Series, Vol. XV. *Polytechnic Press, Polytechnic Institute of Brooklyn, N. Y. (distributed by Interscience Publishers [A Division of John Wiley & Sons, Inc.], New York-London),* 1965. xxviii + 380 *pp.* (Editors) 41 #5077

Symposium on the Theory of Abelian Groups

* Studies on Abelian groups. Edited by B. Charles. Symposium on the Theory of Abelian Groups, held at Montpellier University in June 1967. *Springer-Verlag, Berlin-New York; Dunod, Paris,* 1968. v + 356 *pp.* (Editors) 39 #1546

Symposium on Theory and Application of Generalized Inverses of Matrices

* Proceedings of the Symposium on Theory and Application of Generalized Inverses of Matrices. Held at the Department of Mathematics, Texas Technological College, Lubbock, Texas, March 1968. Edited by Thomas L. Boullion and Patrick L. Odell. Mathematics Series, No. 4. *Texas Tech. Press, Lubbock, Tex.,* 1968. iii + 315 *pp.* (Editors) 40 #1402

Symposium on the Theory of Rings and Modules

* Первый всесоюзный симпосиум по теории колец и модулей (Кишинёв, 1968). (Russian) [First All-union Symposium on the Theory of Rings and Modules (Kishinev, 1968)] Abstracts of communications and papers. V. A. Steklov Institute of Mathematics of the Academy of Sciences of the USSR. Institute of Mathematics of the Siberian Branch of the Academy of Sciences of the USSR. Moscow State University. Institute of Mathematics with Computing Center of the Academy of Sciences of the Moldavian SSR. Kishinev State University. *Akad. Nauk Moldav. SSR, Kishinev,* 1968. 43 *pp.* (Editors) 39 #1481

Symposium on Topology

* Mathematics Colloquium and 1969 Symposium on Topology, University of Cape Town, Vol. V: Abstracts of talks delivered during 1969. *Department of Mathematics, University of Cape Town, Cape Town,* 1970. iv + 77 *pp.* (Table of contents) 43 #3062

Symposium Transsonicum

* Symposium transsonicum. International Union of Theoretical and Applied Mechanics, Aachen, Sept. 3-7, 1962. Edited by Klaus Oswatitsch. *Springer-Verlag, Berlin,* 1964. xviii + 490 *pp.* (Editors) 33 #3548

Symposium on Trends in Lattice Theory

* Trends in lattice theory. Edited by J. C. Abbott. Symposium held at the United States Naval Academy in May of 1966. Van Nostrand Reinhold Mathematical Studies, No. 31. *Van Nostrand Reinhold Co., New York-Toronto, Ont.-London,* 1970. ix + 215 *pp.* (Editors) 42 #5863

Symposium on Utilization of Computers

* Computers in mathematical research. Edited by R. F. Churchhouse and J.-C. Herz. *North-Holland Publishing Co., Amsterdam,* 1968. xi + 185 *pp.* (Editors) 38 #1972

Symposium on Weak Interactions

* Symposium on weak interactions (Balatonvilágos, 31 May-5 June, 1966). Organized by the Roland Eötvös Physical Society. Supported by the Hungarian Academy of Sciences. Acta Physica Acad. Sci. Hungaricae, Tomus XXII. *Akadémiai Kiadó, Budapest,* 1967. 387 *pp.* (Editors) 35 #1278

SYNSPADE 1970

* Numerical solution of partial differential equations. II (SYNSPADE 1970). Proceedings of the Second Symposium, held at the University of Maryland, College Park, Md., May 11-15, 1970. Edited by Bert Hubbard. *Academic Press, New York-London,* 1971. ix + 649 *pp.* (Editors) 42 #8711

Syntax and semantics of infinitary languages

* The syntax and semantics of infinitary languages. Edited by Jon Barwise. Lecture Notes in Mathematics, No. 72. *Springer-Verlag, Berlin-New York,* 1968. iii + 268 *pp.* (Editors) 38 #3141

Systematic bibliography of articles that were published in periodical publications of the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR

* Систематический указательстатей, опубликованных в журнальных изданиях Института математики АН УССР (1934-1968 гг.). (Russian) [A systematic bibliography of articles that were published in periodical publications of the Institute of Mathematics of the Academy of Sciences of the Ukrainian SSR (1934-1968)] Compiled by M. N. Kreknina. Edited by E. Ja. Remez. *Akad. Nauk Ukrain. SSR Inst. Mat., Kiev,* 1971. 151 *pp.* (Editors) 44 #3

Systematic index to "Učenye Zapiski Moskovskogo Universiteta"

* Систематический указательк "Ученым запискам Московского университета" (1833-1961). (Russian) [Systematic index to "Učenye Zapiski Moskovskogo Universiteta" (1833-1961)] *Izdat. Moskov. Univ., Moscow,* 1969. 176 *pp. (errata insert)* (Editors) 41 #1467

Systèmes à un nombre infini de degrés de liberté

* Systèmes à un nombre infini de degrés de liberté. Actes du Colloque International, Gif-sur-Yvette, 7-10 mai 1969. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 181. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1970. 200 *pp.* (Editors) 44 #1277

Systems and computer science

* Systems and computer science. Proceedings of a conference held at the University of Western Ontario, London, Ont., September 10-11, 1965. Edited by John F. Hart and Satoru Takasu. *University of Toronto Press, Toronto, Ont.,* 1967. xi + 249 *pp.* (Editors) 38 #1976

System theory

* Proceedings of the Symposium on System Theory. New York, N. Y., April 20, 21, 22, 1965. Microwave Research Institute Symposia Series, Vol. XV. *Polytechnic Press, Polytechnic Institute of Brooklyn, Brooklyn, N. Y. (distributed by Intersicence Publishers [A Division of John Wiley & Sons, Inc.], New York-London),* 1965. xxviii + 380 *pp.* (Editors) 41 #5077

Systems theory

* Общая теория систем. (Russian) [General systems theory] Translated from the English by V. Ja. Altaev and È. L. Nappel'baum. *Izdat. "Mir", Moscow,* 1966. 187 *pp.* (Editors) 37 #1196

Tables

(See Tölke, Friedrich, 41 #7157 and Williamson, Eric; Bretherton, Michael H., 29 #681)

* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce P_n^m (cos θ). Deuxième fascicule: [n: —0,5(0,1)10] [m: 0(1)2] [θ: 0°(1°)180°]. Calculées pour le Centre National d'Études des Télécommunications, sous le contrôle du Laboratoire de Calcul de l'Université de Grenoble. Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C. N. E. T. Centre National d'Études des Télécommunications, Paris,* 1959. xii + 640 *pp.* (3 *plates*) (A. Erdélyi) 35 #1175a

* Tables for the distribution and density functions of *t*-distribution ("Student's" distribution). Edited by N. V. Smirnov. Text translated from the Russian by Prasenjit Basu. Mathematical Tables Series, Vol. 16. *Pergamon Press, New York-London-Paris,* 1961. 129 *pp.* (Editors) 34 #6899

* Zbornik matematičkih problema sa prilozima i numeričkim tablicama. I. (Serbo-Croatian) [Collection of mathematical problems with appendices and numerical tables. I] Third edition. Edited by D. S. Mitrinović. *Zavod za Izdavanje Udžbenika, Belgrade,* 1962. xvi + 502 *pp.* (J. V. Wehausen) 29 #5702

* Таблицы присоединенных функций Лежандра. (Russian) [Tables des fonctions de Legendre associées] Recalculation of the tables and translation of the French text by L. S. Bark, M. I. Žurina and L. N. Karmazina. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1962. 322 *pp.* (John Todd) 30 #280

* Таблицы и формулы функций В. К. Туркина $T_m^{(1)}(x,\alpha) = \sum_{n=-\infty}^{\infty} J_n(x)J_{n-m}(x)/n-\alpha$. (Russian) [Tables and formulas for Turkin's functions $T_m^{(1)}(x,\alpha) = \sum_{n=-\infty}^{\infty} J_n(x)J_{n-m}(x)/n-\alpha$]. *Ministerstvo Svjazi SSSR, Leningrad,* 1963. 91 *pp.* (John Todd) 32 #5927

* Таблицы функций Бесселя $Y_0(z)$ и $Y_1(z)$ в комплексной области. (Russian) [Tables of the Bessel functions $Y_0(z)$ and $Y_1(z)$ in the complex domain] Tables revised and the text translated from the English by V. I. Pagurova. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1963. 428 *pp.* (Editors) 40 #6724

* Bessel functions. Part IV: Kelvin functions. Prepared on behalf of The Mathematical Tables Committee by Andrew Young and Alan Kirk. Royal Society Mathematical Tables, Vol. 10. *Published for the Royal Society at the Cambridge University Press, New York,* 1964. xxiii + 97 *pp.* (John Todd) 29 #1363

* Handbook of mathematical functions with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. National Bureau of Standards Applied Mathematics Series, Vol. 55. *National Bureau of Standards, Washington, D. C.,* 1964 *(for sale by the Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 204020. xiv + 1046 *pp.* (D. H. Lehmer) 29 #4914

(See also Bracken, Jerome; Schleifer, Arthur, Jr., 29 #682; Mansell, W. E., 29 #3675; Curtis, A. R., 29 #4915 and 29 #4916; Karpov, K. A., 29 #4917; Hahn, Dietrich; Metzdorf, Joachim; Schley, Ulrich; Verch, Joachim, 29 #5514; Žurina, M. I., 29 #6609; Harter, H. Leon, 30 #1562; Faddeev, D. K., 30 #3175; and Borovkov, A. A.; Markova, N. P.; Syčeva, N. M., 42 #2623)

* Tables of the normal probability integral, the normal density, and its normalized derivatives. Edited by N. V. Smirnov. Translated by D. E. Brown. Mathematical Tables Series, Vol. 32. *A Pergamon Press Book. The Macmillan Co., New York,* 1965. xvi + 125 *pp.* (John Todd) 31 #860

* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. Third printing, with corrections. National Bureau of Standards Applied Mathematics Series, Vol. 55. *Superintendent of Documents, U. S. Government Printing Office, Washington, D. C.,* 1965. xiv + 1046 *pp.* (Editors) 31 #1400

(See also Karpov, K. A., 30 #4992; Barnett, V. D., 31 #1760; Korobočkin, B. I.; Filippov, Ju. A., 32 #5926; Lal, M.; Jones, M. F.; Blundon, W. J., 33 #91; Mangulis, V., 33 #2990; McCollum, Paul A.; Brown, Buck F., 33 #3056; Hiorns, R. W., 33 #3439; Gradšteĭn, I. S.; Ryžik, I. M., 33 #5952; Fettis, Henry E.; Caslin, James C., 34 #1566; Gardner, W. K.; Wright, E. B., 34 #2143; Nikiforov, A. F.; Uvarov, V. B.; Levitan, Ju. L., 34 #2298; Žurina, M. I.; Karmazina, L. N., 34 #4566)

* Supplement to tables for testing significance in a 2 × 2 contingency table. Five and one per cent significance points for $41 \leqq A \leqq 50$, $B \leqq A$. Prepared by B. M. Bennett and C. Horst. *Published for the Biometrika Trustees by Cambridge University Press, London,* 1966. i + 28 *pp.* (H. L. Harter) 32 #6582

* Biometrika tables for statisticians. Vol. I. Edited by E. S. Pearson and H. O. Hartley. Third edition. *Published for the Biometrika Trustees by the Cambridge University Press, London-New York-Ibadan,* 1966. xvi + 264 *pp. (pocket with scales attached)* (D. M. Sandelius) 34 #8535

* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. *Dover Publications, Inc., New York,* 1966. xiv + 1046 *pp.* (Editors) 34 #8606

* Handbook of mathematical functions, with formulas, graphs, and mathematical tables. Edited by Milton Abramowitz and Irene A. Stegun. Fifth printing, with corrections. National Bureau of Standards Applied Mathematics Series, Vol. 55. *National Bureau of Standards, Washington, D. C.,* 1966 *(for sale by the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C.,* 20402). xiv + 1046 *pp.* (Editors) 34 #8607

* Таблицы функций Кельвина. (Russian) [Tables of Kelvin functions] Revision of tables and translation of the text from the English by K. S. Il'in and L. N. Osipova. Library of Mathematical Tables, No. 41. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1966. xx + 98 *pp.* (John Todd) 34 #8608

* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce $P_N^M(\cos\theta)$. Troisième fascicule: [$N = --0,5(0,1)10$] [$M = 3,4,5$] [$\theta = 0°(1°)180°$]. Calculées pour le Centre National d'Études des Télécommunications, par le Laboratoire de Calcul de l'Université de Grenoble. Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C. N. E. T. Centre National d'Études des Télécommunications, Paris,* 1966. xii + 1296 *pp.* (3 *plates*) (A. Erdélyi) 35 #1175b

* British Association for the Advancement of Science. Mathematical Tables, Volume IV: Cycles of reduced ideals in quadratic fields. Prepared by E. L. Ince on behalf of the British Association Committee for the Calculation of Mathematical Tables. *Published for the Royal Society at the Cambridge University Press, London,* 1966. xvi + 80 *pp.* (Editors) 36 #6382

* Таблицы обобщенных интегральных синусов и косинусов: Том II. (Russian) [Tables of generalized sine- and cosine-integral functions: Vol. II] Tables revised and translated from the English by L. S. Bark and K. S. Il′in. *Vyčisl. Centr. Akad. Nauk SSSR, Moscow,* 1966. xxvii + 561 *pp.* (Editors) 39 #5038

(See also Mitrinovic, D. S.; Mitrinović, R. S., 33 #1269; Zagrebin, D. V., 33 #6811; Agrest, M. M.; Bekauri, I. N.; Maksimov, M. Z.; Orlov, L. A.; Rikenglaz, M. M.; Haĭhjan, N. V.; Čačibaja, C. Š., 33 #7585; Dekanosidze, E. N., 34 #926; Fettis, Henry E.; Caslin, James C., 34 #1567 and 34 #2949; David, F. N.; Kendall, M. G.; Barton, D. E., 34 #2099; Clenshaw, C. W.; Picken, Susan M., 34 #2948; Žurina, M. I.; Karmazina, L. N., 34 #2950; Graf, Ulrich; Henning, Hans-Joachim; Stange, Kurt, 34 #5182; Kelley, Truman Lee, 34 #5183; Krishna Iyer, P. V.; Simha, P. S., 34 #8527; Owen, D. B., 34 #8530; Jahnke, Eugene; Emde, Fritz; Lösch, Friedrich, 34 #8604; Warmus, Mieczysław, 34 #8605; Bailey, Leslie F., 35 #1173; Schütte, Karl, 35 #2453; Tölke, Friedrich, 35 #3089; Aĭzenštat, V. S.; Krylov, V. I.; Metel′skiĭ, A. S., 36 #3489; and Sheppard, W. F., 37 #7065)

* Tables relating to Mathieu functions. Characteristic values coefficients, and joining factors. Second edition. National Bureau of Standards Applied Mathematics Series, No. 59. *U. S. Government Printing Office, Washington, D. C.,* 1967. xlviii + 311 *pp.* (Editors) 35 #7559

* Таблицы для вычисления функций Матье. Собственные значения, коэффициенты и множители связи. (Russian) [Tables for the computation of Mathieu functions. Characteristic values, coefficients and joining factors] Tables revised and translated from the English by R. D. Vedeškina and A. P. Čerenkov. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. xliii + 279 *pp.* (Editors) 39 #5037

(See also Žurina, M. I.; Karmazina, L. N., 35 #1174; Harter, H. Leon; Dubey, Satya D., 35 #2388; Tölke, Friedrich, 36 #433 and 37 #1653; Groenewoud, C.; Hoaglin, D. C.; Vitalis, J. A., 36 #2242; and Wetzel, Wolfgang; Jöhnk, Max-Detlev; Naeve, Peter; 36 #4670)

* Tables of the incomplete beta-function. Originally prepared under the direction of and edited by Karl Pearson. Second edition, with a new introduction by E. S. Pearson and N. L. Johnson. *Published for the Biometrika Trustees at the Cambridge University Press, London,* 1968. xxxii + 505 *pp.* (Editors) 37 #2402

(See also Tölke, Friedrich, 37 #4292 and 39 #3040; Hayek, Nácere, 38 #5366; Bol′šev, L. N.; Smirnov, N. V., 39 #4971; Peters, Jean, 39 #5036; Karpov, K. A.; Čistova, È. A., 39 #6482; Western, A. E.; Miller, J. C. P.; 39 #7792; Glembockis, J.; Karazija, R.; Strockytė, T.; Uldukytė, V.; Vizbaraitė, J., 39 #7912; Bateman, Harry; Erdélyi, Arthur; Magnus, V.; Oberhettinger, F.; Tricomi, F. G., 40 #650; Cutris, A. R., 40 #2210; Fettis, Henry E.; Caslin, James C., 40 #6725 and 40 #6726; Jakovleva, G. D., 41 #2876; Kuznecova, T. D.; Smirnov, Ju. N., 41 #2877; Nefëdov, E. I., 42 #1304; Rabotnov, Ju. N.; Papernik, L. H.; Zvonov, E. N., 42 #5420; and Bonnet, M.; Julg, A.; Queffelec, J. F.; Tardy, J. C., 43 #4399)

* Selected tables in mathematical statistics. Vol. I. Edited by H. L. Harter and D. B. Owen. Sponsored by The Institute of Mathematical Statistics. *Markham Publishing Co., Chicago, Ill.,* 1970. vii + 405 *pp.* (R. V. Hogg) 42 #1250

* Таблицы вероятностных функций. Том I: $H'(x) = 2\pi^{-1/2}e^{-x^2}$ и $H(x) = 2\pi^{-1/2}\int_0^x e^{-\alpha^2}\,d\alpha$. (Russian) [Tables of probability functions. Vol. I: $H'(x) = 2\pi^{-1/2}e^{-x^2}$ and $H(x) = 2\pi^{-1/2}\int_0^x e^{-\alpha^2}\,d\alpha$] Technical director: Arnold N. Lowan. Processing of tables and translation of the text from the English by L. S. Bark. Second stereotyped edition. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1970. xvi + 302 *pp.* (Editors) 43 #1378

(See also Intrau, Oskar, 42 #4488; Hauptman, Herbert; Vegh, Emanuel; Fisher, Janet, 42 #5886; and Tölke, Friedrich, 43 #6466)

Tables of the Clebsch-Gordan coefficients

* Tables of the Clebsch-Gordan coefficients. Compiled by the Institute of Atomic Energy, Academia Sinica. *Science Press, Peking,* 1965. vi + 564 *pp.* (A. C. T. Wu) 35 #3973

Tables for the computation of Mathieu functions. Characteristic values, coefficients and joining factors

* Таблицы для вычисления функций Матье. Собственные значения, коэффициенты и множители связи. (Russian) [Tables for the computation of Mathieu functions. Characteristic values, coefficients and joining factors] Tables revised and translated from the English by R. D. Vedeškina and A. P. Čerenkov. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1967. xliii + 279 *pp.* (Editors) 39 #5037

Tables of generalized sine- and cosine-integral functions

* Таблицы обобщенных интегральных синусов и косинусов: Том II. (Russian) [Tables of generalized sine- and cosine-integral functions: Vol. II] Tables revised and translated from the English by L. S. Bark and K. S. Il′in. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1966. xxvii + 561 *pp.* (Editors) 39 #5038

Tables of the incomplete beta-function

* Tables of the incomplete beta-function. Originally prepared under the direction of and edited by Karl Pearson. Second edition, with a new introduction by E. S. Pearson and N. L. Johnson. *Published for the Biometrika Trustees at the Cambridge University Press, London,* 1968. xxxii + 505 *pp.* (Editors) 37 #2402

Tables of integral transforms

(See Inawashiro, Sakari; Katsura, Shigetoshi; Bradley, Lee C., 41 #2305)

Tables of Kelvin functions

* Таблицы функций Кельвина. (Russian) [Tables of Kelvin functions] Revision of tables and translation of the text from the English by K. S. Il′in and L. N. Osipova. Library of Mathematical Tables, No. 41. *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1966. xx + 98 *pp.* (John Todd) 34 #8608

Tables of the logarithmic derivative of the gamma-function and its derivatives in the complex domain

* Таблицы логарифмической производной гамма-функции и ее производных в комплексной области. (Russian) [Tables of the logarithmic derivative of the gamma-function and its derivatives in the complex domain] *Vyčisl. Centr Akad. Nauk SSSR, Moscow,* 1965. 364 *pp.* (1 *insert*) (Walter Gautschi) 33 #856

Tables numériques des fonctions associées de Legendre

* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce $P_n^m(\cos\theta)$. Deuxième fascicule: [n:--0,5(0,1)10] [m: 0(1)2] [θ: 0°(1°)180°] Calculées pour le Centre National d'Études des Télécommunications, sous le contrôle du Laboratoire de Calcul de l'Université de Grenoble. Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C. N. E. T. Centre National d'Études des Télécommunications, Paris,* 1959. xii + 640 *pp.* (3 *plates*) (A. Erdélyi) 35 #1175a

* Tables numériques des fonctions associées de Legendre. Fonction associée de première espèce $P_N^M(\cos\theta)$. Troisième fascicule: [$N = --0,5(0,1)10$] [$M = 3,4,5$] [$\theta = 0°(1°)180°$]. Calculées pour le Centre National d'Etudes des Telecommunications, par le Laboratoire de Calcul de l'Université de Grenoble. Ouvrage publié avec le concours du Centre national de la Recherche Scientifique. *Éditions de la Revue d'Optique; Collection Technique et Scientifique du C. N. E. T. Centre National d'Études des Télécommunications, Paris,* 1966. xii + 1296 *pp.* (3 *plates*) (A. Erdélyi) 35 #1175b

Tables relating to Mathieu functions

* Tables relating to Mathieu functions: Characteristic values, coefficients, and joining factors. Second edition. National Bureau of Standards Applied Mathematics Series, No. 59. *U. S. Government Printing Office, Washington, D. C.,* 1967. xlviii + 311 *pp.* (Editors) 35 #7559

Tagung über Formale Sprachen

* Tagung über Formale Sprachen (Oberwolfach, 30.8.-5.9.1970). Herausgegeben von G. Hotz und C.-P. Schnorr. *Gesellschaft für Mathematik und Datenverarbeitung, Bonn,* 1970. iii + 58 *pp.* (Table of contents) 43 #1781

Tagung über funktionalanalytische Methoden der numerischen Mathematik

* Funktionalanalytische Methoden der numerischen Mathematik. Vortragsauszüge der Tagung über funktionalanalytische Methoden der numerischen Mathematik vom 19. bis 25. November 1967 im Mathematischen Forschungsinstitut Oberwolfach (Schwarzwald). Herausgegeben von L. Collatz und H. Unger. ISNM Internationale Schriftenreihe zur Numerischen Mathematik, Vol. 12. *Birkhäuser Verlag, Basel-Stuttgart,* 1969. 143 *pp.* (Editors) 40 #2207

Tagung über Probleme und Methoden der Mathematischen Physik

* Vorträge der 3. Tagung über Probleme und Methoden der Mathematischen Physik. Heft 1, 2. *Technische Hochschule Karl-Marx-Stadt, Karl-Marx-Stadt,* 1966. *Vol. I:* ii + 220 *pp.* *Vol. II:* ii + 239 *pp.* (*loose errata*) (Editors) 36 #6249

* Vierte Tagung über Probleme und Methoden der Mathematischen Physik (Karl-Marx-Stadt, 1968). Wiss. Z. Techn. Hochsch, Karl-Marx-Stadt 11 (1969), Heft 3. *Verlag der Technischen Hochschule Karl-Marx-Stadt, Karl-Marx-Stadt,* 1969, *pp.* 265-410. (Editors) 42 #1631

Teleautomatic systems of queueing
* Телеавтоматические системы массового обслуживания (Материалы семинара по кибернетике. Вып. 23-24). (Russian) [Teleautomatic systems of queueing (Proc. Sem. Cybernetics. No. 23-24)] *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1970. 67 *pp.* (Editors) 43 #5639

Ten books on mathematics
* Suan-ching shih-shu. I, II ts'ê. (Chinese) [Ten books on mathematics. Vols. I, II] Edited by Ch'ien Pao-ts'ung. *Chinese National Publishing Office, Peking,* 1963. *Vol. I: pp.* xvi + *pp.* 1-272; *Vol. II: pp.* 273-603. (A. Kobori) 39 #5292

Les tendances géométriques en algèbre et théorie des nombres
* Les tendances géométriques en algèbre et théorie des nombres Clermont-Ferrand (2-9 avril 1964). Colloques Internationaux du Centre National de la Recherche Scientifique, No. 143. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1966. 259 *pp.* (Editors) 34 #2387

Tests non parametriques
Tests non paramétriques. *Rev. CETHEDEC Cahier No.* 5 (1968), 3-124. (C. B. Bell) 40 #987

The Texas Quarterly
* The Texas Quarterly, Volume 10 (1967), no. 3. The *Annus Mirabilis* of Sir Isaac Newton. Tricentennial Celebration. *University of Texas, Austin, Tex.,* 1967. (J. A. Lohne) 39 #2581

Theodore von Kármán
* Theodore von Kármán, 1881-1963. In memoriam. *Society for Industrial and Applied Mathematics, Philadelphia, Pa.,* 1965. ii + 178 *pp.* (1 *plate*) (Editors) 41 #5140

Theoretical and applied mechanics
* Developments in Theoretical and Applied Mechanics, Vol. 2. Proceedings of the Second Southeastern Conference on Theoretical and Applied Mechanics; sponsored by Georgia Institute of Technology; held at Atlanta, Georgia, March 5-6, 1964. Edited by W. A. Shaw. *Pergamon Press, Oxford-Edinburgh-New York-Paris-Frankfurt,* 1965. xv + 651 *pp.* (Editors) 31 #912
* Третий всесоюзный съезд по теоретической и прикладной механике (Москва, 25 января-1 февраля 1968 года): Аннотации докладов. (Russian) [Third All-Union Congress on Theoretical and Applied Mechanics (Moscow, January 25-February 1, 1968): Abstracts of papers] *Akad. Nauk SSSR, Moscow,* 1968. 336 *pp.* 36 #4857

Theoretical cybernetics
* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1966. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1967. 109 *pp.* (Editors) 38 #1977
* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1967. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1968. 125 *pp. (errata insert)* (Editors) 39 #2559
* Progress in mathematics. Vol. 3: Probability theory, mathematical statistics and theoretical cybernetics. Edited by R. V. Gamkrelidze. Translated from the Russian. *Plenum Press, New York,* 1969. vii + 122 *pp.* (Editors) 39 #1259
* Всесоюзная конференция по проблемам теоретической кибернетики (9-13 июня 1969 г.). Тезисы докладов. (Russian) [All-union conference on the problems of theoretical cybernetics (June 9-13, 1969). Abstracts of papers] *Inst. Mat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1969. 118 *pp.* (Editors) 40 #5369
* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1968. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 111 *pp.* (Editors) 41 #3209
* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1969. (Russian) [Probability theory. Mathematical statistics. Theoretical cybernetics. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 104 *pp. (errata insert)* (Editors) 42 #4346

Theoretical cybernetics and computing methods
* Кибернетика и вычислительная техника на Украине. Библиографический указатель. Часть 1: Теоретическая кибернетика и вычислительные методы. (Russian) [Cybernetics and computer technology in the Ukraine. A bibliography. Part 1: Theoretical cybernetics and computing methods] Compiled by P. V. Pohodzilo, I. N. Kolomoĭskaja and L. P. Berezinec. *Akad. Nauk Ukrain. SSR Inst. Kibernet., Kiev,* 1970. 261 *pp.* (Editors) 43 #1788a

Theoretical physics
* Lectures in theoretical physics. Vol. VI. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1963. *The University of Colorado Press, Boulder, Colo.,* 1964. ix + 516 *pp.* (Editors) 29 #4419
* Lectures in theoretical physics. Vol. VII A. Lorentz group. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1964. Edited by Wesley E. Brittin and Asim O. Barut. *The University of Colorado Press, Boulder, Colo.,* 1965. viii + 386 *pp.* (Editors) 32 #2037
* Letnia Szkoła Fyziki Teoretycznej (Dolina Chochołowska, 1963). (Polish) [Summer School on Theoretical Physics held at Dolina Chochołowska, 1963] *Zeszyty Nauk. Uniw. Jagiello.* 104 *Prace Fiz. zeszyt* 3 (1965), 1-156. (1 *plate*) (Editors) 34 #7313
* Lectures in theoretical physics. Vol. VIII B: Fundamental particles and high energy physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. viii + 428 *pp.* (Editors) 34 #5403
* Lectures in theoretical physics. Vol. VIII A: Statistical physics and solid state physics. Lectures delivered at the Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1965. Edited by Wesley E. Brittin. *The University of Colorado Press, Boulder, Colo.,* 1966. vi + 355 *pp.* (Editors) 34 #5457
* Graph theory and theoretical physics. Edited by Frank Harary. *Academic Press, London-New York,* 1967. xv + 358 *pp.* (Editors) 37 #6208
* Lectures in theoretical physics. Vol. IXA: Mathematical methods of theoretical physics. Lectures delivered at the Ninth Summer Institute for Theoretical Physics, University of Colorado, Boulder, Colo., 1966. Edited by Wesley E. Brittin, Asim O. Barut and Marcel Guenin. *Gordon and Breach Science Publishers, Inc., New York-London-Paris,* 1967. ix + 400 *pp.* (Editors) 38 #5433a
* Symposia on theoretical physics, Vol. 4. Lectures presented at the Third Anniversary Symposium of the Institute of Mathematical Sciences, Madras, 1965. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1967. xiii + 161 *pp.* (Table of contents) 40 #3799
* Symposia on theoretical physics, Vol. 5. Lectures presented at the Summer School of the Institute of Mathematical Sciences, Madras, 1965. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1967. xi + 218 *pp.* (Table of contents) 40 #3800

Theoretical physics and elementary particle physics
* Теоретическая физика и физика элементарных частиц. Слабое взаимодействие элементарных частиц. (Russian) [Theoretical physics and elementary particle physics. Weak interaction of elementary particles] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 194 *pp. (errata insert)* (Editors) 34 #2285

Theoretical physics and mathematics
* Symposia on theoretical physics and mathematics, Vol. 8. Lectures presented at the Fifth Anniversary Symposium of the Institute of Mathematical Sciences, Madras, 1967. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1968. xii + 200 *pp.* (Editors) 38 #3102
* Symposia on theoretical physics and mathematics, Vol. 7. Lectures presented at the Summer School of the Institute of Mathematical Sciences, Madras, 1966. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1968. xii + 193 *pp.* (Table of contents) 40 #3801
* Symposia on theoretical physics and mathematics, Vol. 9. Lectures presented at the 1968 Sixth Anniversary Symposium of the Institute of Mathematical Sciences, Madras, India. Edited by Alladi Ramakrishnan. *Plenum Press, New York,* 1969. xiii + 277 *pp.* (Editors) 40 #1227
* Symposia on theoretical physics and mathematics, Vol. 10. Lectures presented at the 1969 Seventh Anniversary Symposium of the Institute of Mathematical Sciences, Madras, India. Edited by Alladi Ramakrishnan. *Plenum Press, New York-London,* 1970. xiii + 157 *pp.* (Editors) 41 #3208

Theorie der Parallellinien von Euklid bis auf Gauss
* Die Theorie der Parallelinien von Euklid bis auf Gauss. Eine Urkundensammlung zur Vorgeschichte der nichteuklidischen Geometrie. Herausgegeben von Paul Stäckel und Friedrich Engel. Reprint. Bibliotheca Mathematica Teubneriana, Band 41. *Johnson Reprint Corp., New York-London,* 1968. x + 325 *pp.* (4 *plates*) (Editors) 41 #25

Théorie du potentiel
* La théorie du potentiel. Orsay, 22-26 Juin 1964. Colloques Internationaux du Centre National de la Recherche Scientifique, No. 146. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1965. x + 312 *pp.* (Editors) 32 #224

Théorie relativistes de la gravitation
* Les théories relativistes de la gravitation (Royaumont, 21-27 juin 1959). Colloques Internationaux du Centre National de la Recherche Scientifique, XCI. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. 475 *pp.* (F. A. E. Pirani) 29 #1992

Theory and applications of monotone operators

* Theory and applications of monotone operators. Edited by Aldo Ghizzetti. Proceeding of a NATO Advanced Study Institute held in Venice, Italy, June 17-30, 1968. *Edizioni "Oderisi", Gubbio,* 1969. vi + 343 *pp.* (Editors) 41 #5987

Theory and applications of spline functions

* Theory and applications of spline functions. Proceedings of an Advanced Seminar conducted by the Mathematics Research Center, United States Army, at the University of Wisconsin, Madison, Wis., October 7-9, 1968. Edited by T. N. E. Greville. Publication No. 22 of the Mathematics Research Center, United States Army, The University of Wisconsin. *Academic Press, New York-London,* 1969. xi + 212 *pp.* (Editors) 38 #3663

Theory of automatic control

* Теория автоматического управления (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Theory of automatic control (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 104 *pp.* (Editors) 40 #1150

Theory of binary relations

* Некоторые приложения теории бинарных отношений. (Russian) [Certain applications of the theory of binary relations] *Izdat. Saratov. Univ., Saratov,* 1966. 16 *pp.* (Editors) 33 #3969

Theory of continuous automatic systems

* Теория непрерывных автоматических систем. (Russian) [Theory of continuous automatic systems] Proceedings of the Second International Congress of the International Federation of Automatic Control, Basle, Switzerland, Aug. 28-Sept. 4, 1963. Chief editor, V. A. Trapeznikov. *Izdat. "Nauka", Moscow,* 1965. 307 *pp.* (Editors) 32 #7268a

Theory of control

* Mathematical theory of control. Proceedings of a Conference held at the University of Southern California, Los Angeles, January 30-February 1, 1967. Edited by A. V. Balakrishnan and Lucien W. Neustadt. *Academic Press, New York-London,* 1967. xv + 459 *pp.* (Editors) 40 #5279

Theory of differential equations and the theory of functions

* Исследования по теории дифференциальных уравнений и теории функций. (Russian) [Studies in the theory of differential equations and the theory of functions] *Izdat. Akad. Nauk Azerbaĭdžan. SSR, Baku,* 1965. 166 *pp.* (Editors) 33 #3

Theory of distributions

* Theory of Distributions. Proceedings of an International Summer Institute held in Lisbon, September, 1964. *Instituto Gulbenkian de Ciência Centro de Cálculo Científico, Lisbon,* 1964. xxviii + 390 *pp.* (Editors) 35 #5930

Theory of electrical circuits

* Математическое моделирование и теория электрических цепей. Вып. 3. (Russian) [Mathematical simulation and the theory of electrical circuits] Works of the Seminar on Methods in Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1965. 319 *pp.* (Editors) 32 #7331

* Методы математического моделирования и теория электрических цепей (Труды семинара, Киев, 1968 г.). Вып. 3. (Russian) [Methods of mathematical simulation and the theory of electrical circuits (Proceedings of a Seminar, Kiev, 1968). No. 3] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1969. 92 *pp.* (Editors) 39 #6663

Theory of fields

* Некоторые вопросы теории полей. (Russian) [Certain problems in the theory of fields] Ministry of Higher and Intermediate Education of the RSFSR. N. G. Černyševskiĭ Saratov State University. *Izdat. Saratov. Univ., Saratov,* 1964. 79 *pp.* (Editors) 34 #168

* Математическое моделирование и теория электрических цепей. Вып. 7. (Russian) [Mathematical simulation and the theory of electrical circuits. No. 7] Proceedings of the Seminar on Methods of Mathematical Simulation and the Theory of Electrical Circuits. Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Naukova Dumka, Kiev,* 1970. 316 *pp.* (Editors) 42 #4350

Theory of finite groups: A Symposium

* Theory of finite groups: A symposium. Edited by Richard Brauer and Chih-han Sah. *W. A. Benjamin, Inc., New York-Amsterdam,* 1969. xiii + 263 *pp. (erratum, p. xiii)* (Editors) 39 #1538

Theory of functions

* Функциональный анализ и теория функций, Сборник I. (Russian) [Functional analysis and the theory of functions, No. I] *Izdat. Kazan. Univ., Kazan,* 1963. 139 *pp.* (Editors) 34 #6030

(See also Andreian Cazacu, Cabiria; Constantinescu, C.; Jurchescu, M., 34 #4)

Theory of functions in continuum mechanics

* Приложения теории функций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963) Том I. Механика твердого тела. (Russian) [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963). Vol. I. Mechanics of solids] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 452 *pp.* (Editors) 32 #4889a

* Приложения теории фунрций в механике сплошной среды (Труды Международного Симпозиума, Тбилиси, 17-23 Сентября 1963). Том II. Механика жидкости и газа, математические методы. (Russian) [Applications of the theory of functions in continuum mechanics (Proceedings of the International Symposium, Tbilisi, September 17-23, 1963). Vol. II. Fluid and gas mechanics, mathematical methods] Edited by N. I. Mushelišvili, L. I. Sedov and G. K. Mihaĭlov. *Izdat. "Nauka", Moscow,* 1965. 478 *pp.* (Editors) 32 #4889b

Theory of functions and differential equations

* Теория функций и дифференциальные уравнения. (Russian) [Theory of functions and differential equations] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Nauka", Uzbek. SSR, Tashkent,* 1965. 219 *pp.* (Editors) 33 #1194

* Теория функций и дифференциальные уравнения. (Russian) [Theory of functions and differential equations] Edited by Z. I. Kozlova. Volgograd Pedagogical Institute. *Izdat. Saratov. Univ., Saratov,* 1966. 60 *pp.* (Editors) 35 #1430

Theory of games. Matrix games

* Теория игр. Матричные игры. (Russian) [Theory of games. Matrix games] Edited by N. N. Vorob'ev. *Gosudarstv. Izdat. Fiz.-Mat. Lit., Moscow,* 1961. 220 *pp.* (Editors) 31 #4636

Theory of games: Positional games

* Теория игр: Позиционные игры. (Russian) [Theory of games: Positional games] Edited by N. N. Vorob'ev and I. N. Vrublevskaja. *Izdat. "Nauka", Moscow,* 1967. 523 *pp.* (Editors) 36 #4906

Theory of graphs

* Theory of Graphs. Proceedings of the Colloquium held at Tihany, Hungary, September, 1966. Edited by P. Erdős and G. Katona. *Academic Press, New York-London; Akadémiai Kiadó, Budapest,* 1968. 370 *pp.* (Editors) 38 #1016

Theory of graphs and its applications

* Theory of graphs and its applications. Proceedings of the Symposium held in Smolenice in June 1963. Edited by Miroslav Fiedler. *Publishing House of the Czechoslovak Academy of Sciences, Prague,* 1964. 234 *pp.* (Editors) 30 #2479

Theory of Graphs: International Symposium

* Theory of graphs: International Symposium. Held at the International Computation Center in Rome, July, 1966. Scientific editor, P. Rosenstiehl. *Gordon & Breach, New York; Dunod, Paris,* 1967. xviii + 416 *pp.* (Editors) 36 #1350

Theory of group representations and Fourier analysis

* Theory of group representations and Fourier analysis. Centro Internazionale Matematico Estivo (C.I.M.E.). II Ciclo, Montecatini T., 25 giugno-4 luglio 1970. Coordinatore: F. Gherardelli. *Edizioni Cremonese, Rome,* 1971. ii + 330 *pp.* (Editors) 43 #7543

Theory of groups

* Коуровская тетрадь. Нерешенные задачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups] Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1965. 18 *pp.* (F. L. Hardy) 34 #4339

* Proceedings of the International Conference on the Theory of Groups. Held at the Australian National University, Canberra, August 10-20, 1965. Edited by L. G. Kovács and B. H. Neumann. *Gordon and Breach Science Publishers, New York-London-Paris,* 1967. xvii + 397 *pp.* (Editors) 35 #6732

* II всесоюзный симпозиум по теории групп. (Russian) [Second All-Union Symposium on the Theory of Groups] Abstracts of reports and papers presented at a Symposium held in Batumi, 1966. *Izdat. "Mecniereba", Tbilisi,* 1967. 53 *pp.* (Editors) 42 #6084

Theory of invariance in automatic control systems

* Теория инвариантности в системах автоматического управления. (Russian) [Theory of invariance in automatic control systems] Proceedings of the Second All-Union Conference held in Kiev, 29 May 1962-1 June 1962. *Izdat. "Nauka", Moscow,* 1964. 504 *pp.* (Editors) 31 #3255

Theory of laminar flows

* Theory of laminar flows. Edited by F. K. Moore. High Speed Aerodynamics and Jet Propulsion, Vol. IV. *Princeton University Press, Princeton, N. J.,* 1964. xv + 869 *pp.* (Editors) 30 #3637

Theory of mathematical machines

* The theory of mathematical machines. Edited by Yu. Ya. Bazilevskii. Translated from the Russian by C. A. R. Hoare; translation edited by J. M. Jackson. A Pergamon Press Book. *The Macmillan Co., New York,* 1963. xii + 264 *pp.* (R. R. Korfhage) 29 #1756

Theory of mechanisms

* Колебания. Гироскопия. Теориа механисмов. Механика жидкости и газа. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. II. (Russian) [Vibrations. Gyroscopics. Theory of mechanisms. Mechanics of fluids and gases. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur′e, G. K. Mihaĭlov and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 306 *pp. (errata insert)* (Editors) 34 #2b

Theory and methods of nuclear reactor calculations

* Theory and methods of nuclear reactor calculations. Authorized translation from the Russian. Edited by G. I. Marchuk. *Consultants Bureau, New York,* 1964. viii + 199 *pp.* (R. R. Coveyou) 30 #4547

Theory of models

* The theory of models. Proceedings of the 1963 International Symposium at Berkeley. Edited by J. W. Addison, Leon Henkin, Alfred Tarski. *North-Holland Publishing Co., Amsterdam,* 1965. xv + 494 *pp.* (1 *plate*) (Editors) 33 #3878

Theory of numbers

* Proceedings of Symposia in Pure Mathematics. Vol. VIII: Theory of numbers. *American Mathematical Society, Providence, R. I.,* 1965. vii + 214 *pp.* (1 *plate*) (Editors) 30 #3858

Theory of optimal solutions

* Теория оптимальных решений (Семинар, Киев, 1967 г.). Вып. 2. (Russian) [Theory of optimal solutions (Seminar, Kiev, 1967). No. 2] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 80 *pp.* (Editors) 39 #6607

* Теория оптимальных решений (Семинар, Киев, 1967 г.). Вып. 3. (Russian) [Theory of optimal solutions (Seminar, Kiev, 1967). No. 3] Institute of Cybernetics of the Academy of Science of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1967. 90 *pp.* (Editors) 39 #6608

* Теория оптимальных решений (Труды семинара, Киев, 1968 г.). В,п. 2. (Russian) [Theory of optimal solutions (Proceedings of a Seminar, Kiev, 1968). No. 2] Academy of Sciences of the Ukrainian SSR. Institute of Cybernetics. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 106 *pp.* (Editors) 39 #5203

* Теория оптимальных решений (Труды семинара, Киев, 1968 г.). Вып. 1. (Russian) [Theory of optimal solutions (Proceedings of a Seminar, Kiev, 1968). No. 1] Institute of Cybernetics of the Academy of Sciences of the Ukrainian SSR. *Akad. Nauk Ukrain. SSR, Kiev,* 1968. 91 *pp.* (Editors) 39 #7925

Theory of optimum aerodynamic shapes

* Theory of optimum aerodynamic shapes. Extremal problems in the aerodynamics of supersonic, hypersonic, and free-molecular flows. Edited by Angelo Miele. Applied Mathematics and Mechanics, Vol. 9. *Academic Press, New York-London,* 1965. xix + 455 *pp.* (W. R. Sears) 32 #6818

Theory of ordered sets

* Summer Session on the Theory of Ordered Sets and General Algebra (Held at Cikháj, 1969). *Faculty of Science, University of J. E. Purkyně, Brno,* 1969. 126 *pp.* (Editors) 42 #9

Theory of probability. Mathematical statistics

* Теория вероятностей и математическая статиска. Вып. I. (Russian) [Theory of probability and mathematical statistics. No. I] Academy of Sciences of the Uzbek SSR. V. I. Romanovskiĭ Institute of Mathematics. *Izdat. "Nauka" Uzbek. SSR, Tashkent,* 1964. 134 *pp.* (Editors) 33 #1195

* Теория вероятностей. Математическая статистика (1963). (Russian) [Theory of probability. Mathematical statistics (1963)] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 126 *pp.* (Editors) 32 #3083

Theory of probability. Mathematical statistics. Theoretical cybernetics

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика 1964. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1964] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1966. 100 *pp.* (Editors) 36 #6

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1966. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1967. 109 *pp.* (Editors) 38 #1977

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1967. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1968. 125 *pp. (errata insert)* (Editors) 39 #2559

* Теория вероятностей. Математическая статистика. Теоретическая кибернетика. 1968. (Russian) [Theory of probability. Mathematical statistics. Theoretical cybernetics. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 111 *pp.* (Editors) 41 #3209

Theory of relativity

* Гравитация и теория относительности. Вып. 4-5. (Russian) [Gravitation and the theory of relativity. No. 4-5] *Izdat. Kazan. Univ., Kazan,* 1968. 246 *pp.* (Editors) 43 #8338

Theory of semigroups and its applications

* Теория полугрупп и ее приложения. Вып. 1. (Russian) [Theory of semigroups and its applications. Vol. I] V. V. Vagner editor. *Izdat. Saratov. Univ., Saratov,* 1965. 352 *pp.* (Editors) 33 #215

Theta-Funktionen und spezielle

(See Tölke, Friedrich, 35 #3089)

De Thiende von Simon Stevin

* *De Thiende* von Simon Stevin. Das erste Lehrbuch der Dezimalbruchrechnung nach der holländischen und der französischen Ausgabe von 1585. Übersetzt und erläutert von Helmuth Gericke und Kurt Vogel. Ostwalds Klassiker der exakten Wissenschaften. N. F., Band 1. *Akademische Verlagsgesellschaft, Frankfurt am Main,* 1965. iv + 58 *pp.* (1 *plate*) (C. J. Scriba) 33 #5424

Tien Tzu Hsueh Pao

* Electronics in Mainland China. 1965, Part III. Translated from the Chinese by Scripta Electronica. *Institute of Electrical and Electronics Engineers, New York,* 1969. (Editors) 43 #4

Time series and stochastic processes

* Proceedings of the Twelfth Biennial Seminar of the Canadian Mathematical Congress on Time Series and Stochastic Processes; Convexity and Combinatorics. Edited by Ronald Pyke. *Canadian Mathematical Congress, Montreal, Que.,* 1970. xiv + 279 *pp.* (1 *plate*) (Editors) 42 #7458

Tiraspol Symposium on General Topology and its Applications

* II Тираспольский симпозиум по общей топологии и ее приложениям. (Russian) [Second Tiraspol Symposium on General Topology and its Applications] *Akad. Nauk Moldav. SSR, Kišinev,* 1969. 103 *pp.* (Editors) 40 #1955

Topics in Abelian Groups (Proc. Sympos., New Mexico State Univ.)

* Topics in Abelian groups. Proceedings of the Symposium on Abelian Groups, held at New Mexico State University, June 4-8, 1962. Edited by J. M. Irwin and E. A. Walker. *Scott, Foresman and Co., Chicago, Ill.,* 1963. 368 pp. (Editors) 29 #5888

Topics in applied mechanics

* Topics in applied mechanics. Memorial volume to the late Professor Edwin Schwerin. Edited by David Abir, Franz Ollendorff, and Markus Reiner. *Elsevier Publishing Company, Amsterdam-London-New York,* 1965. xi + 318 *pp.* (Editors) 31 #1792

* Topics in elementary particle theory. Proceedings of the International Seminar on Elementary Particle Theory (Varna, Bulgaria, May 6-19, 1968). *Izdat. Otdel Ob"edinen. Inst. Jader. Issled., Dubna,* 1968. (Editors) 40 #3802

Topics in mathematical system theory

(See Kalman, R. E.; Falb, P. L.; Arbib, M. A., 40 #8465)

Topics in modern mathematics

* Topics in modern mathematics. Edited by Ralph G. Stanton and Kenneth D. Fryer. *Prentice-Hall, Inc., Englewood Cliffs, N. J.,* 1964. x + 187 *pp.* (Editors) 31 #2105

Topics in nonlinear physics

* Topics in nonlinear physics. Proceedings of the Physics Session, International School of Nonlinear Mathematics and Physics. A NATO Advanced Study Institute, Max-Planck-Institute for Physics and Astrophysics (Munich, 1966). Edited by Norman J. Zabusky. *Springer-Verlag New York Inc., New York,* 1968. xxx + 724 *pp.* (Editors) 39 #1251

Topics in optimization

* Topics in optimization. Edited by George Leitmann. Mathematics in Science and Engineering, Vol. 31. *Academic Press, New York-London,* 1967. xv + 469 *pp.* (Editors) 34 #8828

Topics in several complex variables

* Topics in several complex variables. Lectures given at a Summer School in Otaniemi, June, 1967. Monographie No. 17 de l'Enseignement Mathématique. *Institut de Mathématiques de l'Université de Genève; Imprimerie Kundig, Geneva,* 1968. iv + 119 (Editors) 39 #3021

Topologia differenziale

* Topologia differenziale. 1° Ciclo, Urbino, 2-12 luglio 1962. Centro Internazionale Matematico Estivo (C. I. M. E.). *Edizioni Cremonese, Rome,* 1963. 129 pp. *(not consecutively numbered).* (Editors) 29 #622

Topological dynamics

(See Gottschalk, Walter H., 36 #7126 and 41 #2655)

* Topological dynamics. An international symposium. Edited by Joseph Auslander and Walter H. Gottschalk. *W. A. Benjamin, Inc., New York-Amsterdam,* 1968. xv + 522 *pp.* (Editors) 38 #2762

Topological papers of Eduard Čech

* Topological papers of Eduard Čech. Scientific editor: Josef Novák. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague,* 1968. 514 *pp.* (1 *plate*) (Editors) 40 #1956

Topological structures

* Contributions to extension theory of topological structures. Proceedings of the Symposium held in Berlin, August 14-19, 1967. Edited by J. Flachsmeyer, H. Poppe and F. Terpe. *Veb Deutscher Verlag der Wissenschaften, Berlin,* 1969. 279 *pp. (loose errata)* (Editors) 39 #6268

Topologie différentielle

* Colloque de topologie différentielle. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 55. *Université de Montpellier, Montpellier,* 1969. i + 90 *pp.* (Editors) 40 #2090

Topologie et Géométrie Différentielle

* Topologie et Gémétrie Différentielle. Cahiers du Séminaire dirigé par Charles Ehresmann, Vol. V, 1963. *Institut Henri Poincaré, Paris,* 1963. vii + 120 *pp. (not consecutively paged)* (Editors) 33 #3861

* Topologie et Gémétrie Différentielle. Çahiers du Séminaire dirigé par Charles Ehresmann. Vol. VI, 1964. *Institut Henri Poincaré, Paris,* 1964. iii + 196 *pp. (not consecutively numbered)* (Editors) 31 #3

* Topologie et Géométrie Différentielle. Cahiers du Séminaire dirigé par Charles Ehresmann, Vol. VII, 1965. *Institut Henri Poincaré, Paris,* 1965. ii + 179 *pp. (not consecutively paged)* (Editors) 33 #3862

* Cahiers de topologie et géométrie différentielle, Vol. VIII. Édités par Charles Ehresmann. *Centre National de la Recherche Scientifique, Paris,* 1966. ii + 230 *pp. (not consecutively paged)* (Editors) 34 #2398

Topology

* Differential and combinatorial topology. A Symposium in Honor of Marston Morse. Stewart S. Cairns, general editor. *Princeton University Press, Princeton, N. J.,* 1965. vii + 265 *pp.* (1 *plate*) (Editors) 31 #1682

* Алгебра. Топология. Геометрия. 1965. (Russian) [Algebra. Topology. Geometry. 1965] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Tehn. Informacii, Moscow,* 1967. 468 *pp. (errata insert)* (Editors) 35 #6499

* Труды IV всесоюзной топологической конференции. (Russian) [Proceedings of the Fourth All-Union Topological Conference] Conference held in Tashkent, 1963. *Izdat. "Fan" Uzbek. SSR, Tashkent,* 1967. 207 *pp.* (Editors) 41 #986

* Studies in modern topology. Edited by P. J. Hilton. MAA Studies in Mathematics, Vol. 5. *The Mathematical Association of America, Buffalo, N. Y. (distributed by Prentice-Hall, Inc., Englewood Cliffs, N. J.),* 1968. vii + 212 *pp.* (Editors) 36 #5932

* Алгебра. Топология. Геометрия. 1966. (Russian) [Algebra. Topology. Geometry. 1966] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1968. 268 *pp.* (Editors) 38 #1970

* II Тираспольский симпозиум по общей топологии и ее приложениям. (Russian) [Second Tiraspol Symposium on General Topology and its Applications] *Akad. Nauk Moldav. SSR, Kišinev,* 1969. 103 *pp.* (Editors) 40 #1955

* American Mathematical Society Translations. Series 2, Vol. 84: Twelve papers on algebra, algebraic geometry and topology. *American Mathematical Society, Providence, R. I.,* 1969. iv + 275 *pp.* (Editors) 40 #5370

* Алгебра. Топология. Геометрия. 1967. (Russian) [Algebra. Topology. Geometry. 1967] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. Tehn. Informacii, Moscow,* 1969. 228 *pp.* (Editors) 41 #1460

* Алгебра. Топология. Геометрия. 1968. (Russian) [Algebra. Topology. Geometry. 1968] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1970. 224 *pp. (errata insert)* (Editors) 41 #3201

* Mathematics Colloquium and 1969 Symposium on Topology, University of Cape Town, Vol. V: Abstracts of talks delivered during 1969. *Department of Mathematics, University of Cape Town, Cape Town,* 1970. iv + 77 *pp.* (Table of contents) 43 #3062

* Алгебра. Топология. Геометрия. 1969. (Russian) [Algebra. Topology. Geometry. 1969] Itogi Nauki. *Akad. Nauk SSSR Vsesojuz. Inst. Naučn. i Tehn. Informacii, Moscow,* 1971. 168 *pp. (errata insert)* (Editors) 43 #1783

Topology, categories, Riemann surfaces

(See Andreian-Cazacu, Cabiria; Deleanu, Aristide; Jurchescu, Martin, 35 #6498)

Topology, Colloquium on

* Colloque de Topologie tenu à Bruxelles du 7 au 10 Septembre 1964. Centre Belge de Recherches Mathématiques. *Librairie Universitaire, Louvain; Librairie Gauthier-Villars, Paris,* 1966. 235 *pp.* (Editors) 35 #6138

Topology conference

* Topology conference (Arizona State University, Tempe, Ariz., 1967). Edited by E. E. Grace. *Arizona State Univ., Tempe, Ariz.,* 1968. vii + 339 *pp.* (Editors) 38 #5152

Topology and geometry

* Progress in mathematics. Vol. 6: Topology and geometry. Edited by R. V. Gamkrelidze. Translated from the Russian by N. H. Choksy. *Plenum Press, New York-London,* 1970. x + 269 *pp.* (Editors) 42 #2903a

Topology and its applications

* Proceedings of the International Symposium on Topology and its Applications, Herceg-Novi, 25-31. 8. 1968, Yugoslavia. (English and Russian) Edited by Duro R. Kurepa. *Savez Društava Matematičara, Fizičara I Astronoma, Belgrade,* 1969. 356 *pp.* (Editors) 42 #2416

Topology of manifolds

* Conference on the topology of manifolds. Edited by John G. Hocking. The Prindle, Weber & Schmidt Complementary Series in Mathematics, Vol. 13. *Prindle, Weber & Schmidt, Inc., Boston, Mass.-London-Sydney,* 1968. viii + 161 *pp.* (Editors) 38 #1685

* Topology of manifolds. Proceedings of the University of Georgia Topology of Manifolds Institute, 1969. Edited by J. C. Cantrell and C. H. Edwards, Jr. *Markham Publishing Co., Chicago, Ill.,* 1970. xiv + 514 *pp.* (Editors) 42 #3793

Topology, Problems from the Seattle Conference

Problems in differential and algebraic topology. Seattle Conference, 1963. Edited by R. Lashof. *Ann. of Math.* (2) 81 (1965), 565-591. (A. Haefliger) 32 #443

Topology Seminar

* Topology seminar, Wisconsin, 1965. Edited by R. H. Bing and R. J. Bean. Annals of Mathematics Studies, No. 60. *Princeton University Press, Princeton, N. J.,* 1966. ix + 246 *pp.* (Editors) 34 #1974; erratum, 35, p. 1577

Topology and topological algebra

* Translations, Ser. 1, Vol. 8: Topology and topological algebra. *American Mathematical Society, Providence, R. I.,* 1962. ii + 462 *pp.* (Editors) 38 #1983

Transactions of the All-Union Conference. See All-Union Conference.

Transactions of the Conference of Army Mathematicians

* Transactions of the Eighth Conference of Army Mathematicians. Conducted at Mathematics Research Center, Army, University of Wisconsin, 6-7 June 1962. U. S. Army Research Office (Durham) Report No. 63-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1963. xi + 450 *pp.* (Editors) 39 #2563

* Transactions of the Ninth Conference of Army Mathematicians. Conducted at Watervliet Arsenal, Watervliet, N. Y., 5-6 June 1963. U. S. Army Research Office (Durham) Report No. 64-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1964. xv + 400 *pp.* (Editors) 39 #2564

* Transactions of the Tenth Conference of Army Mathematicians. Conducted at U. S. Army Materials Research Agency, Watertown Arsenal, Watertown, Mass., 10-11 June 1964. U. S. Army Research Office (Durham). Report No. 65-2. *U. S. Army Research Office (Durham) Durham, N. C.,* 1965. xii + 486 *pp.* (Editors) 39 #2565

* Transactions of the Eleventh Conference of Army Mathematicians. Conducted at U. S. Army Frankford Arsenal, Philadelphia, Pa., 9-10 June 1965. U. S. Army Research Office (Durham) Report No. 66-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1966. x + 394 *pp.* (Editors) 39 #2566

* Transactions of the Twelfth Conference of Army Mathematicians. Sponsored by the Army Mathematics Steering Committee. Conducted at U. S. Army Cold Regions Research and Engineering Laboratory, Hanover, N. H., 22-23 June 1966. U. S. Army Research Office (Durham) Report No. 67-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1967. xv + 512 *pp.* (Editors) 39 #2567

* Transactions of the Thirteenth Conference of Army Mathematicians. Sponsored by the Army Mathematics Steering Committee. Conducted at U. S. Army Electronics Command, Ft. Monmouth, N. J., 7-8 June 1967. U. S. Army Research Office (Durham) Report No. 68-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1968. xiii + 428 *pp.* (Editors) 39 #2568

* Transactions of the Fourteenth Conference of Army Mathematicians. Sponsored by the Army Mathematics Steering Committee. Conducted at Rock Island Arsenal, Rock Island, Ill., 12-13 June 1968. U. S. Army Research Office (Durham), Report No. 69-1. *U. S. Army Research Office (Durham), Durham, N. C.,* 1969. xii + 330 *pp.* (Table of contents) 39 #6704

* Transactions of the Fifteenth Conference of Army Mathematicians. Sponsored by the Army Mathematics Steering Committee. Conducted at U. S. Army Aviation Systems Command, St. Louis, Mo., 11-12 June 1969. *U. S. Army Research Office (Durham), Durham, N. C.,* 1970. xiii + 628 *pp.* (Table of contents) 40 #4039

* Transactions of the Sixteenth Conference of Army Mathematicians. Sponsored by the Army Mathematics Steering Committee. Host: U. S. Army Strategy and Tactics Analysis Group, Bethesda, Maryland, 28-29 May, 1970. U. S. Army Research Office (Durham) Report No. 71-2. *U. S. Army Research Office (Durham), Durham, N. C.*, 1971. xii + 705 *pp.* (Table of contents) 43 #3065

Transactions of the Conference of Arsenal Mathematicians

* Transactions of the Fourth Conference of Arsenal Mathematicians. Held at Picatinny Arsenal, Dover, N. J., 5-6 June 1958. Office of Ordnance Research, Report No. 59-1. *Office of Ordnance Research, Ordnance Corps, U. S. Army, Durham, N. C.*, 1959. vi + 180 *pp.* + v. (Editors) 39 #1261

* Transactions of the Fifth Conference of Arsenal Mathematicians. Held at Rock Island Arsenal, Rock Island, Ill., 3-4 June 1959. Office of Ordnance Research, Report No. 60-1. *Office of Ordnance Research, Ordnance Corps, U. S. Army, Durham, N. C.*, 1960. vi + 156 *pp.* (Editors) 39 #1262

* Transactions of the Sixth Conference of Arsenal Mathematicians. Held at the U. S. Army Research Office (Durham), 1-2 June 1960. U. S. Army Research Office (Durham) Report No. 61-1. *U. S. Army Research Office (Durham), Durham, N. C.*, 1961. viii + 330 *pp.* (Editors) 39 #2561

* Transactions of the Seventh Conference of Arsenal Mathematicians. Held at the Mathematics Research Center, U. S. Army, University of Wisconsin, 7-8 June 1961. U. S. Army Research Office (Durham) Report No. 62-1. *U. S. Army Research Office (Durham), Durham, N. C.*, 1962. ix + 362 *pp.* (Editors) 39 #2562

Transactions of the Conference on Information Theory, Statistical Decision Functions, Random Processes

* Transactions of the Fourth Prague Conference on Information Theory, Statistical Decision Functions, Random Processes. Held at Prague, August 31-September 11, 1965. *Academia [Publishing House of the Czechoslovak Academy of Sciences], Prague*, 1967. 725 *pp.* (Editors) 35 #4066

Transactions of the Moscow Mathematical Society

* Transactions of the Moscow Mathematical Society for the year 1963 (Vol. 12). 1963 volume of the translation prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1965. iv + 524 *pp.* (Editors) 30 #3821

* Transactions of the Moscow Mathematical Society for the year 1965 (Vol. 13). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1967. iii + 384 *pp.* (Editors) 36 #1262; erratum, 40, p. 1704

* Transactions of the Moscow Mathematical Society for the year 1965 (Vol. 14). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1967. iii + 368 *pp.* (Editors) 36 #1263; erratum, 40, p. 1704

* Transactions of the Moscow Mathematical Society for the year 1966 (Vol. 15). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1967. iv + 508 *pp.* (Editors) 36 #6248

* Transactions of the Moscow Mathematical Society for the year 1967 (Vol. 16). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1968. iv + 373 *pp.* (Editors) 39 #5

* Transactions of the Moscow Mathematical Society for the year 1967 (Vol. 17). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1969. iv + 386 *pp.* (Editors) 39 #1260

* Transactions of the Moscow Mathematical Society for the year 1968 (Vol. 18). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1969. iv + 291 *pp.* (Editors) 40 #2486

* Transactions of the Moscow Mathematical Society for the year 1968 (Vol. 19). Translation from the Russian prepared jointly by the American Mathematical Society and the London Mathematical Society. *American Mathematical Society, Providence, R. I.*, 1969. iii + 331 *pp.* (Editors) 40 #2487

Trans. Prague Conf. Information Theory. See Conference on Information Theory.

Transcaucasian Conference of Historians of Science

* Тезисы докладов третьей закавказской конференции историков наук, посвященной 100-летию со дня рождения В. И. Ленина (20-23 нояцря 1969 г.) (Russian) [Abstracts of papers at the Third Transcaucasian Conference of Historians of Science, dedicated to the 100th Birthday Anniversary of V. I. Lenin (November 20-23, 1969)] *Akad. Nauk Gruzin. SSR, Tbilisi*, 1969. 315 *pp. (errata insert)* (Editors) 41 #5

Transformation groups

* Proceedings of the Conference on Transformation Groups (New Orleans, 1967). Edited by Paul S. Mostert. *Springer-Verlag New York Inc., New York*, 1968. xiii + 457 *pp.* (Editors) 39 #4875

Translations

* Translations, Ser. 1, Vol. 1: Algebra. *American Mathematical Society, Providence, R. I.*, 1962. iii + 480 *pp.* (Editors) 38 #1978

* Translations, Ser. 1, Vol. 3: Series and approximation. *American Mathematical Society, Providence, R. I.*, 1962. iii + 398 *pp.* (Editors) 38 #1979

* Translations, Ser. 1, Vol. 4: Differential equations. *American Mathematical Society, Providence, R. I.*, 1962. iii + 473 *pp.* (Editors) 38 #1980

* Translations, Ser. 1, Vol. 5: Stability and dynamic systems. *American Mathematical Society, Providence, R. I.*, 1962. iii + 517 *pp.* (Editors) 38 #1981

* Translations, Ser. 1, Vol. 7: Algebraic topology. *American Mathematical Society, Providence, R. I.*, 1962. ii + 557 *pp.* (Editors) 38 #1982

* Translations, Ser. 1, Vol. 8: Topology and topological algebra. *American Mathematical Society, Providence, R. I.*, 1962. ii + 462 *pp.* (Editors) 38 #1983

* Translations, Ser. 1, Vol. 9: Lie groups. *American Mathematical Society, Providence, R. I.*, 1962. iii + 541 *pp.* (Editors) 38 #1984

* Translations, Ser. 1, Vol. 10: Functional analysis and measure theory. *American Mathematical Society, Providence, R. I.*, 1962. iii + 548 *pp.* (Editors) 38 #1985

* Translations, Ser. 1, Vol. 2: Number theory and analysis. *American Mathematical Society, Providence, R. I.*, 1962. iii + 539 *pp.* (Editors) 38 #4250

* Translations, Ser. 1, Vol. 6: Differential geometry and calculus of variations. *American Mathematical Society, Providence, R. I.*, 1962. ii + 511 *pp.* (Editors) 38 #4251

* Translations, Ser. 1, Vol. II: Probability and physical problems. *American Mathematical Society, Providence, R. I.*, 1962. ii + 397 *pp.* (Editors) 38 #4252

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 1] *Izdat. "Mir", Moscow*, 1968. 160 *pp.* (Editors) 40 #1234

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 2] *Izdat. "Mir", Moscow*, 1968. 143 *pp.* (Editors) 40 #2477

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign aritcles. Vol. 12, No. 3] *Izdat. "Mir", Moscow*, 1968. 184 *pp.* (Editors) 40 #2478

* Математика: периодический сборник переводов иностранных статей. Том 12, Вып. 4. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 4] *Izdat. "Mir", Moscow*, 1968. 136 *pp.* (Editors) 40 #2479

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 5 (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 5] *Izdat. "Mir", Moscow*, 1968. 150 *pp.* (Editors) 40 #4040

* Математика: Периодический сборник переводов иностранных статей. Том 12, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 12, No. 6] *Izdat. "Mir", Moscow*, 1968. 160 *pp.* (Editors) 40 #4041

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 1] *Izdat. "Mir", Moscow*, 1969. 144 *pp.* (Editors) 40 #4042

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 2] *Izdat. "Mir", Moscow*, 1969. 174 *pp.* (Editors) 40 #4043

* Математика: Периодический сборник переводов иностранных стасей. Том 13, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 6] *Izdat. "Mir", Moscow*, 1969. 174 *pp.* (Editors) 40 #7057

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 3] *Izdat. "Mir", Moscow*, 1969. 156 *pp.* (Editors) 40 #2480

* Математика: Периодический сборник перевонов иностранных статей. Том 13, Вып. 4. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 4] *Izdat. "Mir", Moscow*, 1969. 143 *pp.* (Editors) 40 #2481

* Математика: Периодический сборник переводов иностранных статей. Том 13, Вып. 5 (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 13, No. 5] *Izdat. "Mir", Moscow*, 1969. 151 *pp.* (Editors) 40 #2482

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 1. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 1] *Izdat. "Mir", Moscow*, 1970. 175 *pp.* (Editors) 40 #7058

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 2] *Izdat. "Mir", Moscow*, 1970. 159 *pp.* (Editors) 41 #3204

* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 3. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 3] *Izdat. "Mir", Moscow*, 1970. 128 *pp.* (Editors) 41 #3205

* Механика: Периодический сборник переводов иностранных статей. Том 21, Вып. 3 (121). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 3 (121)] *Izdat. "Mir", Moscow,* 1970. 149 *pp.* (Editors) 41 #5139
* Механика: Периодический сборник переводов иностранных стотей. Том 21, Вып. 5 (123). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 5 (123)] *Izdat. "Mir", Moscow,* 1970. 150 *pp.* (Editors) 42 #2902
* Механика: Периодический сборник переводов иностранных статей. Том 21, Вып. 6 (124). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 21, No. 6 (124)] *Izdat. "Mir", Moscow,* 1970. 136 *pp.* (Editors) 43 #6
* Математика: Периодический сборник переводов иностранных статей. Том 14, Вып. 6. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 14, No. 6] *Izdat. "Mir", Moscow,* 1970. 176 *pp.* (Editors) 44 #3817
* Механика: Периодический сборник переводов иностранных статей. Том 22, Вып. 2 (126). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 22, No. 2 (126)] *Izdat. "Mir", Moscow,* 1971. 157 *pp.* (Editors) 43 #1784
* Механика: Периодический сборник переводов иностранных статей. Том 22, Вып. 1 (125). (Russian) [Mechanics: Periodical collection of translations of foreign articles. Vol. 22, No. 1 (125)] *Izdat. "Mir", Moscow,* 1971. 152 *pp.* (Editors) 43 #1785
* Математика: Периодический сборник переводов иностранных статей. Том 15, Вып. 2. (Russian) [Mathematics: Periodical collection of translations of foreign articles. Vol. 15, No. 2] *Izdat. "Mir", Moscow,* 1971. 165 *pp.* (Editors) 43 #7277

Translations (AMS), index
* Index to translations selected by the American Mathematical Society. *American Mathematical Society, Providence, R. I.,* 1966. iii + 90 *pp.* (Editors) 33 #1186

Transport theory
* Transport theory. Proceedings of a Symposium in Applied Mathematics of the American Mathematical Society and the Society for Industrial and Applied Mathematics. Held in New York City, April 5-8, 1967. Edited by Richard Bellman, Garrett Birkhoff and Ibrahim Abu-Shumays. SIAM-AMS Proceedings, Vol. I. *American Mathematical Society, Providence, R. I.,* 1969. vii + 327 *pp.* (Editors) 40 #7062
* Вычислительные методы в теории переноса. (Russian) [Computing methods in transport theory] Proceedings of the First All-Union Symposium on Computing Methods in Transport Theory (Novosibirsk, 1967). Edited by G. I. Marčuk. *Atomizdat, Moscow,* 1969. 247 *pp.* (Editors) 43 #5846

Travaux du Colloque sur les Techniques de Calcul et les Calculateurs
* Les travaux du Colloque sur les Techniques de Calcul et les Calculateurs (Bucarest, 22-26 Septembre, 1967). Bull. Math. Soc. Sci. Math. R. S. Roumanie (N.S.) 12(60) (1968), no. 1. *Societatea Ştiinţe Matematice R. S. România, Bucharest,* 1968. 155 *pp.* (Editors) 38 #2919

Travaux du séminaire d'analyse unilatérale
* Travaux du séminaire d'analyse unilatérale. Vol. I, 1968. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 35. *Universite de Montpellier, Montpellier,* 1968. 104 *pp. (not consecutively paged)* (Editors) 41 #781
* Travaux du séminaire d'analyse unilatérale. Vol. II, 1969. Publiés sous la direction de J. J. Moreau. Secrétariat des Mathématiques de la Faculté des Sciences de Montpellier, 1968-1969, Publication No. 54. *Université de Montpellier, Montpellier,* 1969. 97 *pp. (not consecutively paged)* (Editors) 41 #782

Treasury of mathematics
* The treasury of mathematics. A collection of source material in mathematics edited and presented with introductory biographical and historical sketches. Edited by Henrietta O. Midonick. *Philosophical Library, New York,* 1965. xxi + 820 *pp.* (R. L. Wilder) 33 #3864

A treatise on the uniformity and difformity of intensities known as *Tractatus de configurationibus qualitatum et motuum*
* Nicole Oresme and the medieval geometry of qualities and motions. A treatise on the uniformity and difformity of intensities known as *Tractatus de configurationibus qualitatum et motuum.* Edited with an introduction, English translation, and commentary by Marshall Clagett. *The University of Wisconsin Press, Madison, Wis.-London,* 1968. xiii + 713 *pp.* (N. Swerdlow) 41 #3217

Trends in lattice theory
* Trends in lattice theory. Edited by J. C. Abbott. Symposium held at the United States Naval Academy in May of 1966. Van Nostrand Reinhold Mathematical Studies, No. 31. *Van Nostrand Reinhold Co., New York-Toronto, Ont.-London,* 1970. ix + 215 *pp.* (Editors) 42 #5863

Trudy Arhiva Akad. Nauk SSSR
* Рукописное наследие академика Алексея Николаевича Крылова. Научное описание. (Russian) [The manuscript legacy of academician Alekseĭ Nikolaevič Krylov. Scientific description] Edited by V. I. Smirnov. Compiled by M. N. Glagoleva, N. M. Raskin, N. G. Skrynskiĭ and L. M. Stolin. Trudy Arhiva Akad. Nauk SSSR, Vyp. 23. *Izdat. "Nauka", Leningrad. Otdel., Leningrad,* 1969. 333 *pp.* (1 *plate*) (From the introduction) 40 #2510

Trudy Fiz. Inst. Lebedev
* Programming and computer techniques in experimental physics. Edited by D. V. Skobel'cyn. Translated from the Russian. Proceedings (Trudy) of the P. N. Lebedev Physics Institute, Vol. 45. *Consultants Bureau, New York-London,* 1970. vi + 126 *pp.* (Editors) 41 #9464

Trudy Mat. Inst. Steklov., corrections
* Corrections and notes to the collection "Problems of the constructive direction in mathematics, part 2" in Trudy Mat. Inst. Steklov. 67 (1962). (Russian) *Trudy Mat. Inst. Steklov.* 72 (1964), 544-545. 32 #5514

Trudy respublikanskih konferenciĭ matematikov vysših učebnyh zavedeniĭ Gruzinskoĭ SSR
* Труды I и II Республиканских Конференций Математиков Высших Учебных Заведений Грузинской ССР (20 Октября 1960 года: 23-25 Ноября 1962 года). (Russian) [Proceedings of the First and Second National Conferences of Mathematicians in Institutions of Higher Learning in the Georgian SSR (October 20, 1960 and November 23-25, 1962)] *Izdat. "Codna", Tbilisi,* 1964. 294 *pp.* (Editors) 32 #1082

Turkin's functions
* Таблицы и формулы функций В. Н. Туркина $T_m^{(1)}(x,\alpha) = \sum_{n=-\infty}^{\infty} J_n(x)J_{n-m}(x)/n-\alpha$. (Russian) [Tables and formulas for Turkin's functions $T_m^{(1)}(x,\alpha) = \sum_{n=-\infty}^{\infty} J_n(x)J_{n-m}(x)/n-\alpha$]. *Ministerstvo Svjazi SSSR, Leningrad,* 1963. 91 *pp.* (John Todd) 32 #5927

Two-dimensional manifolds of bounded curvature
* Two-dimensional manifolds of bounded curvature. Edited by A. D. Aleksandrov and V. A. Zalgaller. Translated from the Russian by J. M. Danskin. Proceedings of the Steklov Institute of Mathematics, No. 76 (1965). *American Mathematical Society, Providence, R. I.,* 1967. iv + 183 *pp.* (Editors) 35 #6052

U. S. National Committee Report for Commission of URSI
* The U. S. National Committee Report for Commission 6 of URSI. Subcommission 6.3. Electromagnetics. *J. Res. Nat. Bur. Standards Sect. D* 68D (1964), 435-517. (Editors) 32 #2021

Udmurt State Pedagogical Institute
* Доклады и сообщения научных конференций физико-математического и естественного факультетов. (Russian) [Proceedings and reports of a scientific conference of the Faculties of Physics, Mathematics and Natural Science] Udmurt State Pedagogical Institute. *Izdat. "Udmurtija", Izhevsk,* 1965. 144 *pp.* (Editors) 36 #1253

Ukrainian mathematics
* Українська математична бібліографія (1917-1960). (Ukrainian) [Bibliography of Ukrainian mathematics (1917-1960)] Academy of Sciences of the Ukrainian SSR. Institute of Mathematics. *Vidavnictvo Akad. Nauk URSR, Kiev,* 1963. 382 *pp.* 35 #4067

Undecidable propositions, unsolvable problems and computable functions
* The undecidable. Basic papers on undecidable propositions, unsolvable problems and computable functions. Edited by Martin Davis. *Raven Press, Hewlett, N. Y.,* 1965. ii + 440 *pp.* (K. Appel) 32 #7412

Undergraduate program in computer science
An undergraduate program in computer science - preliminary recommendations. A report from the ACM curriculum committee on computer science. *Comm. ACM* 8 (1965), 543-552. 31 #4204

Unione Matematica Italiana
* Simposio internazionale sulle applicazioni dell'analisi alla fisica matematica. Quarantottesima Riunione della Società Italiana per il Progresso delle Scienze (Cagliari-Sassari, Settembre 28-Ottobre 4, 1964). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1965. viii + 263 *pp.* (Editors) 34 #7058
* Atti del Convegno su le Equazioni alle Derivate Parziali (Nervi, 25-27 Febbraio 1965). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni Cremonese, Rome,* 1966. v + 144 *pp.* (Editors) 33 #7725
* Atti del Convegno sulle Equazioni alle Derivate Parziali (Bologna, 22-24 aprile 1967). Edito dalla Unione Matematica Italiana con il contributo del Consiglio Nazionale delle Ricerche. *Edizioni "Oderisi", Gubbio,* 1967. iv + 188 *pp.* (Editors) 40 #6022

Universal algebra
* Proceedings of the Conference on Universal Algebra, October, 1969. Queen's Papers in Pure and Applied Mathematics, No. 25. *Queen's University, Kingston, Ont.,* 1970. v + 275 *pp.* (Editors) 41 #1625

University education in computing science

* University education in computing science. Proceedings of a conference on graduate academic and related research programs in computing science, held at the State University of New York at Stony Brook, June, 1967. Edited by Aaron Finerman. *Academic Press, New York-London,* 1968. xvi + 237 *pp.* 36 #2336

Unsolved problems

Unsolved problems. *Recent Progress in Combinatorics (Proc. Third Waterloo Conf. on Combinatorics,* 1968), *pp.* 341-347. *Academic Press, New York,* 1969. 40 #4129

Unsolved problems in the theory of groups

* Коуровская тетрадь. Нерешенные задачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups] Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1965. 18 *pp.* (F. L. Hardy) 34 #4339

* Коуровская тетрадь. Нерешенные задачи теории групп. (Russian) [Kourov notebook. Unsolved problems in the theory of groups] Second augmented edition. Academy of Sciences of the USSR. Siberian Branch. Institute of Mathematics. *Izdat. Sibirsk. Otdel. Akad. Nauk SSSR, Novosibirsk,* 1967. 36 *pp.* (Editors) 37 #1448

Unsolved problems in the theory of rings and modules

* Днестровская тетрадь: Нерешенные задачи теории колец и модулей. (Russian) [The Dniester notebook: Unsolved problems in the theory of rings and modules] First All-Union Symposium on the Theory of Rings and Modules (Kishinev, 1968). *Redakc.-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev,* 1969. 20 *pp.* (Editors) 40 #7294

Urkunden zur Geschichte der Mathematik im Mittelalter und der Renaissance

* Urkunden zur Geschichte der Mathematik im Mittelalter und der Renaissance. Teile I, II. Herausgegeben von Maximilian Curtze. First reprinting. Bibliotheca Mathematica Teubneriana, Band 45. *Johnson Reprint Corp., New York-London,* 1968. *Part I:* x + *pp.* 1-336; *Part II:* ii + *pp.* 337-627. (Editors) 40 #1238

Urkundensammlung zur Vorgeschichte der nichteuklidischen Geometrie

* Die Theorie der Parallellinien von Euklid bis auf Gauss. Eine Urkundensammlung zur Vorgeschichte der nichteuklidischen Geometrie. Herausgegeben von Paul Stäckel und Friedrich Engel. Reprint. Bibliotheca Mathematica Teubneriana, Band 41. *Johnson Reprint Corp., New York-London,* 1968. x + 325 *pp.* (4 *plates*) (Editors) 41 #25

Use of artificial satellites for geodesy

* The use of artificial satellites for geodesy. Proceedings of the First International Symposium on the Use of Artificial Satellites for Geodesy, Washington, D. C., April 26-28, 1962. Edited by G. Veis. *North-Holland Publishing Co., Amsterdam,* 1963. xi + 424 *pp.* (21 *plates*) (Editors) 29 #2079

V. I. Ul'janov-Lenin Kazan State University Science Survey Conference

* Итоговая научная конференция Казанского государственного университета имени В. И. Ульянова-Ленина за 1962 год. (Russian) [V. I. Ul'janov-Lenin Kazan State University science survey conference for the year 1962] Sections on mathematics, mathematical statistics and cybernetics, applied mathematics and mechanics. *Izdat. Kazan. Univ., Kazan,* 1963. 194 *pp.* (Editors) 32 #3980

Verhandlungen der Schweizerischen Naturforschenden Gesellschaft

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (146. Versammlung in Solothurn, 1966): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zürich,* 1966. 307 *pp.* (Editors) 37 #2560

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (147. Versammlung in Schaffhausen, 1967). *Kommissionsverlag Berichthaus, Zürich,* 1967. 205 *pp.* (Editors) 43 #7283

* Verhandlungen der Schweizerischen Naturforschenden Gesellschaft (149. Versammlung in St. Gallen, 1969): Wissenschaftlicher Teil. *Kommissionsverlag Berichthaus, Zurich,* 1969. 303 *pp.* (Editors) 42 #5744

Vestnik Kiev. Univ.

* Вестник Киевского Университета: Специальный выпуск научных статей ученых Киевского и Лейпзигского Университетов. (Russian) [Bulletin of the Kiev University: Special issue of scientific papers by scientists of the Kiev and Leipzig Universities] *Izdat. Kiev, Univ., Kiev,* 1967. 167 *pp.* (Editors) 35 #1424

Vibrations. Gyroscopics

* Колебания. Гироскопия. Теория механисмов. Механика жидкости и газа. Труды II всесоюзного съезда по теоретической и прикладной механике (29 января-5 февраля 1964 г.). Обзорные доклады. Вып. II. (Russian) [Vibrations. Gyroscopics. Theory of mechanisms. Mechanics of fluids and gases. Proceedings of the Second All-Union Conference on Theoretical and Applied Mechanics (January 29-February 5, 1964). Survey Reports. Vol. II] Academy of Sciences of the USSR. National Committee of the USSR for Theoretical and Applied Mechanics. Executive editor L. I. Sedov. Volume edited by A. I. Lur'e, G. K. Mihaĭlov and A. P. Proskurjakov. *Izdat. "Nauka", Moscow,* 1965. 306 *pp. (errata insert)* (Editors) 34 #2b

Views on general systems theory

* Views on general systems theory. Proceedings of the Second Systems Symposium at Case Institute of Technology (1963). Edited by Mihajlo D. Mesarović. *John Wiley & Sons, Inc., New York-London-Sydney,* 1964. xvii + 178 *pp.* (Editors) 34 #8861

Vorträge der 3. Tagung über Probleme und Methoden der Mathematischen Physik

* Vorträge der 3. Tagung über Probleme und Methoden der Mathematischen Physik. Heft 1, 2. *Technische Hochschule Karl-Marx-Stadt, Karl-Marx-Stadt,* 1966. *Vol. I:* ii + 220 *pp. Vol. II:* ii + 239 *pp. (loose errata)* (Editors) 36 #6249

Vorträge der II. Ungarischen Biometrischen Konferenz

* Vorträge der II. Ungarischen Biometrischen Konferenz (Budapest, vom 19. bis 22. März 1968). Herausgegeben von I. Juvancz. *Akadémiai Kiadó, Budapest,* 1970. 487 *pp.* 43 #4215

Walsh functions

* Applications of Walsh functions. 1970 Proceedings (31 March-3 April): Symposium and Workshop, held at Naval Research Laboratory, Washington, D. C. Edited by C. A. Bass. *Naval Research Laboratory, Washington, D. C.; University of Maryland, College Park, Md.,* 1970. viii + 274 *pp.* (Editors) 42 #1623

Wave diffraction

* Третий Всесоюзный Симпозиум по Дифракции Волн (Тбилиси, 24-30 сентября 1964 г.). (Russian) [Third All-Union Symposium on Wave Diffraction (Tbilisi, September 24-30, 1964)] Abstracts of papers. *Izdat. "Nauka", Moscow,* 1964. 245 *pp.* (Editors) 32 #755

Wave processes

* Проблемы математической физикии. Вып. I. спектралкная теория и волновые процессы. (Russian) [Problems of mathematical physics. No. I. Spectral theory and wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1966. 133 *pp. (errata insert)* (Editors) 34 #2393

* Проблемы математической физики. Вып. 4. Спектральная теория. Волновые процессы. (Russian) [Problems of mathematical physics. No. 4. Spectral theory. Wave processes] Edited by M. Š. Birman. *Izdat. Leningrad. Univ., Leningrad,* 1970. 135 *pp. (errata)* (Editors) 42 #2198

Weak interactions

* Symposium on weak interactions (Balatonvilágos, 31 May-5 June, 1966). Organized by the Roland Eötvös Physical Society. Supported by the Hungarian Academy of Sciences. Acta Physica Acad. Sci. Hungaricae, Tomus XXII. *Akadémiai Kiadó, Budapest,* 1967. 387 *pp.* (Editors) 35 #1278

Weak interactions of elementary particles

* Теоретическая физика и физика и физика элементарных частиц. Слабое взаимодействие элементарных частиц. (Russian) [Theoretical physics and elementary particle physics. Weak interaction of elementary particles] Itogi Nauki. *Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1965. 194 *pp. (errata insert)* (Editors) 34 #2285

Weak interactions and higher symmetries

* Weak interactions and higher symmetries. Proceedings of the Third Internationale Hochschulwochen für Kernphysik 1964 der Karl-Franzens-Universität Graz, at Schladming (Steiermark, Austria) 24th February-7th March 1964. Edited by Paul Urban. Acta Physica Austriaca, Supplementum I. *Springer-Verlag, Vienna-New York,* 1964. iv + 255 *pp.* (P. Roman) 34 #2288

Whittaker functions

(See Korobočkin, B. I.; Filippov, Ju. A., 32 #5926)

WHO Symposium on Quantitative Epidemiology

WHO Symposium on Quantitative Epidemiology, Moscow, 23-27 November 1970. *Advances in Appl. Probability* 3 (1971), 193-228. (Editors) 44 #5129

William of Sherwood's *Introduction to logic*

* William of Sherwood's *Introduction to logic.* Translated from the Latin with an introduction and notes by Norman Kretzmann. *University of Minnesota Press, Minneapolis, Minn.,* 1966. xiii + 187 *pp.* 34 #4101

Winter School in the Theory of Probability and Mathematical Statistics

* Зимная школа по теории вероятностей и математической статистике, г. Ужгород, 1964. (Russian) [Winter school in the theory of probability and mathematical statistics, held in Užgorod, 1964] *Izdat. Akad. Nauk Ukrain. SSR, Kiev,* 1964. 263 *pp.* (Editors) 31 #2740

The works of scientific investigators at Voronezh State University

* Труды научных сотрудников Воронежского государственного университета: Библиографический указатель 1954-1961. (Russian) [The works of scientific investigators at Voronezh State University: Bibliography 1954-1961] *Izdat. Voronež. Univ., Voronezh,* 1967. 262 *pp. (errata insert)* (Editors) 39 #6

Works of Young Scientists

* Труды молодых Ученых (Выпуск математический). (Russian) [Works of Young Scientists (Mathematical part)] Proceedings of the Conference of Young Saratov Scientists. *Izdat. Saratov. Univ., Saratov*, 1964. 123 *pp.* (Editors) 32 #1083

Young Moldavian scientists in the battle for the acceleration of scientific and technological progress

* Молодые ученые Молдавии в борьбе за ускорение научно-технического прогрвсса. (Russian) [Young Moldavian scientists in the battle for the acceleration of scientific and technological progress] Abstracts of papers presented at the Seventh Conference of Young Moldavian Scientists. *Redakcionno-Izdat. Otdel Akad. Nauk Moldav. SSR, Kishinev*, 1970. 171 *pp.* (Editors) 42 #4355

Young scientists of the Lithuanian SSR

* Научная конференция молодых ученых Литовской ССР, работающих в области физики, математики и кибернетики, посвященная 50-летию Великой Октябрьской Социалистической Революции (6-8 декабря 1967 гада). (Russian) [A scientific conference of young scientists of the Lithuanian SSR, working in the domain of physics, mathematics and cybernetics, dedicated to the fiftieth anniversary of the great October socialist revolution (December 6-8, 1967)] *Akad. Nauk Litovsk SSR, Vilnjus*, 1967. 360 *pp.* (Editors) 37 #1214

Zygmunt Butlewski on his sixtieth birthday

To Zygmunt Butlewski on his sixtieth birthday. (Polish) *Zeszyty Nauk. Politech. Poznań. No.* 42 (1967), 1-8. (Editors) 42 #25

SUPPLEMENT

Sacks, Gerald E.

F-recursiveness. *Logic Colloquium '69 (Proc. Summer School and Colloq., Manchester,* 1969), *pp.* 289-303. *North-Holland, Amsterdam,* 1971. (L. E. Sanchis) 43 #6097

Šahov, Ju. N.

The calculation of integrals of increasing multiplicity. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 5 (1965), *no.* 5, 911-916. (A. Peyerimhoff) 33 #8119

Samokiš, B. A.

On the stability of an abstract Galerkin method. (Russian. English summary) *Vestnik Leningrad. Univ. Ser. Mat. Meh. Astronom.* 19 (1964), *no.* 1, 160-162. (A. S. Householder) 29 #2961

Sankoff, David

(with Dawson, D. A.) An inequality for probabilities. *Proc. Amer. Math. Soc.* 18 (1967), 504-507. (J. R. Blum) 35 #2305

Schaafsma, Willem

Most stringent and maximin tests as solutions of linear programming problems. *Z. Wahrscheinlichkeitstheorie und Verw. Gebiete* 14 (1969/70), 290-307. (W. E. Strawderman) 43 #4175

Segre, B.

Teoria di Galois, fibrazioni proiettive e geometrie non desarguesiane. *Ann. Mat. Pura Appl.* (4) 64 (1964), 1-76. (E. Morgantini) 29 #6370

Serrin, James B., Jr.

(with Meyers, Norman G.) $H = W$. *Proc. Nat. Acad. Sci. U.S.A.* 51 (1964), 1055-1056. (R. R. Phelps) 29 #1551

Šestopal, A. F.

(with Mangeron, D.; Mateescu, Lil.) Contributions to the study of Green's functions. II. Problem of the uniqueness of the inversion of the Schwarz-Christoffel integral for simply connected rectilinear polygons. (Romanian) *Stud. Cerc. Mat.* 17 (1965), 215-226. (Editors) 36 #4861

Simonenko, I. B.

Singular integral equations with continuous and piecewise continuous symbol. (Russian) *Dokl. Akad. Nauk SSSR* 159 (1964), 279-282. (J. L. B. Cooper) 31 #5100

Singh, Surendra Pratap

(with Sinha, B. B.) A generalization of Gauss and Codazzi equations for Berwald's curvature tensor. *Tensor (N.S.)* 22 (1971), 112-116. (E. Bompiani) 43 #5472

Šneperman, L. B.

Semigroups of continuous transformations of closed sets of the number axis. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1965, *no.* 6 (49), 166-175. (M. A. Geraghty) 33 #3246

Šragin, I. V.

Variants of the Radon-Nikodým theorem. (Russian) *Comment. Math. Univ. Carolinae* 11 (1970), 657-665. (J. Lukeš) 43 #7577

Spaces generated by genfunctions. (Russian) *Dokl. Akad. Nauk SSSR* 193 (1970), 53-56. (B. T. Poljak) 42 #3561

Fixed points of many-valued mappings. (Russian) *Trudy Tambov. Inst. Him. Mašinostroenija Vyp.* 4 (1970), 27-33. (E. Asplund) 42 #3635

Conditions for the measurability of superpositions. (Russian) *Dokl. Akad. Nauk SSSR* 197 (1971), 295-298. (T. Neubrunn) 43 #3413

Sragovič, V. G.

On the numerical solution of the Cauchy problem for linear second-order equations of parabolic type. (Russian) *Ž. Vyčisl. Mat. i Mat. Fiz.* 4 (1964), 592-596. (G. Maruyama) 30 #724

* (with Buslenko, N. P.; Golenko, D. I.; Šreĭder, Ju. A.; Sobol', I. M.) The Monte Carlo method. The method of statistical trials. Edited by Ju. A. Šreĭder. Translated from the Russian by G. J. Tee. Translation edited by D. M. Parkyn. International Series of Monographs in Pure and Applied Mathematics, Vol. 87. *Pergamon Press, Oxford-New York-Paris,* 1966. xii + 381 *pp.* (*loose errata*). (Editors) 35 #2455

Standley, Gerald B.

Two arithmetical techniques with numbered classes. *J. Symbolic Logic* 27 (1962), 437-438. (J. R. Büchi) 31 #3313

Stepanov, S. A.

Elementary method in the theory of congruences for a prime modulus. *Acta Arith.* 17 (1970), 231-247. (W. Ljunggren) 42 #4552

Stubberud, Allen R.

(with Seal, C. E.) Canonical forms for multiple-input time-variable systems. *IEEE Trans. Automatic Control* AC-14 (1969), 704-707. (Authors' summary) 42 #8972

(with Simon, K. W.) Reduced order Kalman filter. *Internat. J. Control* (1) 10 (1969), 501-509. (Authors' summary) 40 #3988

(with Simon, K. W.) Duality of linear estimation and control. *J. Optimization Theory Appl.* 6 (1970), 55-67. (G. M. Ewing) 41 #9088

Studden, William J.

(with Karlin, Samuel) Optimal experimental designs. *Ann. Math Statist.* 37 (1966), 783-815. (J. Kiefer) 33 #5055

On selecting a subset of k populations containing the best. *Ann. Math. Statist.* 38 (1967), 1072-1078. (M. H. Rizvi) 36 #3448

Optimal designs on Tchebycheff points. *Ann. Math. Statist.* 39 (1968), 1435-1447. (J. Kiefer) 37 #7050

(with Chow, Y. S.) On the monotonicity of $E_p(S_t/t)$. *Ann. Math. Statist.* 39 (1968), 1755. (E. G. Kimme) 38 #2828

(with Chow, Y. S.) Monotonicity of the variance under truncation and variations of Jensen's inequality. *Ann. Math. Statist.* 40 (1969), 1106-1108. (I. J. Good) 39 #2246

A generalization of Bernstein's theorem and a differential inversion formula. *Trans. Amer. Math. Soc.* 142 (1969), 81-92. (I. Fenyő) 39 #7351

(with Van Arman, D. J.) Admissible designs for polynomial spline regression. *Ann. Math. Statist.* 40 (1969), 1557-1569. (M. Atiqullah) 40 #2195

(with Gupta, Shanti S.) On some selection and ranking procedures with applications to multivariate populations. *Essays in Probability and Statistics, pp.* 327-338. *Univ. of North Carolina Press, Chapel Hill, N. C.,* 1970. (E. J. Dudewicz) 42 #5381

Studencov, G. I.

A correction to: "On the projective differential geometry of a pair of surfaces". *Ukrain. Geometr. Sb. Vyp.* 2 (1966), 135. (Editors) 35 #2221

Sundaresan, Kondagunta

Uniformly non-$l_n^{(1)}$ Orlicz spaces. *Israel J. Math.* 3 (1965), 139-146. (R. C. James) 33 #3082

On the strict and uniform convexity of certain Banach spaces. *Pacific J. Math.* 15 (1965), 1083-1086. (H. Nakano) 32 #4522

Smooth Banach spaces. *Bull. Amer. Math. Soc.* 72 (1966), 520-521. (J. L. B. Cooper) 32 #8117

Uniformly non-square Orlicz spaces. *Nieuw Arch. Wisk.* (3) 14 (1966), 31-39. (W. A. J. Luxemburg) 33 #1717

Orlicz spaces isomorphic to strictly convex spaces. *Proc. Amer. Math. Soc.* 17 (1966), 1353-1356. (W. A. J. Luxemburg) 34 #601

Smooth Banach spaces. *Math. Ann.* 173 (1967), 191-199. (R. Bonic) 36 #1960

(with Mizel, Victor J.) Banach sequence spaces. *Arch. Math. (Basel)* 19 (1968), 59-69. (W. J. Davis) 36 #6909

(with Mizel, V. J.) Representation of additive and biadditive functionals. *Arch. Rational Mech. Anal.* 30 (1968), 102-126. (R. H. Cox) 37 #3341

Extreme points of the unit cell in Lebesgue-Bochner function spaces. I. *Proc. Amer. Math. Soc.* 23 (1969), 179-184. (N. T. Peck) 40 #719 (E)

Additive functionals on Orlicz spaces. *Studia Math.* 32 (1969), 269-276. (S. Heckscher) 40 #1765

(with Mizel, V. J.) Additive functionals on spaces with non-absolutely-continuous norm. *Bull. Acad. Polon. Sci. Sér. Sci. Math. Astronom. Phys.* 18 (1970), 385-389. (T. T. Long) 42 #3557

Extreme points of the unit cell in Lebesgue-Bochner function spaces. *Colloq. Math.* 22 (1970), 111-119. (N. T. Peck) 43 #2493

Errata: "Extreme points of the unit cell in Lebesgue-Bochner function spaces. I." *Proc. Amer. Math. Soc.* 25 (1970), 922. (Editors) 41 #4222

(with Mizel, Victor J.) Representation of vector valued nonlinear functions. *Trans. Amer. Math. Soc.* 159 (1971), 111-127. (T. Figiel) 43 #5368

Extreme points of the unit cell in Lebesgue-Bochner function spaces. I. *Proc. Amer. Math. Soc.* 23 (1969), 179-184. (N. T. Peck) 40 #719

Extreme points of the unit cell in Lebesgue-Bochner function spaces. *Colloq. Math.* 22 (1970), 111-119. (N. T. Peck) 43 #2493

Errata: "Extreme points of the unit cell in Lebesgue-Bochner function spaces. I." *Proc. Amer. Math. Soc.* 25 (1970), 922. (Editors) 41 #4222

Šutov, È. G.

Certain imbeddings of ordered semigroups. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1968, *no.* 8 (75), 103-112. (S. Bandyopadhyay) 38 #4380

Szybiak, Andrzej

A certain geometric interpretation of the Cauchy-Riemann equation. (Russian) *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. No.* 9 (1963), 87-88. (G. Biriuk) 33 #4854

Takahashi, Iwarô

Variable separation principle for mathematical programming. *J. Operations Res. Soc. Japan* 6 (1963/64), 82-105. (P. Mevert) 30 #3768

A note on the conjugate gradient method. *Information Processing in Japan* 5 (1965), 45-49. (J. M. Ortega) 38 #4026

Takens, Floris

(with Ruelle, David) On the nature of turbulence. *Comm. Math. Phys.* 20 (1971), 167-192. (J. Moser) 44 #1297

Tallini Scafati, Maria

Métrique hermitienne elliptique dans un espace projectif quaternionien. *Ann. Univ. Sci. Budapest. Eötvös Sect. Math.* 7 (1964), 109-112. (G. Panella) 31 #1595

Tanno, Shûkichi

The automorphism groups of almost contact Riemannian manifolds. *Tohoku Math. J.* (2) 21 (1969), 21-38. (K. Takano) 39 #3428

Hypersurfaces satisfying a certain condition on the Ricci tensor. *Tôhoku Math. J.* (2) 21 (1969), 297-303. (H. D. Pande) 41 #6121

Targhetta, Maria Luisa

(with Castoldi, L.) Complementi a due teoremi di Loève e di Nash attorno ai lemmi di Borel-Cantelli. (French summary) *Rend. Sem. Fac. Sci. Univ. Cagliari* 39 (1969), 227-233. (M. Iosifescu) 41 #4618

Tinsley, P. A.

An application of variable weight distributed lags. *J. Amer. Statist. Assoc.* 62 (1967), 1277-1289. (G. Tinter) 36 #3570

Tolstov, Georgi, P.

Three types of abstract integrals. (Russian) *Dokl. Akad. Nauk SSSR* 158 (1964), 536-539. (L. Sucheston) 30 #2118

Tovmasjan, N. E.

The Dirichlet problem for an elliptic system of two second order differential equations. *Outlines Joint Sympos. Partial Differential Equations (Novosibirsk, 1963), pp. 274-280. Acad. Sci. USSR Siberian Branch, Moscow,* 1963. (R. S. Freeman) 36 #5524

Treger R.

Cyclic flat modules. (Russian) *Mat. Zametki* 8 (1970), 245-250. (Chr. U. Jensen) 43 #273

Tutaj, Edward

Note on a problem of K. Borsuk. *Zeszyty Nauk. Uniw. Jagiello. Prace Mat. Zeszyt* 13 (1969), 113-115. (H. Noguchi) 40 #1972

Vagner, V. V.

On the theory of regular binary relations between elements of partial operatives. (Russian) *Izv. Vysš. Učebn. Zaved. Matematika* 1967, *no.* 4 (59), 26-39. (B. M. Schein (Šaĭn)) 35 #1533

Varde, S. D.

(with Sathe, Y. S.) On minimum variance unbiased estimation of reliability. *Ann. Math. Statist.* 40 (1969), 710-714. (Benjamin Epstein) 39 #1064

Varšamov, R. R.

Bounds on the number of signals in codes with correction of non-symmetric errors. (Russian) *Avtomat. i Telemeh.* 25 (1964), 1628-1629. (S. Kotz) 30 #2956

Mathematical methods for improving the reliability of real communication systems. (Russian) *Bull. Math. Soc. Sci. Math. Phys. R. P. Roumaine* 8(56) (1964), 307-315. (S. Kotz) 34 #5564

A theorem in the theory of reducibility of polynomials. (Russian) *Dokl. Akad. Nauk SSSR* 156 (1964), 1308-1311. (P. Constantinescu) 33 #1304

Vasić, Petar, M.

(with Đorđević, R. Ž.) Sur l'équation fonctionnelle cyclique généralisée. *Univ. Beograd. Publ. Elektrotehn. Fak. Ser. Mat. Fiz. No.* 132-142 (1965), 33-38. (J. Aczél) 32 #4421

Venugopal Rao, V.

Normal families of harmonic functions. (Russian) *Mat. Zametki* 3 (1968), 547-552. (N. Boboc) 37 #3027; erratum, 38, p. 1377

Vidav, Ivan

Existence and uniqueness of nonnegative eigenfunctions of the Boltzmann operator. *J. Math. Anal. Appl.* 22 (1968), 144-155. (P. Nelson, Jr.) 37 #6093

Waelbroeck, Lucien

* (with Bingen, Franz; Tits, Jacques) Séminaire sur les Algèbres de Banach, 1962/63. Centre Belge d'Algèbre et de Topologie. *Universite Libre de Bruxelles Faculte des Sciences, Institut de Mathematique, Brussels,* 1963. i + 145 *pp.* (A. B. Simon) 30 #5173

Wagner, Klaus

Eine Klasse minimaler, nicht plättbarer Graphen. *Math. Ann.* 187 (1970), 104-113. (R. C. Read) 42 #1705

Wagner, N. R.

On a boundary value problem arising in stochastic diffusion problems. *SIAM J. Appl. Math.* 17 (1969), 430-433. (H. Bunke) 40 #4558

Walsh, B. J.

(with Loeb, Peter A.) An axiomatic approach to the boundary theories of Wiener and Royden. *Bull. Amer. Math. Soc.* 74 (1968), 1004-1007. (R. M. Hervé) 38 #2330

Webb, J. H.

Perturbation theory for a linear operator. *Proc. Cambridge Philos. Soc.* 63 (1967), 11-20. (S. Goldberg) 34 #3340

Linear operators with closed range. *Proc. Cambridge Philos. Soc.* 64 (1968), 1009-1010. (S. Goldberg) 37 #5708

Completeness and strong completeness in locally convex spaces. *J. London Math. Soc.* (2) 1 (1969), 767-768. (K. Floret) 40 #1754

Whitehead, Barbara

(See Mathematical works of J. H. C. Whitehead, 30 #4667a)

Zykov, A. A.

The theory of graphs. (Russian) *Itogi Nauki (Algebra. Topology. 1962), pp. 188-223. Akad. Nauk SSSR Inst. Naučn. Informacii, Moscow,* 1963. (Editors) 29 #5235

Allerton Conference on Circuit and System Theory

* Proceedings Third Annual Allerton Conference on Circuit and System Theory. Edited by M. E. Van Valkenburg. Conference held October 20, 21, 22, 1965, Allerton House, Monticello, Ill. Sponsored by the Department of Electrical Engineering and the Coordinated Science Laboratory of the University of Illinois, Urbana, Ill., and the Circuit Theory Group of the Institute of Electrical & Electronics Engineers. *University of Illinois, Urbana, Ill.,* 1965. xii + 929 *pp.* (Editors) 39 #6664

Bibliography

* La mia vita di matematico attraverso la cronistoria dei miei lavori. (Bibliografia commentata 1916-1967). *CEDAM (Cass Editrice Dott. Antonio Milani), Padova,* 1967. xii + 172 *pp.* (H. C. Kennedy) 43 #20

Colloques Internationaux du Centre National de la Recherche Scientifique

* Les théories relativistes de la gravitation (Royaumont, 21-27 juin 1959). Colloques Internationaux du Centre National de la Recherches Scientifique, KCI. *Éditions du Centre National de la Recherche Scientifique, Paris,* 1962. 475 *pp.* (F. A. E. Pirani) 29 #1992

Mathematical works of J. H. C. Whitehead

* The mathematical works of J. H. C. Whitehead. Vol. I: Differential geometry. Edited by I. M. James. With a biographical note by M. H. A. Newman and Barbara Whitehead and a mathematical appreciation by John W. Milnor. *Pergamon Press, Oxford-New York-Paris,* 1962. xxxiii + 361 *pp.* (Editors) 30 #4667a

* The mathematical works of J. H. C. Whitehead. Vol. II: Complexes and manifolds. Edited by I. M. James. *Pergamon Press, Oxford-New York-Paris,* 1962. xiii + 435 *pp.* (Editors) 30 #4667b

* The mathematical works of J. H. C. Whitehead. Vol. III: Homotopy theory. Edited by I. M. James. *Pergamon Press, Oxford-New York-Paris,* 1962. xiii + 451 *pp.* (Editors) 30 #4667c

* The mathematical works of J. H. C. Whitehead. Vol. IV: Algebraic and classical topology. Edited by I. M. James. A Pergamon Press Book. *The Macmillan Co., New York,* 1963. xiii + 347 *pp.* (1 *plate*) (Editors) 30 #4667d

Obituary

Samarendra Nath Roy: 1906-1964. *Calcutta Statist. Assoc. Bull.* 14 (1965), 1-8. (Editors) 32 #1111

Aleksandr Aleksandrovič Harkevič. (Russian) *Problemy Peredači Informacii* 1 (1965), *vyp.* 1, 125-126. (Editors) 32 #1110

Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad

* Boundary value problems of mathematical physics and related aspects of function theory. Part I. Edited by V. P. Il′in. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 5. *Consultants Bureau, New York,* 1969. vii + 96 *pp.* (Editors) 39 #1257

* Studies in constructive mathematics and mathematical logic. Part I. Edited by A. O. Slisenko. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 4. *Consultants Bureau, New York,* 1969. viii + 88 *pp.* (Editors) 39 #2595

* Isoperimetric inequalities in the theory of surfaces of bounded external curvature. Translated from the Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 10. *Consultants Bureau, New York-London,* 1970. vi + 99 *pp.* (Editors) 43 #2645

* Convex polyhedra with regular faces. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 2. *Consultants Bureau, New York,* 1969. vi + 95 *pp.* (Editors) 39 #2064

* Kinematic spaces. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 6. *Consultants Bureau, New York-London,* 1970. viii + 185 *pp.* (Editors) 41 #9555

* Potential theory and function theory for irregular regions. Translated from Russian. Seminars in Mathematics, V. A. Steklov Mathematical Institute, Leningrad, Vol. 3. *Consultants Bureau, New York,* 1969. vii + 68 *pp.* (Editors) 39 #1633